

Table 8. AMINO ACID PROFILE

(All values are expressed in g per 100g protein)

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Lucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------------------|--|----------------|-----------|------------|------------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| A CEREALS AND MILLETS | | | | | | | | | | | | |
| A001 | Amaranth seed, black (<i>Amaranthus cruentus</i>) | 1 | 1.86 | 2.82 | 4.83 | 5.45 | 1.86 | 1.60 | 3.98 | 3.02 | 1.50 | 4.34 |
| A002 | Amaranth seed, pale brown (<i>Amaranthus cruentus</i>) | 6 | 1.98±0.50 | 2.85±0.04 | 4.94±0.17 | 5.50±0.35 | 1.95±0.12 | 1.51±0.15 | 4.75±0.41 | 2.99±0.21 | 1.69±0.10 | 4.30±0.27 |
| A003 | Bajra (<i>Pennisetum typhoideum</i>) | 6 | 2.15±0.37 | 3.45±0.74 | 8.52±0.86 | 3.19±0.49 | 2.11±0.50 | 1.23±0.33 | 4.82±1.18 | 3.55±0.40 | 1.33±0.30 | 4.79±1.04 |
| A004 | Barley (<i>Hordeum vulgare</i>) | 6 | 2.13±0.23 | 3.63±0.40 | 6.49±0.41 | 3.42±0.19 | 1.86±0.04 | 2.20±0.27 | 4.88±0.44 | 3.30±0.14 | 1.28±0.07 | 4.78±0.49 |
| A005 | Jowar (<i>Sorghum vulgare</i>) | 6 | 2.07±0.20 | 3.45±0.63 | 12.03±1.51 | 2.31±0.40 | 1.52±0.50 | 1.06±0.30 | 5.10±0.50 | 2.96±0.17 | 1.03±0.21 | 4.51±0.71 |
| A006 | Maize, dry (<i>Zea mays</i>) | 6 | 2.70±0.21 | 3.67±0.22 | 12.24±0.57 | 2.64±0.18 | 2.10±0.17 | 1.55±0.14 | 5.14±0.29 | 3.23±0.29 | 0.57±0.12 | 5.41±0.71 |
| A007 | Maize, tender, local (<i>Zea mays</i>) | 6 | 2.15±0.47 | 3.55±0.21 | 10.09±1.65 | 2.02±0.39 | 1.67±0.06 | 1.18±0.32 | 3.95±1.15 | 2.97±0.42 | 0.58±0.07 | 3.54±0.37 |
| A008 | Maize, tender, sweet (<i>Zea mays</i>) | 4 | 2.16±0.18 | 3.45±0.08 | 10.61±0.71 | 2.06±0.17 | 1.76±0.09 | 1.36±0.15 | 3.05±0.21 | 2.88±0.53 | 0.70±0.05 | 3.88±0.29 |
| A009 | Quinoa(<i>Chenopodium quinoa</i>) | 1 | 2.98 | 3.75 | 6.08 | 5.55 | 2.24 | 1.85 | 4.35 | 3.01 | 1.25 | 4.55 |
| A010 | Ragi (<i>Eleusine coracana</i>) | 5 | 2.37±0.46 | 3.70±0.44 | 8.86±0.54 | 2.83±0.34 | 2.74±0.27 | 1.48±0.23 | 5.70±1.27 | 3.84±0.45 | 0.91±0.30 | 5.65±0.44 |
| A011 | Rice flakes (<i>Oryza sativa</i>) | 6 | 2.28±0.10 | 3.62±0.79 | 8.05±0.64 | 3.62±0.27 | 2.11±0.51 | 1.65±0.47 | 5.22±0.24 | 3.17±0.40 | 1.11±0.13 | 5.40±1.23 |
| A012 | Rice puffed (<i>Oryza sativa</i>) | 6 | 2.11±0.13 | 3.68±0.88 | 7.75±0.47 | 3.14±0.21 | 2.00±0.32 | 1.34±0.13 | 5.33±0.27 | 3.03±0.44 | 1.07±0.29 | 5.37±1.33 |
| A013 | Rice, raw, brown (<i>Oryza sativa</i>) | 6 | 2.36±0.18 | 4.08±0.51 | 8.40±0.55 | 3.63±0.29 | 2.39±0.26 | 2.02±0.12 | 5.50±0.49 | 3.38±0.25 | 1.00±0.17 | 6.72±0.36 |
| A014 | Rice, parboiled, milled (<i>Oryza sativa</i>) | 6 | 2.35±0.18 | 4.14±0.08 | 8.08±0.06 | 3.42±0.10 | 2.48±0.24 | 2.15±0.08 | 5.14±0.10 | 3.24±0.12 | 1.15±0.06 | 6.26±0.13 |
| A015 | Rice, raw, milled (<i>Oryza sativa</i>) | 6 | 2.45±0.30 | 4.29±0.23 | 8.09±0.40 | 3.70±0.39 | 2.60±0.34 | 1.84±0.18 | 5.36±0.43 | 3.28±0.27 | 1.27±0.14 | 6.06±0.02 |
| A016 | Samai (<i>Panicum miliare</i>) | 6 | 2.35±0.18 | 4.14±0.08 | 8.08±0.06 | 2.42±0.10 | 2.21±0.10 | 1.85±0.14 | 6.14±0.10 | 4.24±0.12 | 1.35±0.10 | 5.31±0.16 |
| A017 | Varagu (<i>Setaria italica</i>) | 5 | 2.14±0.07 | 4.55±0.22 | 11.96±1.65 | 1.42±0.17 | 2.69±0.16 | 1.92±0.05 | 6.27±0.34 | 3.89±0.16 | 1.32±0.19 | 5.49±0.23 |
| A018 | Wheat flour, refined (<i>Triticum aestivum</i>) | 6 | 1.95±0.23 | 3.19±0.27 | 6.22±0.46 | 2.05±0.18 | 1.64±0.20 | 2.03±0.27 | 4.29±0.28 | 2.34±0.08 | 1.04±0.16 | 4.01±0.44 |
| A019 | Wheat flour, atta (<i>Triticum aestivum</i>) | 6 | 2.56±0.25 | 3.78±0.21 | 6.13±0.48 | 2.42±0.22 | 1.77±0.08 | 2.24±0.18 | 5.03±0.14 | 2.58±0.14 | 0.99±0.16 | 5.12±0.48 |

Table 8. AMINO ACID PROFILE

(All values are expressed in g per 100g protein)

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------------------|--|----------------|------------|-----------|---------------|---------------|-----------|------------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| A CEREALS AND MILLETS | | | | | | | | | | |
| A001 | Amaranth seed, black (<i>Amaranthus cruentus</i>) | 1 | 4.26 | 7.77 | 12.57 | 16.12 | 8.50 | 3.76 | 7.79 | 2.85 |
| A002 | Amaranth seed, pale brown (<i>Amaranthus cruentus</i>) | 6 | 3.83±0.64 | 7.21±0.91 | 12.70±2.25 | 17.39±1.68 | 8.28±0.35 | 3.83±0.45 | 7.27±0.46 | 3.10±0.34 |
| A003 | Bajra (<i>Pennisetum typhoideum</i>) | 6 | 7.68±1.01 | 4.54±0.62 | 7.77±1.29 | 17.42±1.69 | 3.52±0.17 | 5.30±0.26 | 4.44±0.41 | 2.67±0.51 |
| A004 | Barley (<i>Hordeum vulgare</i>) | 6 | 4.20±0.79 | 5.22±0.20 | 6.51±0.61 | 26.75±1.15 | 4.03±0.61 | 9.79±0.87 | 4.80±0.55 | 2.68±0.41 |
| A005 | Jowar (<i>Sorghum vulgare</i>) | 6 | 9.19±1.12 | 3.96±0.43 | 7.09±0.86 | 21.54±2.81 | 3.08±0.25 | 6.99±0.92 | 4.02±0.43 | 3.61±0.25 |
| A006 | Maize, dry (<i>Zea mays</i>) | 6 | 7.73±0.46 | 4.20±0.24 | 6.55±0.59 | 19.39±0.70 | 3.27±0.15 | 7.88±0.71 | 4.58±0.44 | 3.71±0.18 |
| A007 | Maize, tender, local (<i>Zea mays</i>) | 6 | 9.90±5.07 | 3.05±0.42 | 9.24±1.45 | 20.05±2.14 | 4.50±2.09 | 7.91±0.97 | 6.07±0.91 | 3.15±0.37 |
| A008 | Maize, tender, sweet (<i>Zea mays</i>) | 4 | 7.61±0.20 | 3.63±0.21 | 8.55±1.21 | 18.72±1.81 | 4.65±0.37 | 8.60±0.11 | 5.62±0.12 | 3.26±0.22 |
| A009 | Quinoa(<i>Chenopodium quinoa</i>) | 1 | 4.35 | 7.85 | 8.40 | 13.75 | 4.80 | 5.67 | 4.56 | 1.98 |
| A010 | Ragi (<i>Eleusine coracana</i>) | 5 | 6.71±0.80 | 4.33±0.48 | 6.40±0.53 | 20.22±0.73 | 3.59±0.35 | 5.42±0.42 | 4.81±0.57 | 3.37±0.80 |
| A011 | Rice flakes (<i>Oryza sativa</i>) | 6 | 6.34±0.96 | 7.62±0.40 | 9.20±0.82 | 18.60±1.02 | 4.35±0.30 | 4.27±0.36 | 4.78±0.93 | 3.75±0.51 |
| A012 | Rice puffed (<i>Oryza sativa</i>) | 6 | 6.19±1.01 | 7.04±0.50 | 8.79±1.05 | 17.96±0.97 | 4.03±0.39 | 4.04±0.55 | 4.62±0.55 | 4.13±0.54 |
| A013 | Rice, raw, brown (<i>Oryza sativa</i>) | 6 | 6.60±0.75 | 7.69±0.37 | 8.68±0.46 | 18.75±1.03 | 4.28±0.19 | 4.33±0.39 | 4.64±0.62 | 4.36±0.36 |
| A014 | Rice, parboiled, milled (<i>Oryza sativa</i>) | 6 | 5.60±0.10 | 7.95±0.10 | 8.51±0.29 | 19.22±0.24 | 4.19±0.14 | 4.04±0.10 | 4.60±0.09 | 4.43±0.09 |
| A015 | Rice, raw, milled (<i>Oryza sativa</i>) | 6 | 5.51±0.40 | 7.72±0.55 | 8.73±0.80 | 18.92±1.76 | 4.18±0.16 | 4.31±0.78 | 4.95±0.21 | 4.36±0.41 |
| A016 | Samai (<i>Panicum miliare</i>) | 6 | 8.60±0.10 | 5.96±0.11 | 5.51±0.29 | 20.22±0.24 | 3.43±0.33 | 6.04±0.10 | 5.60±0.09 | 3.43±0.09 |
| A017 | Varagu (<i>Setaria italica</i>) | 5 | 11.00±0.36 | 3.18±0.19 | 5.61±0.88 | 18.25±1.87 | 3.12±0.29 | 7.33±0.53 | 5.50±0.31 | 3.87±0.38 |
| A018 | Wheat flour, refined (<i>Triticum aestivum</i>) | 6 | 2.98±0.37 | 3.49±0.28 | 4.63±0.39 | 31.57±1.80 | 3.21±0.20 | 9.23±0.64 | 4.77±0.39 | 2.62±0.15 |
| A019 | Wheat flour, atta (<i>Triticum aestivum</i>) | 6 | 3.88±1.11 | 4.70±0.21 | 5.06±0.16 | 29.61±2.08 | 3.76±0.56 | 10.27±0.84 | 4.73±0.49 | 2.10±0.06 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|------------------------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| A020 | Wheat, whole (<i>Triticum aestivum</i>) | 6 | 2.65±0.31 | 3.83±0.20 | 6.81±0.33 | 3.13±0.26 | 1.75±0.21 | 2.35±0.23 | 4.75±0.38 | 3.01±0.17 | 1.40±0.10 | 5.11±0.05 |
| A021 | Wheat, bulgur (<i>Triticum aestivum</i>) | 6 | 2.23±0.25 | 3.48±0.28 | 6.61±0.66 | 2.42±0.10 | 1.62±0.36 | 1.96±0.05 | 4.46±2.10 | 2.46±0.34 | 1.11±0.15 | 4.28±0.25 |
| A022 | Wheat, semolina (<i>Triticum aestivum</i>) | 6 | 2.38±0.27 | 3.43±0.26 | 6.71±0.59 | 2.54±0.13 | 1.57±0.23 | 1.79±0.03 | 4.77±0.32 | 2.71±0.15 | 1.04±0.12 | 4.47±0.39 |
| A023 | Wheat, vermicelli (<i>Triticum aestivum</i>) | 6 | 1.76±0.11 | 1.56±0.56 | 5.23±1.23 | 1.83±0.04 | 1.17±0.14 | 1.83±0.02 | 4.90±1.74 | 2.26±0.16 | 1.07±0.09 | 3.54±1.35 |
| A024 | Wheat, vermicelli, roasted (<i>Triticum aestivum</i>) | 6 | 1.63±0.23 | 1.46±0.13 | 5.63±0.24 | 1.54±0.30 | 1.15±0.08 | 1.85±0.08 | 4.96±2.06 | 2.25±0.28 | 0.99±0.14 | 3.71±0.24 |
| B GRAIN LEGUMES | | | | | | | | | | | | |
| B001 | Bengal gram, dal (<i>Cicer arietinum</i>) | 6 | 2.39±0.34 | 4.25±0.26 | 6.91±0.65 | 6.06±0.52 | 1.12±0.31 | 0.84±0.14 | 5.97±1.06 | 3.24±0.34 | 1.09±0.25 | 4.09±0.41 |
| B002 | Bengal gram, whole (<i>Cicer arietinum</i>) | 6 | 2.51±0.18 | 4.34±0.23 | 7.40±0.31 | 6.59±0.25 | 1.16±0.16 | 1.27±0.09 | 6.26±0.70 | 3.55±0.31 | 0.95±0.07 | 4.58±0.51 |
| B003 | Black gram, dal (<i>Phaseolus mungo</i>) | 6 | 2.64±0.11 | 3.75±0.92 | 7.93±0.45 | 6.22±0.21 | 1.31±0.35 | 0.49±0.04 | 5.68±0.91 | 2.99±0.19 | 1.07±0.12 | 4.61±1.06 |
| B004 | Black gram, whole (<i>Phaseolus mungo</i>) | 6 | 2.85±0.08 | 3.42±0.82 | 7.58±0.62 | 6.35±0.53 | 1.17±0.38 | 0.58±0.12 | 5.90±0.38 | 2.87±0.63 | 0.98±0.14 | 4.11±0.88 |
| B005 | Cowpea, brown (<i>Vigna catjang</i>) | 6 | 2.93±0.42 | 4.10±0.58 | 7.49±1.23 | 6.67±1.26 | 1.38±0.16 | 0.57±0.09 | 5.47±0.49 | 3.80±0.61 | 1.05±0.03 | 4.87±0.59 |
| B006 | Cowpea, white (<i>Vigna catjang</i>) | 1 | 3.25 | 4.40 | 7.96 | 7.14 | 1.53 | 0.60 | 5.63 | 4.10 | 0.92 | 5.31 |
| B007 | Field bean, black (<i>Phaseolus vulgaris</i>) | 1 | 3.21 | 4.57 | 8.91 | 6.79 | 1.36 | 0.59 | 5.88 | 4.12 | 0.73 | 5.24 |
| B008 | Field bean, brown (<i>Phaseolus vulgaris</i>) | 1 | 3.23 | 4.59 | 8.88 | 6.75 | 1.38 | 0.52 | 5.72 | 3.97 | 0.78 | 5.16 |
| B009 | Field bean, white (<i>Phaseolus vulgaris</i>) | 5 | 2.82±0.76 | 4.41±0.36 | 8.48±0.66 | 6.13±0.68 | 1.40±0.18 | 0.57±0.09 | 5.76±0.32 | 3.97±0.31 | 0.89±0.07 | 4.96±0.36 |
| B010 | Green gram, dal (<i>Phaseolus aureus</i>) | 6 | 2.55±0.26 | 4.07±1.11 | 7.90±0.99 | 6.09±1.06 | 1.05±0.23 | 0.43±0.10 | 6.20±0.61 | 3.36±0.60 | 1.24±0.42 | 5.21±1.28 |
| B011 | Green gram, whole (<i>Phaseolus aureus</i>) | 6 | 2.85±0.26 | 4.17±0.37 | 7.45±0.50 | 6.60±0.33 | 1.21±0.20 | 0.74±0.03 | 6.21±0.39 | 3.20±0.18 | 1.02±0.14 | 5.45±0.37 |
| B012 | Horse gram, whole (<i>Dolichus biflorus</i>) | 6 | 2.70±0.28 | 3.72±0.83 | 6.79±0.81 | 6.24±0.57 | 0.73±0.30 | 0.75±0.19 | 8.08±0.60 | 3.32±0.10 | 1.08±0.25 | 4.16±0.96 |
| B013 | Lentil dal (<i>Lens culinaris</i>) | 6 | 1.93±0.32 | 3.74±0.91 | 7.10±0.86 | 6.12±0.71 | 0.54±0.19 | 0.55±0.07 | 5.10±0.73 | 3.31±0.24 | 0.81±0.07 | 5.02±0.39 |
| B014 | Lentil whole, brown (<i>Lens culinaris</i>) | 6 | 2.07±0.14 | 4.17±0.05 | 7.36±0.34 | 6.78±0.51 | 0.84±0.03 | 1.18±0.04 | 4.61±0.68 | 3.35±0.05 | 0.76±0.04 | 4.85±0.06 |
| B015 | Lentil whole, yellowish (<i>Lens culinaris</i>) | 2 | 2.26 | 4.12 | 7.47 | 6.43 | 0.84 | 1.06 | 4.67 | 3.49 | 0.75 | 4.75 |

Table 8. Amino Acid Profile

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------------|---|----------------|-----------|-----------|---------------|---------------|-----------|------------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| A020 | Wheat, whole (<i>Triticum aestivum</i>) | 6 | 3.64±0.21 | 5.13±0.33 | 5.44±0.33 | 27.06±1.76 | 4.19±0.23 | 10.25±1.49 | 4.80±0.14 | 3.12±0.31 |
| A021 | Wheat, bulgur (<i>Triticum aestivum</i>) | 6 | 3.48±0.42 | 5.36±0.54 | 5.15±0.19 | 30.48±5.06 | 4.27±0.19 | 10.49±0.52 | 4.87±0.17 | 2.46±1.23 |
| A022 | Wheat, semolina (<i>Triticum aestivum</i>) | 6 | 3.46±0.35 | 4.34±0.20 | 4.94±0.21 | 31.05±1.75 | 3.50±0.11 | 9.49±0.84 | 4.44±0.67 | 3.00±0.24 |
| A023 | Wheat, vermicelli (<i>Triticum aestivum</i>) | 6 | 3.59±0.13 | 2.98±0.43 | 5.39±0.97 | 31.96±1.20 | 4.54±1.77 | 9.89±1.65 | 5.33±0.62 | 2.18±0.76 |
| A024 | Wheat, vermicelli, roasted (<i>Triticum aestivum</i>) | 6 | 3.74±0.55 | 2.84±0.49 | 4.78±0.75 | 34.08±0.60 | 4.35±0.47 | 9.43±0.72 | 5.35±0.41 | 1.92±0.82 |
| B GRAIN LEGUMES | | | | | | | | | | |
| B001 | Bengal gram, dal (<i>Cicer arietinum</i>) | 6 | 4.11±0.36 | 8.83±0.53 | 11.73±0.80 | 16.52±0.10 | 3.46±0.24 | 3.53±0.25 | 4.56±0.45 | 2.72±0.29 |
| B002 | Bengal gram, whole (<i>Cicer arietinum</i>) | 6 | 4.67±0.56 | 8.59±0.58 | 11.78±1.60 | 17.27±1.08 | 3.95±0.16 | 3.74±0.19 | 5.10±0.65 | 2.88±0.15 |
| B003 | Black gram, dal (<i>Phaseolus mungo</i>) | 6 | 4.73±0.57 | 6.25±0.47 | 11.96±0.71 | 18.38±1.37 | 3.38±0.26 | 3.73±0.28 | 5.54±0.61 | 3.04±0.23 |
| B004 | Black gram, whole (<i>Phaseolus mungo</i>) | 6 | 4.64±0.82 | 6.06±0.49 | 13.12±1.60 | 19.00±1.10 | 3.80±0.41 | 4.03±0.13 | 5.29±0.69 | 3.06±0.17 |
| B005 | Cowpea, brown (<i>Vigna catjang</i>) | 6 | 4.24±0.57 | 7.10±1.36 | 10.11±1.15 | 19.02±2.19 | 4.69±0.51 | 4.60±0.28 | 4.44±0.18 | 2.83±0.26 |
| B006 | Cowpea, white (<i>Vigna catjang</i>) | 1 | 5.06 | 7.44 | 11.01 | 18.20 | 4.09 | 4.05 | 4.80 | 3.25 |
| B007 | Field bean, black (<i>Phaseolus vulgaris</i>) | 1 | 5.47 | 7.49 | 10.47 | 17.14 | 4.74 | 4.43 | 5.76 | 4.00 |
| B008 | Field bean, brown (<i>Phaseolus vulgaris</i>) | 1 | 5.37 | 7.71 | 10.07 | 17.28 | 4.25 | 4.43 | 5.61 | 3.85 |
| B009 | Field bean, white (<i>Phaseolus vulgaris</i>) | 5 | 5.19±0.37 | 7.01±0.73 | 10.61±0.60 | 16.59±2.32 | 4.04±0.28 | 4.24±0.31 | 5.51±0.40 | 3.84±0.21 |
| B010 | Green gram, dal (<i>Phaseolus aureus</i>) | 6 | 4.59±0.33 | 6.51±0.58 | 12.10±2.16 | 17.43±2.22 | 3.70±0.53 | 3.67±0.67 | 5.01±0.53 | 2.95±0.44 |
| B011 | Green gram, whole (<i>Phaseolus aureus</i>) | 6 | 4.94±0.77 | 6.62±0.30 | 10.99±0.94 | 18.59±1.15 | 3.78±0.39 | 4.07±0.49 | 5.50±0.82 | 2.83±0.27 |
| B012 | Horse gram, whole (<i>Dolichus biflorus</i>) | 6 | 4.60±0.75 | 5.87±0.27 | 11.24±1.19 | 18.54±1.69 | 4.03±0.34 | 3.72±0.34 | 5.19±0.75 | 3.18±0.26 |
| B013 | Lentil dal (<i>Lens culinaris</i>) | 6 | 4.45±0.70 | 7.92±0.44 | 12.69±1.67 | 18.31±0.61 | 3.67±0.26 | 3.63±0.31 | 4.90±0.64 | 2.95±0.21 |
| B014 | Lentil whole, brown (<i>Lens culinaris</i>) | 6 | 5.75±0.61 | 7.44±2.06 | 12.48±1.70 | 17.25±1.68 | 4.78±0.08 | 5.01±1.49 | 5.51±0.21 | 2.40±0.77 |
| B015 | Lentil whole, yellowish (<i>Lens culinaris</i>) | 2 | 5.59 | 7.74 | 12.93 | 16.48 | 4.89 | 4.50 | 5.68 | 2.81 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|---------------------------------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| B016 | Moth bean (<i>Vigna aconitifolia</i>) | 6 | 2.80±0.29 | 4.17±0.57 | 7.85±0.73 | 6.63±0.60 | 0.97±0.20 | 0.43±0.06 | 5.85±0.70 | 3.63±0.11 | 0.92±0.04 | 4.90±0.47 |
| B017 | Peas, dry (<i>Pisum sativum</i>) | 6 | 2.34±0.09 | 3.87±0.46 | 7.02±0.38 | 7.12±0.51 | 0.68±0.19 | 0.82±0.15 | 4.76±0.23 | 3.65±0.15 | 0.86±0.19 | 4.67±0.66 |
| B018 | Rajmah, black (<i>Phaseolus vulgaris</i>) | 2 | 2.44 | 3.91 | 6.84 | 6.01 | 0.79 | 0.72 | 5.32 | 3.91 | 1.22 | 4.83 |
| B019 | Rajmah, brown (<i>Phaseolus vulgaris</i>) | 6 | 2.71±0.22 | 4.27±0.50 | 7.93±0.43 | 6.67±0.18 | 0.97±0.26 | 0.62±0.21 | 5.91±0.56 | 4.35±0.21 | 1.04±0.13 | 5.21±0.69 |
| B020 | Rajmah, red (<i>Phaseolus vulgaris</i>) | 3 | 2.70±0.30 | 4.23±0.38 | 7.78±0.71 | 6.71±0.81 | 0.88±0.40 | 0.70±0.18 | 5.90±0.56 | 4.18±0.65 | 1.05±0.27 | 5.07±0.71 |
| B021 | Red gram, dal (<i>Cajanus cajan</i>) | 6 | 3.16±0.27 | 3.42±0.43 | 6.73±0.56 | 6.16±0.28 | 0.87±0.22 | 0.67±0.12 | 8.76±1.02 | 3.26±0.17 | 0.71±0.11 | 4.38±0.30 |
| B022 | Red gram, whole (<i>Cajanus cajan</i>) | 6 | 3.28±0.13 | 3.38±0.49 | 6.88±0.48 | 7.07±0.37 | 0.92±0.32 | 0.91±0.07 | 8.71±0.82 | 3.38±0.21 | 0.75±0.17 | 4.17±0.65 |
| B023 | Ricebean (<i>Vigna umbellata</i>) | 1 | 3.23 | 3.80 | 7.86 | 6.75 | 1.12 | 1.02 | 7.56 | 3.52 | 0.82 | 5.23 |
| B024 | Soya bean, brown (<i>Glycine max</i>) | 6 | 2.40±0.28 | 4.57±0.33 | 8.27±0.17 | 7.67±0.11 | 1.46±0.11 | 1.56±0.08 | 4.73±0.77 | 3.47±0.17 | 1.59±0.26 | 5.04±0.59 |
| B025 | Soya bean, white (<i>Glycine max</i>) | 1 | 2.55 | 4.59 | 8.14 | 7.18 | 1.55 | 1.44 | 5.01 | 3.88 | 1.68 | 5.53 |
| C GREEN LEAFY VEGETABLES | | | | | | | | | | | | |
| C001 | Agathi leaves (<i>Sesbania grandiflora</i>) | 1 | 2.39 | 2.80 | 7.58 | 7.62 | 1.28 | 0.85 | 6.03 | 5.39 | 1.77 | 5.99 |
| C002 | Amaranth leaves, green (<i>Amaranthus gangeticus</i>) | 6 | 2.12±0.35 | 4.39±0.65 | 8.04±0.79 | 5.48±0.35 | 1.38±0.06 | 0.82±0.14 | 5.68±0.65 | 4.16±0.36 | 1.01±0.08 | 5.03±0.82 |
| C003 | Amaranth leaves, red (<i>Amaranthus gangeticus</i>) | 1 | 2.01 | 4.31 | 8.20 | 5.58 | 1.63 | 0.96 | 4.77 | 4.04 | 1.20 | 5.24 |
| C004 | Amaranth leaves, red and green (<i>Amaranthus gangeticus</i>) | 4 | 2.15±0.15 | 4.33±1.25 | 8.40±0.89 | 5.26±1.33 | 1.44±0.39 | 1.06±0.22 | 5.88±0.10 | 4.39±0.60 | 1.08±0.11 | 4.98±1.37 |
| C005 | Amaranth spinosus, leaves, green (<i>Amaranthus spinosus</i>) | 4 | 1.95±0.24 | 4.05±0.18 | 7.66±0.48 | 4.99±0.15 | 1.25±0.03 | 0.71±0.09 | 5.00±0.82 | 4.40±0.30 | 0.89±0.21 | 4.18±1.06 |
| C006 | Amaranth spinosus, leaves, red and green (<i>Amaranthus spinosus</i>) | 2 | 1.90 | 3.03 | 7.57 | 4.74 | 1.10 | 0.75 | 4.34 | 4.44 | 1.17 | 4.12 |
| C007 | Basella leaves (<i>Basella alba</i>) | 2 | 2.20 | 3.30 | 7.68 | 5.16 | 0.90 | 0.79 | 4.17 | 4.01 | 1.88 | 3.88 |
| C008 | Bathua leaves (<i>Chenopodium album</i>) | 2 | 1.76 | 4.83 | 8.99 | 3.77 | 1.77 | 0.89 | 5.73 | 4.95 | 1.08 | 6.07 |
| C009 | Beet greens (<i>Beta vulgaris</i>) | 6 | 1.59±0.16 | 2.62±0.14 | 5.17±0.20 | 4.34±0.65 | 0.76±0.24 | 0.92±0.06 | 3.63±0.05 | 3.76±0.40 | 0.82±0.15 | 4.27±0.07 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|---|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | <div style="text-align:center;">←————— g —————→</div> | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| B016 | Moth bean (<i>Vigna aconitifolia</i>) | 6 | 5.00±0.42 | 7.68±0.76 | 10.54±0.81 | 16.89±1.33 | 3.68±0.31 | 3.95±0.48 | 5.04±0.38 | 2.92±0.37 |
| B017 | Peas, dry (<i>Pisum sativum</i>) | 6 | 4.51±0.44 | 8.09±0.30 | 11.34±0.72 | 17.52±0.81 | 4.19±0.16 | 3.73±0.19 | 4.83±0.38 | 3.25±0.19 |
| B018 | Rajmah, black (<i>Phaseolus vulgaris</i>) | 2 | 4.68 | 5.81 | 12.96 | 18.89 | 3.42 | 3.23 | 5.10 | 3.10 |
| B019 | Rajmah, brown (<i>Phaseolus vulgaris</i>) | 6 | 4.59±0.34 | 5.96±0.25 | 11.35±0.95 | 16.60±0.73 | 3.90±0.12 | 3.63±0.27 | 5.81±0.44 | 3.24±0.14 |
| B020 | Rajmah, red (<i>Phaseolus vulgaris</i>) | 3 | 4.57±0.53 | 6.10±0.85 | 10.50±0.85 | 16.01±2.17 | 3.78±0.49 | 3.40±0.58 | 5.74±0.90 | 3.12±0.37 |
| B021 | Red gram, dal (<i>Cajanus cajan</i>) | 6 | 4.49±0.87 | 5.87±0.34 | 10.26±1.05 | 21.50±1.33 | 3.23±0.18 | 3.94±0.53 | 4.26±0.43 | 2.32±0.25 |
| B022 | Red gram, whole (<i>Cajanus cajan</i>) | 6 | 4.35±0.41 | 5.98±0.33 | 10.41±0.95 | 20.27±0.94 | 3.33±0.25 | 3.93±0.47 | 4.40±0.41 | 2.54±0.25 |
| B023 | Ricebean (<i>Vigna umbellata</i>) | 1 | 4.76 | 5.58 | 10.12 | 17.32 | 4.28 | 4.20 | 4.83 | 3.12 |
| B024 | Soya bean, brown (<i>Glycine max</i>) | 6 | 4.32±0.61 | 6.62±0.50 | 11.47±1.19 | 18.27±1.26 | 3.79±0.31 | 4.40±0.20 | 4.91±0.66 | 3.21±0.30 |
| B025 | Soya bean, white (<i>Glycine max</i>) | 1 | 4.33 | 7.33 | 11.40 | 16.78 | 3.89 | 3.24 | 4.62 | 3.32 |
| | | | | | | | | | | |
| C | GREEN LEAFY VEGETABLES | | | | | | | | | |
| C001 | Agathi leaves (<i>Sesbania grandiflora</i>) | 1 | 7.22 | 4.58 | 10.61 | 15.78 | 5.47 | 4.63 | 4.44 | 3.76 |
| C002 | Amaranth leaves, green <i>(Amaranthus gangeticus)</i> | 6 | 6.55±0.66 | 6.10±0.49 | 9.22±0.71 | 12.75±1.46 | 5.59±0.53 | 4.45±0.43 | 4.62±0.28 | 3.69±0.38 |
| C003 | Amaranth leaves, red <i>(Amaranthus gangeticus)</i> | 1 | 6.56 | 5.83 | 9.14 | 12.86 | 5.12 | 4.07 | 4.50 | 3.01 |
| C004 | Amaranth leaves, red and green <i>(Amaranthus gangeticus)</i> | 4 | 7.89±0.65 | 6.61±1.05 | 9.91±1.40 | 13.04±2.34 | 5.93±0.67 | 4.93±0.67 | 4.89±0.15 | 3.76±0.13 |
| C005 | Amaranth spinosus, leaves, green <i>(Amaranthus spinosus)</i> | 4 | 8.42±1.34 | 5.78±0.81 | 10.87±1.05 | 11.77±0.21 | 6.10±0.48 | 5.39±0.71 | 5.29±0.33 | 3.43±0.40 |
| C006 | Amaranth spinosus, leaves, red and green <i>(Amaranthus spinosus)</i> | 2 | 8.34 | 5.40 | 9.74 | 11.98 | 6.10 | 5.31 | 5.23 | 3.42 |
| C007 | Basella leaves (<i>Basella alba</i>) | 2 | 7.42 | 5.18 | 9.22 | 12.97 | 5.71 | 4.83 | 4.61 | 3.44 |
| C008 | Bathua leaves (<i>Chenopodium album</i>) | 2 | 6.52 | 5.04 | 10.04 | 13.68 | 7.18 | 4.72 | 4.16 | 3.98 |
| C009 | Beet greens (<i>Beta vulgaris</i>) | 6 | 6.19±0.32 | 2.91±0.50 | 6.91±0.71 | 12.10±0.67 | 4.25±0.13 | 3.96±0.13 | 3.76±0.52 | 2.96±0.20 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | g | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| C010 | Betel leaves, big (kolkata) (<i>Piper betle</i>) | 6 | 0.80±0.09 | 2.05±0.26 | 7.87±0.65 | 2.30±0.41 | 0.72±0.17 | 0.42±0.26 | 4.58±1.11 | 4.25±0.60 | 1.00±0.45 | 3.46±0.36 |
| C011 | Betel leaves, small (<i>Piper betle</i>) | 4 | 0.81±0.03 | 2.59±1.26 | 7.86±1.60 | 2.27±0.13 | 0.76±0.23 | 0.38±0.10 | 4.73±1.81 | 4.57±0.42 | 0.69±0.18 | 3.93±1.61 |
| C012 | Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>) | 1 | 1.79 | 3.58 | 5.04 | 3.50 | 1.34 | 0.67 | 3.23 | 4.30 | 0.93 | 4.74 |
| C013 | Cabbage, Chinese (<i>Brassica rupa</i>) | 1 | 1.97 | 5.72 | 5.69 | 5.78 | 1.06 | 0.94 | 3.27 | 4.01 | 1.24 | 5.40 |
| C014 | Cabbage, collard greens (<i>Brassica oleracea</i> var. <i>viridis</i>) | 1 | 1.62 | 3.81 | 6.67 | 3.62 | 1.11 | 0.91 | 4.56 | 4.04 | 1.24 | 5.64 |
| C015 | Cabbage, green (<i>Brassica oleracea</i> var. <i>capitata</i> f. <i>alba</i>) | 6 | 1.56±0.36 | 3.56±0.61 | 5.31±0.79 | 3.12±0.88 | 1.06±0.22 | 0.90±0.23 | 2.56±0.64 | 3.76±0.56 | 0.93±0.04 | 4.83±1.23 |
| C016 | Cabbage, violet (<i>Brassica oleracea</i> var. <i>capitata</i> f. <i>rubra</i>) | 2 | 1.62 | 3.56 | 5.31 | 2.85 | 0.85 | 0.63 | 2.21 | 2.67 | 0.82 | 5.47 |
| C017 | Cauliflower leaves (<i>Brassica oleracea</i> var. <i>botrytis</i>) | 6 | 1.88±0.19 | 3.37±0.16 | 5.36±0.29 | 4.01±0.08 | 0.99±0.09 | 0.68±0.04 | 4.16±0.41 | 4.01±0.04 | 1.12±0.34 | 4.93±0.38 |
| C018 | Colocasia leaves, green (<i>Colocasia anti-quorum</i>) | 6 | 3.40±1.66 | 3.51±1.02 | 7.45±0.50 | 4.26±0.62 | 1.79±0.48 | 1.07±0.30 | 4.43±0.74 | 4.53±0.25 | 1.01±0.30 | 4.64±1.52 |
| C019 | Drumstick leaves (<i>Moringa oleifera</i>) | 3 | 2.06±0.21 | 3.10±1.17 | 6.70±0.59 | 4.38±0.29 | 0.92±0.17 | 0.75±0.04 | 6.45±0.58 | 3.75±0.47 | 1.27±0.23 | 4.38±1.28 |
| C020 | Fenugreek leaves (<i>Trigonella foenum graecum</i>) | 5 | 2.40±0.23 | 4.47±0.55 | 7.50±0.63 | 5.88±1.09 | 1.28±0.10 | 0.74±0.19 | 5.52±0.23 | 4.90±0.61 | 0.99±0.13 | 6.27±0.60 |
| C021 | Garden cress (<i>Lepidium sativum</i>) | 2 | 1.42 | 4.51 | 9.23 | 4.54 | 1.95 | 0.67 | 4.72 | 4.95 | 1.26 | 6.17 |
| C022 | Gogu leaves, green (<i>Hibiscus cannabinus</i>) | 4 | 2.61±0.11 | 3.64±0.79 | 7.60±0.37 | 5.61±0.26 | 1.31±0.11 | 0.73±0.13 | 5.04±0.28 | 4.63±0.16 | 1.07±0.25 | 4.55±1.16 |
| C023 | Gogu leaves, red (<i>Hibiscus cannabinus</i>) | 1 | 2.72 | 4.34 | 8.60 | 6.03 | 1.76 | 0.86 | 5.65 | 5.10 | 1.04 | 6.02 |
| C024 | Knol-Khol, leaves (<i>Brassica oleracea</i> var. <i>gongylodes</i>) | 2 | 1.96 | 4.31 | 7.20 | 4.27 | 1.37 | 0.95 | 4.93 | 4.45 | 1.05 | 5.70 |
| C025 | Lettuce (<i>Lactuca sativa</i>) | 3 | 1.74±0.19 | 3.49±1.44 | 6.90±1.45 | 5.22±0.37 | 0.95±0.37 | 0.87±0.10 | 3.61±1.49 | 4.50±0.57 | 1.23±0.41 | 4.95±0.58 |
| C026 | Mustard leaves (<i>Brassica juncea</i>) | 3 | 1.91±0.23 | 3.22±0.15 | 6.57±0.01 | 5.42±0.34 | 0.74±0.09 | 1.02±0.13 | 3.53±0.67 | 4.08±0.57 | 1.31±0.14 | 3.52±0.43 |
| C027 | Pak Choi leaves (<i>Brassica rapa</i> var. <i>Chinensis</i>) | 1 | 2.48 | 3.78 | 7.98 | 6.26 | 1.96 | 1.12 | 5.89 | 5.03 | 1.23 | 5.67 |
| C028 | Parsley (<i>Petroselinum crispum</i>) | 3 | 1.76±0.16 | 4.78±0.24 | 7.82±0.82 | 5.75±0.86 | 1.32±0.13 | 0.87±0.05 | 5.31±0.39 | 4.91±0.39 | 1.68±0.06 | 6.19±0.33 |
| C029 | Ponnaganni (<i>Alternanthera sessilis</i>) | 2 | 1.87 | 4.89 | 8.77 | 5.01 | 1.58 | 0.93 | 5.41 | 5.35 | 1.18 | 5.95 |
| C030 | Pumpkin leaves, tender (<i>Cucurbita maxima</i>) | 6 | 1.63±0.53 | 5.27±0.07 | 8.85±0.22 | 4.90±0.17 | 0.99±0.27 | 0.85±0.07 | 6.40±0.12 | 4.52±0.30 | 1.76±0.05 | 5.82±0.11 |

Table 8. Amino Acid Profile

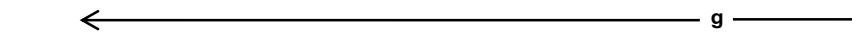
| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|---|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| C010 | Betel leaves, big (kolkata) (<i>Piper betle</i>) | 6 | 8.68±0.82 | 4.94±0.51 | 12.59±0.61 | 13.33±1.59 | 7.50±1.22 | 5.43±0.79 | 6.16±0.69 | 3.48±0.27 |
| C011 | Betel leaves, small (<i>Piper betle</i>) | 4 | 7.61±1.58 | 4.59±0.57 | 11.69±0.47 | 12.99±1.39 | 7.88±1.42 | 5.13±0.87 | 6.21±0.96 | 3.37±0.28 |
| C012 | Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>) | 1 | 4.63 | 7.63 | 12.36 | 20.82 | 4.54 | 8.89 | 5.45 | 2.37 |
| C013 | Cabbage, Chinese (<i>Brassica rupa</i>) | 1 | 6.37 | 5.84 | 10.84 | 21.42 | 3.82 | 3.76 | 5.82 | 2.05 |
| C014 | Cabbage, collard greens (<i>Brassica oleracea</i> var. <i>viridis</i>) | 1 | 7.68 | 4.32 | 11.13 | 21.91 | 5.61 | 5.35 | 4.20 | 2.78 |
| C015 | Cabbage, green (<i>Brassica oleracea</i> var. <i>capitata</i> f. <i>alba</i>) | 6 | 6.26±0.95 | 4.57±1.62 | 10.55±1.92 | 26.30±5.17 | 3.24±0.74 | 3.98±0.85 | 4.02±0.76 | 2.11±0.29 |
| C016 | Cabbage, violet (<i>Brassica oleracea</i> var. <i>capitata</i> f. <i>rubra</i>) | 2 | 6.17 | 4.67 | 11.53 | 28.60 | 3.04 | 4.34 | 4.22 | 2.29 |
| C017 | Cauliflower leaves (<i>Brassica oleracea</i> var. <i>botrytis</i>) | 6 | 6.82±0.41 | 5.89±0.88 | 11.76±1.28 | 22.09±2.64 | 3.96±0.14 | 4.63±0.51 | 5.14±0.16 | 0.77±0.99 |
| C018 | Colocasia leaves, green (<i>Colocasia anti-quorum</i>) | 6 | 9.40±2.53 | 5.84±0.43 | 8.55±3.08 | 15.25±1.91 | 4.66±0.50 | 5.01±0.18 | 4.52±0.32 | 3.78±0.21 |
| C019 | Drumstick leaves (<i>Moringa oleifera</i>) | 3 | 7.18±0.84 | 5.56±0.61 | 11.94±1.80 | 16.87±2.55 | 4.60±0.17 | 4.00±0.37 | 4.79±0.55 | 2.87±0.23 |
| C020 | Fenugreek leaves (<i>Trigonella foenum graecum</i>) | 5 | 6.06±1.35 | 5.45±0.97 | 13.48±2.09 | 11.12±2.92 | 5.21±0.45 | 4.92±0.89 | 3.94±0.88 | 3.55±0.26 |
| C021 | Garden cress (<i>Lepidium sativum</i>) | 2 | 7.15 | 4.41 | 12.48 | 15.70 | 5.79 | 5.06 | 4.00 | 3.50 |
| C022 | Gogu leaves, green (<i>Hibiscus cannabinus</i>) | 4 | 7.30±1.61 | 6.04±0.39 | 11.78±1.43 | 12.63±0.43 | 5.17±0.45 | 4.31±0.14 | 4.88±0.63 | 3.40±0.19 |
| C023 | Gogu leaves, red (<i>Hibiscus cannabinus</i>) | 1 | 6.79 | 6.92 | 12.21 | 12.82 | 5.57 | 4.69 | 4.79 | 3.80 |
| C024 | Knol-Khol, leaves (<i>Brassica oleracea</i> var. <i>gongylodes</i>) | 2 | 6.76 | 5.30 | 10.33 | 18.00 | 5.31 | 5.39 | 4.48 | 2.90 |
| C025 | Lettuce (<i>Lactuca sativa</i>) | 3 | 6.51±1.32 | 4.77±0.70 | 11.32±1.55 | 16.10±3.52 | 5.68±0.33 | 4.51±0.41 | 3.80±1.00 | 3.00±0.57 |
| C026 | Mustard leaves (<i>Brassica juncea</i>) | 3 | 6.60±0.38 | 5.74±1.04 | 10.86±1.05 | 18.67±1.11 | 5.31±0.37 | 4.65±0.63 | 5.11±0.53 | 3.21±0.17 |
| C027 | Pak Choi leaves(<i>Brassica rapa</i> var. <i>Chinensis</i>) | 1 | 5.86 | 6.58 | 9.58 | 12.86 | 4.87 | 4.76 | 4.61 | 3.48 |
| C028 | Parsley (<i>Petroselinum crispum</i>) | 3 | 7.18±0.42 | 4.53±0.18 | 11.18±0.12 | 12.86±0.09 | 5.06±0.02 | 4.63±0.55 | 4.56±0.21 | 3.00±0.44 |
| C029 | Ponnaganni (<i>Alternanthera sessilis</i>) | 2 | 6.83 | 4.67 | 9.32 | 14.56 | 6.02 | 5.40 | 4.46 | 3.25 |
| C030 | Pumpkin leaves, tender (<i>Cucurbita maxima</i>) | 6 | 5.62±1.10 | 6.02±1.00 | 11.79±1.10 | 14.36±0.04 | 5.50±0.35 | 5.25±0.54 | 4.65±0.19 | 3.46±0.22 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|---------------------------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| C031 | Radish leaves (<i>Raphanus sativus</i>) | 6 | 1.96±0.41 | 3.59±0.82 | 6.89±1.11 | 5.34±0.50 | 1.01±0.35 | 0.86±0.14 | 6.00±3.77 | 3.99±0.87 | 1.39±0.52 | 4.26±1.65 |
| C032 | Rumex leaves (<i>Rumex patientia</i>) | 2 | 2.84 | 3.57 | 6.82 | 4.46 | 0.88 | 0.59 | 7.92 | 4.69 | 1.24 | 3.97 |
| C033 | Spinach (<i>Spinacia oleracea</i>) | 6 | 2.18±0.16 | 4.31±0.29 | 8.70±0.59 | 4.68±0.13 | 1.33±0.05 | 0.84±0.06 | 5.38±0.46 | 4.70±0.26 | 1.53±0.11 | 5.83±0.38 |
| C034 | Tamarind leaves, tender (<i>Tamarindus indica</i>) | 3 | 2.19±0.05 | 4.20±0.04 | 8.70±0.67 | 4.69±0.21 | 1.26±0.10 | 0.63±0.03 | 4.86±0.59 | 4.64±0.34 | 1.47±0.06 | 5.65±0.38 |
| D OTHER VEGETABLES | | | | | | | | | | | | |
| D001 | Ash gourd (<i>Benincasa hispida</i>) | 6 | 2.58±1.06 | 4.31±0.72 | 5.67±0.45 | 3.39±0.69 | 1.56±0.37 | 0.83±0.17 | 3.22±0.70 | 3.65±0.38 | 0.72±0.30 | 5.11±0.62 |
| D002 | Bamboo shoot, tender (<i>Bambusa vulgaris</i>) | 1 | 1.73 | 2.19 | 6.24 | 4.82 | 1.04 | 0.49 | 5.57 | 3.90 | 0.95 | 3.69 |
| D003 | Bean scarlet, tender (<i>Phaseolus coccineus</i>) | 5 | 3.23±0.20 | 3.96±0.35 | 8.31±0.26 | 6.70±0.28 | 1.46±0.16 | 0.62±0.09 | 5.13±0.23 | 4.43±0.42 | 0.88±0.16 | 4.54±0.27 |
| D004 | Bitter gourd, jagged, teeth ridges, elongate (<i>Momordica charantia</i>) | 6 | 3.53±0.39 | 4.74±0.28 | 7.40±0.52 | 6.13±0.20 | 1.55±0.08 | 0.94±0.13 | 2.60±0.37 | 4.83±0.33 | 1.28±0.10 | 6.49±0.29 |
| D005 | Bitter gourd, jagged, teeth ridges, short (<i>Momordica charantia</i>) | 4 | 3.17±0.33 | 4.71±0.36 | 7.19±0.33 | 6.63±0.50 | 1.49±0.12 | 0.98±0.39 | 3.15±0.48 | 4.72±0.39 | 1.42±0.20 | 6.51±0.41 |
| D006 | Bitter gourd, jagged, smooth ridges, elongate (<i>Momordica charantia</i>) | 1 | 3.71 | 4.85 | 7.40 | 6.45 | 1.62 | 0.85 | 2.98 | 4.61 | 1.32 | 6.76 |
| D007 | Bottle gourd, elongate, pale green (<i>Lagenaria vulgaris</i>) | 6 | 1.80±0.25 | 4.98±0.51 | 7.74±0.49 | 4.81±0.61 | 0.94±0.15 | 0.57±0.07 | 3.73±0.70 | 4.18±0.42 | 1.60±0.08 | 6.58±0.53 |
| D008 | Bottle gourd, round, pale green (<i>Lagenaria vulgaris</i>) | 5 | 2.10±0.42 | 5.20±0.27 | 7.80±0.50 | 4.97±0.86 | 0.97±0.26 | 0.60±0.14 | 3.41±0.90 | 4.62±0.14 | 1.67±0.23 | 6.64±0.28 |
| D009 | Bottle gourd, elongate, dark green (<i>Lagenaria vulgaris</i>) | 1 | 2.16 | 5.19 | 7.88 | 5.02 | 0.88 | 0.70 | 3.71 | 4.62 | 1.46 | 6.98 |
| D010 | Brinjal-1 (<i>Solanum melongena</i>) | 1 | 1.58 | 3.75 | 5.49 | 4.49 | 0.62 | 0.66 | 4.73 | 2.50 | 1.12 | 3.32 |
| D011 | Brinjal-2 (<i>Solanum melongena</i>) | 1 | 1.57 | 3.23 | 4.53 | 4.03 | 0.80 | 0.76 | 4.40 | 2.54 | 0.66 | 4.15 |
| D012 | Brinjal-3 (<i>Solanum melongena</i>) | 2 | 1.98 | 3.80 | 5.53 | 3.87 | 0.88 | 0.67 | 5.42 | 3.08 | 0.68 | 5.20 |
| D013 | Brinjal-4 (<i>Solanum melongena</i>) | 4 | 2.36±0.14 | 3.79±0.42 | 5.18±0.91 | 4.24±0.21 | 0.78±0.13 | 0.79±0.10 | 4.30±0.18 | 2.86±0.56 | 0.78±0.03 | 4.15±1.14 |
| D014 | Brinjal-5 (<i>Solanum melongena</i>) | 3 | 1.67±0.18 | 3.99±0.52 | 6.14±0.33 | 3.82±0.10 | 0.95±0.06 | 0.79±0.05 | 4.52±0.15 | 3.23±0.13 | 0.72±0.06 | 5.39±0.36 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|---|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | <div><div></div><div>g</div><div></div></div> | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| C031 | Radish leaves (<i>Raphanus sativus</i>) | 6 | 7.90±0.77 | 4.80±0.73 | 9.71±0.80 | 17.10±3.08 | 5.50±0.39 | 4.04±1.25 | 4.73±0.62 | 3.05±0.48 |
| C032 | Rumex leaves (<i>Rumex patientia</i>) | 2 | 7.99 | 5.00 | 10.22 | 15.67 | 7.48 | 3.99 | 5.79 | 2.53 |
| C033 | Spinach (<i>Spinacia oleracea</i>) | 6 | 6.78±0.42 | 5.41±0.36 | 9.24±0.71 | 14.77±1.57 | 5.70±0.25 | 4.70±0.59 | 4.40±0.22 | 3.95±0.32 |
| C034 | Tamarind leaves, tender <i>(Tamarindus indica)</i> | 3 | 6.63±0.61 | 5.58±0.20 | 8.29±1.27 | 13.45±1.16 | 5.81±0.50 | 4.68±0.85 | 4.32±0.27 | 3.93±0.28 |
| D | OTHER VEGETABLES | | | | | | | | | |
| D001 | Ash gourd (<i>Benincasa hispida</i>) | 6 | 5.66±0.64 | 7.83±2.40 | 10.67±1.94 | 17.95±1.22 | 5.59±1.14 | 3.99±0.66 | 4.06±0.25 | 2.88±0.73 |
| D002 | Bamboo shoot, tender (<i>Bambusa vulgaris</i>) | 1 | 4.85 | 4.63 | 14.57 | 11.85 | 4.48 | 7.85 | 5.12 | 3.94 |
| D003 | Bean scarlet, tender (<i>Phaseolus coccineus</i>) | 5 | 5.62±0.35 | 6.07±0.08 | 11.88±0.95 | 16.07±0.00 | 4.76±0.37 | 4.68±0.24 | 5.50±0.39 | 2.83±0.14 |
| D004 | Bitter melon, jagged, teeth ridges, elongate (<i>Momordica charantia</i>) | 6 | 4.90±0.90 | 13.97±1.79 | 7.65±0.63 | 8.50±0.49 | 5.45±0.27 | 4.74±0.38 | 4.11±0.68 | 4.77±0.40 |
| D005 | Bitter melon, jagged, teeth ridges, short (<i>Momordica charantia</i>) | 4 | 4.79±0.42 | 13.01±1.46 | 7.83±1.58 | 8.74±1.41 | 5.26±0.33 | 4.75±0.38 | 4.26±0.89 | 4.61±0.32 |
| D006 | Bitter melon, jagged, smooth ridges, elongate (<i>Momordica charantia</i>) | 1 | 5.64 | 12.77 | 8.34 | 8.90 | 5.34 | 4.66 | 4.41 | 4.68 |
| D007 | Bottle melon, elongate, pale green (<i>Lagenaria vulgaris</i>) | 6 | 7.18±0.79 | 5.95±0.62 | 9.15±0.73 | 17.27±1.15 | 5.08±0.34 | 4.64±0.60 | 4.86±0.43 | 3.08±0.36 |
| D008 | Bottle melon, round, pale green (<i>Lagenaria vulgaris</i>) | 5 | 6.91±1.07 | 5.95±1.38 | 9.23±0.54 | 16.19±0.33 | 5.12±0.54 | 4.74±0.37 | 5.10±0.27 | 3.56±0.64 |
| D009 | Bottle melon, elongate, dark green (<i>Lagenaria vulgaris</i>) | 1 | 8.94 | 6.19 | 9.33 | 15.69 | 4.95 | 4.85 | 4.74 | 3.65 |
| D010 | Brinjal-1 (<i>Solanum melongena</i>) | 1 | 5.59 | 4.42 | 15.95 | 20.57 | 4.44 | 3.85 | 3.34 | 2.26 |
| D011 | Brinjal-2 (<i>Solanum melongena</i>) | 1 | 3.72 | 5.14 | 16.15 | 20.56 | 3.40 | 3.54 | 3.09 | 2.30 |
| D012 | Brinjal-3 (<i>Solanum melongena</i>) | 2 | 3.84 | 4.55 | 14.44 | 20.14 | 3.77 | 3.55 | 3.62 | 2.59 |
| D013 | Brinjal-4 (<i>Solanum melongena</i>) | 4 | 5.03±0.73 | 5.27±0.59 | 15.98±0.99 | 20.30±1.30 | 3.97±0.55 | 3.74±0.50 | 4.03±0.53 | 2.68±0.35 |
| D014 | Brinjal-5 (<i>Solanum melongena</i>) | 3 | 4.98±0.67 | 5.49±0.46 | 14.14±1.77 | 21.64±2.20 | 3.86±0.49 | 3.76±0.78 | 3.52±0.39 | 3.15±0.16 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| D015 | Brinjal-6 (<i>Solanum melongena</i>) | 2 | 2.31 | 3.14 | 5.77 | 3.67 | 0.76 | 0.63 | 4.60 | 2.69 | 0.68 | 3.86 |
| D016 | Brinjal-7 (<i>Solanum melongena</i>) | 1 | 2.11 | 3.44 | 6.18 | 4.25 | 0.95 | 0.99 | 4.85 | 3.03 | 0.70 | 4.72 |
| D017 | Brinjal-8 (<i>Solanum melongena</i>) | 3 | 2.47±0.16 | 4.62±0.45 | 6.84±0.52 | 5.27±0.35 | 0.94±0.02 | 0.76±0.15 | 4.84±0.31 | 2.94±0.12 | 0.60±0.12 | 5.77±0.43 |
| D018 | Brinjal-9 (<i>Solanum melongena</i>) | 2 | 2.39 | 4.44 | 6.51 | 4.94 | 1.03 | 0.81 | 4.31 | 2.97 | 0.75 | 5.66 |
| D019 | Brinjal-10 (<i>Solanum melongena</i>) | 2 | 1.72 | 3.38 | 5.63 | 3.93 | 0.59 | 0.59 | 4.46 | 2.71 | 1.07 | 4.50 |
| D020 | Brinjal-11 (<i>Solanum melongena</i>) | 6 | 1.79±0.28 | 3.35±1.00 | 5.24±0.90 | 3.15±0.64 | 0.81±0.18 | 0.79±0.12 | 4.75±0.28 | 3.04±0.38 | 0.73±0.28 | 4.36±1.45 |
| D021 | Brinjal-12 (<i>Solanum melongena</i>) | 2 | 2.71 | 3.98 | 5.68 | 4.06 | 1.00 | 0.51 | 4.43 | 3.33 | 0.71 | 5.42 |
| D022 | Brinjal-13 (<i>Solanum melongena</i>) | 1 | 2.30 | 4.12 | 5.77 | 4.66 | 0.76 | 0.84 | 5.47 | 3.43 | 0.80 | 5.98 |
| D023 | Brinjal-14 (<i>Solanum melongena</i>) | 3 | 2.12±0.26 | 3.98±0.47 | 5.34±0.80 | 4.26±0.18 | 0.84±0.21 | 0.63±0.18 | 4.29±0.33 | 2.84±0.34 | 0.90±0.10 | 4.82±0.26 |
| D024 | Brinjal-15 (<i>Solanum melongena</i>) | 4 | 1.64±0.26 | 3.09±0.55 | 5.10±0.91 | 3.55±0.28 | 0.70±0.22 | 0.53±0.14 | 4.51±0.75 | 2.85±0.22 | 0.91±0.20 | 4.48±1.18 |
| D025 | Brinjal-16 (<i>Solanum melongena</i>) | 1 | 2.21 | 3.90 | 6.04 | 3.23 | 0.78 | 0.59 | 3.52 | 2.92 | 0.73 | 4.84 |
| D026 | Brinjal-17 (<i>Solanum melongena</i>) | 1 | 2.24 | 3.79 | 5.60 | 4.70 | 0.80 | 0.84 | 4.35 | 3.08 | 0.89 | 4.97 |
| D027 | Brinjal-18 (<i>Solanum melongena</i>) | 3 | 1.67±0.26 | 3.14±0.60 | 5.45±0.42 | 3.29±0.03 | 0.60±0.31 | 0.49±0.15 | 4.41±0.13 | 2.51±0.35 | 0.89±0.21 | 3.31±1.31 |
| D028 | Brinjal-19 (<i>Solanum melongena</i>) | 3 | 1.93±0.31 | 3.73±0.59 | 6.23±0.69 | 3.90±0.97 | 0.84±0.32 | 0.63±0.16 | 4.63±0.87 | 2.95±0.42 | 0.83±0.21 | 3.75±1.73 |
| D029 | Brinjal-20 (<i>Solanum melongena</i>) | 5 | 1.88±0.35 | 3.63±0.46 | 5.70±0.70 | 3.35±0.30 | 0.97±0.15 | 0.77±0.16 | 5.69±0.71 | 3.07±0.05 | 0.86±0.38 | 4.81±0.60 |
| D030 | Brinjal-21 (<i>Solanum melongena</i>) | 2 | 2.07 | 3.15 | 5.44 | 3.40 | 0.68 | 0.71 | 4.87 | 3.24 | 0.97 | 4.60 |
| D031 | Brinjal - all varieties (<i>Solanum melongena</i>) | 6 | 1.98±0.37 | 3.63±0.73 | 5.61±0.78 | 3.81±0.75 | 0.82±0.20 | 0.71±0.16 | 4.70±0.68 | 2.96±0.36 | 0.80±0.21 | 4.60±1.15 |
| D032 | Broad beans (<i>Vicia faba</i>) | 3 | 3.16±0.63 | 4.28±0.12 | 7.63±0.15 | 5.66±0.50 | 0.65±0.81 | 0.55±0.03 | 3.86±0.59 | 3.40±0.66 | 0.88±0.02 | 5.41±0.16 |
| D033 | Capsicum, green (<i>Capsicum annuum</i>) | 6 | 1.72±0.79 | 3.79±0.95 | 5.68±0.57 | 3.47±1.08 | 1.24±0.40 | 0.98±0.04 | 3.49±1.26 | 4.05±0.56 | 0.96±0.15 | 5.17±0.78 |
| D034 | Capsicum, red (<i>Capsicum annuum</i>) | 4 | 1.16±0.15 | 3.61±0.17 | 5.40±0.21 | 3.67±0.12 | 1.10±0.14 | 1.13±0.15 | 3.16±0.40 | 4.14±0.17 | 0.92±0.12 | 5.17±0.26 |
| D035 | Capsicum, yellow (<i>Capsicum annuum</i>) | 4 | 1.13±0.23 | 3.92±0.20 | 5.29±0.28 | 3.80±0.33 | 1.18±0.20 | 1.19±0.21 | 2.98±0.19 | 4.31±0.71 | 0.99±0.22 | 5.24±0.48 |
| D036 | Cauliflower (<i>Brassica oleracea</i>) | 6 | 1.80±0.19 | 3.84±0.45 | 6.01±0.86 | 4.13±0.41 | 1.01±0.10 | 0.56±0.10 | 3.88±0.49 | 4.02±0.33 | 1.06±0.06 | 5.81±0.89 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| D037 | Celery stalk (<i>Apium graveolens</i>) | 3 | 1.43±0.13 | 2.93±0.14 | 4.44±0.45 | 3.32±0.21 | 0.90±0.05 | 0.45±0.07 | 2.92±0.53 | 3.71±0.56 | 1.15±0.03 | 4.64±0.15 |
| D038 | Cho-cho-marrow (<i>Sechium edule</i>) | 4 | 1.82±0.54 | 4.72±0.68 | 8.64±0.94 | 3.56±0.56 | 1.29±0.17 | 0.70±0.17 | 4.65±0.54 | 4.57±0.67 | 0.86±0.09 | 6.71±0.69 |
| D039 | Cluster beans (<i>Cyamopsis tetragonobola</i>) | 6 | 1.75±0.33 | 2.68±1.05 | 4.68±0.73 | 3.09±0.56 | 0.82±0.03 | 1.02±0.20 | 2.99±0.99 | 3.27±0.86 | 0.91±0.16 | 3.96±1.01 |
| D040 | Colocasia, stem, black (<i>Colocasia antiquorum</i>) | 1 | 2.28 | 4.10 | 7.53 | 4.09 | 1.22 | 1.51 | 4.06 | 4.28 | 0.75 | 5.96 |
| D041 | Colocasia, stem, green (<i>Colocasia antiquorum</i>) | 5 | 2.37±0.51 | 4.26±0.53 | 7.20±0.53 | 3.33±0.97 | 1.20±0.19 | 0.80±0.20 | 4.14±0.48 | 4.22±0.34 | 0.73±0.10 | 5.96±0.35 |
| D042 | Corn, Baby (<i>Zea mays</i>) | 6 | 2.13±0.16 | 4.35±0.28 | 8.03±0.30 | 3.36±0.39 | 1.59±0.29 | 1.27±0.13 | 4.85±0.17 | 4.83±0.34 | 0.96±0.18 | 4.87±0.33 |
| D043 | Cucumber, green, elongate (<i>Cucumis sativus</i>) | 6 | 1.92±0.27 | 4.14±0.47 | 6.94±0.63 | 3.15±0.30 | 1.06±0.22 | 0.64±0.14 | 3.17±0.45 | 3.13±0.72 | 0.27±0.12 | 6.09±0.88 |
| D044 | Cucumber, green, short (<i>Cucumis sativus</i>) | 6 | 1.84±0.28 | 3.77±0.47 | 6.11±0.37 | 3.38±0.29 | 0.87±0.15 | 0.79±0.22 | 4.14±0.05 | 3.14±0.16 | 0.66±0.14 | 5.22±0.38 |
| D045 | Cucumber, orange, round (<i>Cucumis sativus</i>) | 2 | 1.80 | 4.74 | 6.43 | 3.28 | 0.75 | 0.76 | 4.43 | 3.70 | 0.52 | 6.13 |
| D046 | Drumstick (<i>Moringa oleifera</i>) | 6 | 1.95±0.15 | 3.08±0.29 | 5.98±0.37 | 3.09±0.45 | 1.10±0.30 | 0.89±0.22 | 3.43±0.36 | 3.83±0.08 | 0.53±0.15 | 5.02±0.35 |
| D047 | Field beans, tender, broad (<i>Vicia faba</i>) | 2 | 2.63 | 4.05 | 8.19 | 4.61 | 0.83 | 0.59 | 4.57 | 3.68 | 0.75 | 5.10 |
| D048 | Field beans, tender, lean (<i>Vicia faba</i>) | 6 | 2.75±0.06 | 4.30±0.19 | 8.20±0.37 | 5.35±0.49 | 0.94±0.06 | 0.62±0.11 | 4.73±0.41 | 3.76±0.04 | 0.80±0.08 | 5.21±0.16 |
| D049 | French beans, country (<i>Phaseolus vulgaris</i>) | 5 | 3.01±0.67 | 3.79±0.67 | 7.29±0.81 | 4.77±0.54 | 0.83±0.12 | 0.60±0.15 | 4.04±0.57 | 4.39±0.25 | 0.96±0.13 | 5.38±0.84 |
| D050 | French beans, hybrid (<i>Phaseolus vulgaris</i>) | 2 | 2.57 | 4.35 | 6.71 | 4.83 | 1.07 | 0.53 | 4.22 | 4.32 | 0.80 | 5.98 |
| D051 | Jack fruit, raw (<i>Artocarpus heterophyllus</i>) | 5 | 1.86±0.21 | 4.90±0.48 | 6.60±0.53 | 2.99±0.14 | 0.79±0.11 | 0.65±0.09 | 3.96±0.76 | 4.16±0.56 | 0.53±0.08 | 5.65±0.18 |
| D052 | Jack fruit, seed, mature (<i>Artocarpus heterophyllus</i>) | 5 | 1.69±0.17 | 5.50±0.52 | 7.19±0.34 | 3.73±0.29 | 0.94±0.17 | 0.55±0.03 | 6.22±0.34 | 5.46±0.51 | 0.94±0.14 | 6.86±0.10 |
| D053 | Knol - Khol (<i>Brassica oleracea</i>) | 6 | 0.91±0.65 | 3.40±0.11 | 4.04±0.09 | 2.50±1.09 | 0.96±0.06 | 0.71±0.02 | 1.90±0.18 | 3.30±0.26 | 0.78±0.05 | 5.31±0.19 |
| D054 | Kovai, big (<i>Coccinia cordifolia</i>) | 6 | 1.91±0.16 | 4.10±0.36 | 7.32±0.34 | 7.05±0.27 | 0.94±0.09 | 0.66±0.11 | 3.87±0.81 | 4.17±0.38 | 0.93±0.08 | 4.97±0.78 |
| D055 | Kovai, small (<i>Coccinia cordifolia</i>) | 1 | 1.83 | 3.88 | 7.14 | 6.38 | 0.90 | 0.69 | 4.16 | 4.20 | 0.85 | 5.05 |
| D056 | Ladies finger (<i>Abelmoschus esculentus</i>) | 6 | 2.42±0.37 | 3.26±0.48 | 5.04±0.42 | 3.79±0.51 | 0.81±0.21 | 0.57±0.10 | 3.44±0.27 | 3.75±0.38 | 0.49±0.09 | 4.46±0.36 |
| D057 | Mango, green, raw (<i>Mangifera indica</i>) | 6 | 2.83±0.21 | 4.44±0.88 | 7.90±0.75 | 5.34±0.39 | 1.37±0.08 | 0.71±0.05 | 3.75±0.16 | 4.19±0.46 | 1.06±0.36 | 5.79±1.02 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|--|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | |  | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| D037 | Celery stalk (<i>Apium graveolens</i>) | 3 | 3.07±0.10 | 3.53±0.51 | 20.42±1.44 | 25.87±1.94 | 3.61±0.13 | 2.85±0.40 | 4.29±0.28 | 2.21±0.04 |
| D038 | Cho-cho-marrow (<i>Sechium edule</i>) | 4 | 7.29±0.79 | 4.01±1.93 | 13.25±2.43 | 16.75±1.63 | 4.85±0.54 | 4.18±0.85 | 5.90±0.81 | 3.35±0.92 |
| D039 | Cluster beans (<i>Cyamopsis tetragonobola</i>) | 6 | 7.08±1.05 | 6.48±0.49 | 18.73±3.01 | 11.00±1.56 | 4.44±0.51 | 3.90±0.42 | 4.15±0.77 | 4.17±0.84 |
| D040 | Colocasia, stem, black (<i>Colocasia antiquorum</i>) | 1 | 7.77 | 4.52 | 13.23 | 16.36 | 5.87 | 4.63 | 5.53 | 3.56 |
| D041 | Colocasia, stem, green (<i>Colocasia antiquorum</i>) | 5 | 7.37±1.23 | 4.70±0.63 | 11.84±1.78 | 18.86±2.51 | 6.69±1.43 | 4.14±0.75 | 4.94±0.80 | 3.08±0.47 |
| D042 | Corn, Baby(<i>Zea mays</i>) | 6 | 6.85±0.26 | 5.90±0.18 | 12.40±1.31 | 17.20±0.55 | 5.84±0.21 | 4.66±0.31 | 4.23±0.34 | 3.15±0.27 |
| D043 | Cucumber, green, elongate (<i>Cucumis sativus</i>) | 6 | 7.18±1.41 | 4.47±0.44 | 6.96±0.92 | 22.84±2.45 | 4.47±0.52 | 3.30±0.49 | 3.79±0.68 | 2.98±0.46 |
| D044 | Cucumber, green, short (<i>Cucumis sativus</i>) | 6 | 7.12±0.81 | 4.96±1.46 | 7.03±0.10 | 24.25±3.15 | 4.94±0.87 | 3.68±0.35 | 3.94±0.72 | 2.58±0.32 |
| D045 | Cucumber, orange, round (<i>Cucumis sativus</i>) | 2 | 7.19 | 3.42 | 7.48 | 25.58 | 5.51 | 3.94 | 3.53 | 3.11 |
| D046 | Drumstick (<i>Moringa oleifera</i>) | 6 | 5.68±0.61 | 10.93±0.29 | 9.42±1.33 | 23.30±2.18 | 3.91±0.41 | 3.36±0.54 | 4.60±0.34 | 2.16±0.20 |
| D047 | Field beans, tender, broad (<i>Vicia faba</i>) | 2 | 5.88 | 6.02 | 13.35 | 14.95 | 4.53 | 4.24 | 5.43 | 3.36 |
| D048 | Field beans, tender, lean (<i>Vicia faba</i>) | 6 | 5.58±0.10 | 6.01±0.23 | 13.41±1.66 | 16.19±1.64 | 4.64±0.17 | 4.13±0.06 | 5.64±0.22 | 3.62±0.13 |
| D049 | French beans, country (<i>Phaseolus vulgaris</i>) | 5 | 5.78±0.63 | 5.95±0.71 | 11.66±0.48 | 15.73±1.66 | 4.32±0.26 | 4.01±0.31 | 5.09±0.82 | 3.15±0.50 |
| D050 | French beans, hybrid (<i>Phaseolus vulgaris</i>) | 2 | 4.08 | 6.41 | 11.43 | 13.06 | 3.90 | 5.81 | 5.20 | 2.95 |
| D051 | Jack fruit, raw (<i>Artocarpus heterophyllus</i>) | 5 | 6.13±0.30 | 3.68±0.50 | 21.99±1.65 | 10.62±1.45 | 5.59±0.44 | 4.06±0.46 | 4.40±0.57 | 2.95±0.41 |
| D052 | Jack fruit, seed, mature (<i>Artocarpus heterophyllus</i>) | 5 | 4.89±0.37 | 3.02±0.30 | 15.33±1.83 | 11.45±0.46 | 5.99±0.33 | 4.81±0.53 | 5.31±0.62 | 5.61±0.12 |
| D053 | Knol - Khol (<i>Brassica oleracea</i>) | 6 | 5.51±0.97 | 5.74±1.70 | 9.88±0.18 | 36.40±1.63 | 3.43±0.14 | 3.27±0.24 | 4.02±0.29 | 2.01±0.09 |
| D054 | Kovai, big (<i>Coccinia cordifolia</i>) | 6 | 7.18±0.68 | 6.04±1.10 | 10.69±1.01 | 20.82±1.66 | 5.18±0.19 | 4.17±0.48 | 5.71±0.37 | 3.04±0.64 |
| D055 | Kovai, small (<i>Coccinia cordifolia</i>) | 1 | 6.57 | 6.45 | 11.71 | 21.11 | 4.67 | 3.61 | 5.19 | 3.31 |
| D056 | Ladies finger (<i>Abelmoschus esculentus</i>) | 6 | 5.37±0.57 | 5.95±0.70 | 15.47±1.48 | 16.70±1.03 | 3.95±0.47 | 3.39±0.47 | 3.59±0.32 | 2.51±0.43 |
| D057 | Mango, green, raw (<i>Mangifera indica</i>) | 6 | 9.22±1.34 | 5.34±1.22 | 10.23±0.75 | 14.23±0.85 | 5.43±0.81 | 5.34±1.02 | 4.99±1.08 | 3.39±0.55 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| D058 | Onion, stalk (<i>Allium cepa</i>) | 6 | 2.16±0.18 | 4.88±0.20 | 8.05±0.20 | 6.50±0.38 | 1.21±0.22 | 0.46±0.12 | 4.09±0.19 | 4.74±0.33 | 1.07±0.03 | 5.90±0.32 |
| D059 | Papaya, raw (<i>Carica papaya</i>) | 6 | 0.97±0.09 | 1.57±0.19 | 3.22±0.28 | 3.82±0.98 | 0.63±0.21 | 3.77±0.37 | 3.91±1.94 | 2.85±0.80 | 1.00±0.10 | 3.16±0.23 |
| D060 | Parwar (<i>Trichosanthes dioica</i>) | 6 | 1.75±0.27 | 4.41±0.59 | 7.22±0.30 | 5.89±0.91 | 1.33±0.33 | 0.86±0.10 | 3.86±0.99 | 3.82±0.45 | 0.59±0.15 | 5.95±0.32 |
| D061 | Peas, fresh (<i>Pisum sativum</i>) | 6 | 2.15±0.38 | 3.33±1.04 | 7.63±0.64 | 5.72±0.54 | 0.63±0.12 | 0.64±0.13 | 5.02±0.24 | 4.08±0.37 | 0.84±0.08 | 4.23±0.98 |
| D062 | Plantain, flower (<i>Musa x paradisiaca</i>) | 6 | 2.31±0.14 | 3.63±0.50 | 7.06±0.47 | 2.81±0.20 | 0.81±0.19 | 0.65±0.15 | 3.68±0.31 | 4.43±0.20 | 0.81±0.10 | 4.75±0.55 |
| D063 | Plantain, green (<i>Musa x paradisiaca</i>) | 6 | 2.45±0.19 | 2.59±0.54 | 4.98±0.51 | 3.70±0.25 | 0.80±0.08 | 0.67±0.10 | 5.32±1.40 | 2.93±0.25 | 0.68±0.13 | 5.51±0.46 |
| D064 | Plantain, stem (<i>Musa x paradisiaca</i>) | 6 | 1.91±0.58 | 4.92±0.41 | 4.59±0.32 | 2.99±0.64 | 1.57±0.34 | 0.99±0.21 | 4.50±0.78 | 4.86±0.50 | 0.67±0.11 | 5.84±0.62 |
| D065 | Pumpkin, green, cylindrical (<i>Cucurbita maxima</i>) | 1 | 2.18 | 4.54 | 5.41 | 3.40 | 0.96 | 0.60 | 2.84 | 3.47 | 0.73 | 5.97 |
| D066 | Pumpkin, orange, round (<i>Cucurbita maxima</i>) | 6 | 1.68±0.10 | 5.00±0.36 | 5.32±0.34 | 3.20±0.48 | 1.03±0.13 | 0.68±0.06 | 4.91±1.13 | 3.85±0.43 | 0.77±0.19 | 6.05±0.50 |
| D067 | Red gram, tender, fresh (<i>Cajanus cajan</i>) | 1 | 3.14 | 3.31 | 4.89 | 6.21 | 0.41 | 0.75 | 8.56 | 3.87 | 0.99 | 4.30 |
| D068 | Ridge gourd (<i>Luffa acutangula</i>) | 6 | 1.87±0.14 | 4.60±0.14 | 5.34±0.09 | 4.78±0.37 | 0.98±0.08 | 0.40±0.10 | 4.21±0.38 | 3.68±0.11 | 0.72±0.09 | 5.95±0.30 |
| D069 | Ridge gourd, smooth skin (<i>Luffa acutangula</i>) | 3 | 2.25±0.59 | 4.92±0.40 | 5.79±0.10 | 4.64±0.72 | 1.06±0.25 | 0.42±0.07 | 4.45±0.28 | 4.03±0.27 | 0.69±0.05 | 5.99±0.30 |
| D070 | Snake gourd, long, pale green (<i>Trichosanthes anguina</i>) | 6 | 1.64±0.12 | 4.11±0.62 | 5.22±0.07 | 4.13±0.28 | 0.90±0.13 | 0.65±0.05 | 4.11±0.36 | 3.40±0.37 | 0.60±0.09 | 5.66±0.48 |
| D071 | Snake gourd, long, dark green (<i>Trichosanthes anguina</i>) | 2 | 1.85 | 4.85 | 5.71 | 5.64 | 0.93 | 0.64 | 3.95 | 3.86 | 0.63 | 5.27 |
| D072 | Snake gourd, short (<i>Trichosanthes anguina</i>) | 1 | 1.35 | 4.06 | 5.66 | 4.91 | 1.13 | 0.61 | 4.25 | 3.12 | 0.63 | 5.40 |
| D073 | Tinda, tender (<i>Praecitrullus fistulosus</i>) | 6 | 1.78±0.13 | 4.11±0.09 | 6.70±0.22 | 4.88±0.86 | 0.91±0.04 | 0.70±0.05 | 3.64±0.10 | 3.70±0.08 | 0.62±0.13 | 5.79±0.12 |
| D074 | Tomato, green (<i>Lycopersicon esculentum</i>) | 6 | 2.26±1.19 | 2.69±0.26 | 3.62±0.37 | 4.35±0.52 | 1.01±0.16 | 0.80±0.07 | 3.47±0.59 | 2.62±0.37 | 0.73±0.07 | 3.09±0.15 |
| D075 | Tomato, ripe, hybrid (<i>Lycopersicon esculentum</i>) | 6 | 1.58±0.18 | 2.29±0.71 | 4.18±0.93 | 2.55±0.58 | 0.67±0.16 | 0.95±0.19 | 4.54±0.91 | 2.52±0.63 | 0.52±0.11 | 2.74±0.97 |
| D076 | Tomato, ripe, local (<i>Lycopersicon esculentum</i>) | 6 | 1.36±0.27 | 2.69±0.38 | 4.71±0.57 | 2.33±0.38 | 0.68±0.34 | 0.94±0.14 | 4.30±0.77 | 2.71±0.40 | 0.64±0.07 | 3.26±0.63 |
| D077 | Zucchini, green (<i>Cucurbita pepo</i>) | 2 | 1.98 | 4.24 | 5.68 | 4.67 | 0.78 | 0.57 | 4.73 | 3.82 | 0.85 | 5.87 |
| D078 | Zucchini, yellow (<i>Cucurbita pepo</i>) | 2 | 1.74 | 4.25 | 5.50 | 5.03 | 0.75 | 0.68 | 5.54 | 3.81 | 0.86 | 5.71 |

Table 8. Amino Acid Profile

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| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| D058 | Onion, stalk (<i>Allium cepa</i>) | 6 | 5.91±0.21 | 4.50±0.29 | 9.66±0.42 | 14.62±0.27 | 7.82±0.31 | 5.03±0.25 | 4.53±0.25 | 3.75±0.24 |
| D059 | Papaya, raw (<i>Carica papaya</i>) | 6 | 5.07±0.88 | 3.08±0.25 | 11.90±0.26 | 14.27±1.52 | 4.93±0.48 | 2.99±0.45 | 3.56±0.93 | 4.38±1.31 |
| D060 | Parwar (<i>Trichosanthes dioica</i>) | 6 | 6.61±1.55 | 5.97±1.03 | 9.60±0.60 | 19.43±2.33 | 6.21±1.28 | 5.28±0.31 | 4.79±0.45 | 2.96±0.20 |
| D061 | Peas, fresh (<i>Pisum sativum</i>) | 6 | 4.23±0.32 | 10.05±1.51 | 11.61±0.94 | 17.38±1.96 | 4.28±0.27 | 3.78±0.85 | 4.53±0.38 | 3.06±0.48 |
| D062 | Plantain, flower (<i>Musa x paradisiaca</i>) | 6 | 6.96±1.02 | 5.06±0.31 | 10.40±0.97 | 21.78±2.69 | 5.19±0.40 | 4.39±0.75 | 5.62±0.66 | 2.86±0.29 |
| D063 | Plantain, green (<i>Musa x paradisiaca</i>) | 6 | 5.94±0.89 | 4.46±1.11 | 14.43±1.76 | 20.43±1.81 | 3.83±0.38 | 3.14±0.52 | 4.45±0.49 | 2.09±0.47 |
| D064 | Plantain, stem (<i>Musa x paradisiaca</i>) | 6 | 7.68±1.02 | 3.84±0.91 | 10.82±0.87 | 20.16±3.54 | 4.06±0.29 | 4.89±0.95 | 5.06±0.21 | 2.83±0.49 |
| D065 | Pumpkin, green, cylindrical (<i>Cucurbita maxima</i>) | 1 | 4.72 | 5.23 | 12.58 | 20.37 | 3.15 | 3.57 | 4.30 | 4.48 |
| D066 | Pumpkin, orange, round (<i>Cucurbita maxima</i>) | 6 | 4.96±0.31 | 3.65±0.45 | 12.99±1.28 | 19.58±1.75 | 5.05±0.36 | 3.87±0.24 | 4.42±0.24 | 2.85±0.40 |
| D067 | Red gram, tender, fresh (<i>Cajanus cajan</i>) | 1 | 6.60 | 5.84 | 10.61 | 20.95 | 3.96 | 4.63 | 5.09 | 2.63 |
| D068 | Ridge gourd (<i>Luffa acutangula</i>) | 6 | 6.47±0.39 | 5.15±0.88 | 9.98±0.63 | 21.06±1.69 | 5.04±0.30 | 3.39±0.52 | 4.33±0.07 | 3.27±0.28 |
| D069 | Ridge gourd, smooth skin (<i>Luffa acutangula</i>) | 3 | 6.15±0.61 | 4.85±0.80 | 9.91±0.42 | 21.40±3.50 | 5.04±0.42 | 3.74±0.71 | 4.55±0.36 | 3.24±0.53 |
| D070 | Snake gourd, long, pale green (<i>Trichosanthes anguina</i>) | 6 | 6.07±0.42 | 4.83±0.75 | 10.04±1.07 | 20.81±1.49 | 4.46±0.43 | 3.85±0.78 | 4.79±0.43 | 2.62±0.28 |
| D071 | Snake gourd, long, dark green (<i>Trichosanthes anguina</i>) | 2 | 6.59 | 5.67 | 10.16 | 20.07 | 4.98 | 4.18 | 4.72 | 2.99 |
| D072 | Snake gourd, short (<i>Trichosanthes anguina</i>) | 1 | 6.62 | 5.43 | 9.70 | 20.21 | 4.26 | 3.69 | 4.41 | 2.79 |
| D073 | Tinda, tender (<i>Praecitrullus fistulosus</i>) | 6 | 4.37±0.33 | 7.03±1.14 | 10.29±0.95 | 19.87±3.60 | 3.52±0.10 | 3.92±0.20 | 5.06±0.14 | 2.94±0.24 |
| D074 | Tomato, green (<i>Lycopersicon esculentum</i>) | 6 | 2.46±0.17 | 3.93±0.46 | 10.94±0.69 | 30.29±4.05 | 3.35±0.17 | 2.37±0.38 | 3.76±0.45 | 2.27±0.08 |
| D075 | Tomato, ripe, hybrid (<i>Lycopersicon esculentum</i>) | 6 | 4.21±0.72 | 3.23±0.91 | 14.26±1.75 | 37.44±5.55 | 3.64±0.34 | 2.43±0.56 | 3.40±0.64 | 2.66±0.39 |
| D076 | Tomato, ripe, local (<i>Lycopersicon esculentum</i>) | 6 | 4.72±0.84 | 4.13±0.51 | 12.71±2.23 | 39.25±1.68 | 3.86±0.51 | 2.87±0.63 | 3.67±0.45 | 2.68±0.29 |
| D077 | Zucchini, green (<i>Cucurbita pepo</i>) | 2 | 6.86 | 3.80 | 10.04 | 22.68 | 3.48 | 4.26 | 4.42 | 2.87 |
| D078 | Zucchini, yellow (<i>Cucurbita pepo</i>) | 2 | 6.66 | 4.25 | 10.68 | 22.29 | 3.56 | 4.71 | 4.44 | 2.89 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| E | FRUITS | | | | | | | | | | | |
| E001 | Apple, big (<i>Malus domestica</i>) | 6 | 2.26±0.25 | 3.56±0.19 | 5.17±0.12 | 3.01±0.22 | 1.23±0.13 | 0.75±0.13 | 3.39±0.36 | 3.85±0.28 | 0.86±0.12 | 3.50±0.26 |
| E002 | Apple, green (<i>Malus domestica</i>) | 6 | 2.67±0.21 | 4.85±0.43 | 5.75±0.11 | 3.11±0.20 | 1.40±0.11 | 0.67±0.15 | 3.86±0.30 | 4.40±0.28 | 0.78±0.10 | 3.66±0.30 |
| E003 | Apple, small (<i>Malus domestica</i>) | 6 | 2.36±0.43 | 3.86±0.47 | 5.71±0.72 | 2.86±0.21 | 1.27±0.13 | 0.71±0.13 | 3.74±0.19 | 4.07±0.62 | 0.85±0.06 | 4.38±0.31 |
| E004 | Apple, small, Kashmir (<i>Malus domestica</i>) | 1 | 2.30 | 4.11 | 6.69 | 3.48 | 1.34 | 0.62 | 4.16 | 4.19 | 0.85 | 4.18 |
| E005 | Apricot, dried (<i>Prunus armeniaca</i>) | 6 | 1.21±0.29 | 2.25±0.31 | 4.22±0.08 | 3.28±0.19 | 1.19±0.30 | 0.86±0.11 | 2.73±0.41 | 2.48±0.16 | 0.70±0.07 | 2.31±0.33 |
| E006 | Apricot, processed (<i>Prunus armeniaca</i>) | 3 | 1.49±0.63 | 2.22±0.33 | 4.12±0.14 | 4.54±0.49 | 0.80±0.01 | 0.60±0.01 | 2.69±0.09 | 2.58±0.26 | 0.80±0.02 | 2.12±0.02 |
| E007 | Avocado fruit (<i>Persea americana</i>) | 1 | 2.38 | 3.45 | 6.27 | 5.84 | 1.66 | 1.58 | 4.24 | 3.48 | 1.04 | 4.48 |
| E008 | Bael fruit (<i>Aegle marmelos</i>) | 1 | 2.52 | 3.29 | 5.86 | 4.86 | 1.26 | 0.65 | 4.81 | 4.16 | 0.98 | 4.62 |
| E009 | Banana, ripe, montham (<i>Musa x paradisiaca</i>) | 1 | 6.76 | 4.94 | 9.22 | 4.51 | 1.18 | 0.64 | 5.52 | 4.66 | 0.81 | 5.82 |
| E010 | Banana, ripe, poovam (<i>Musa x paradisiaca</i>) | 2 | 6.42 | 3.79 | 9.41 | 4.89 | 1.05 | 0.75 | 5.32 | 5.08 | 0.90 | 6.11 |
| E011 | Banana, ripe, red (<i>Musa x paradisiaca</i>) | 1 | 6.77 | 4.25 | 8.72 | 4.17 | 1.20 | 0.53 | 5.28 | 4.56 | 0.82 | 6.56 |
| E012 | Banana, ripe, robusta (<i>Musa x paradisiaca</i>) | 6 | 5.85±0.26 | 3.69±0.41 | 8.23±0.47 | 4.30±0.27 | 1.09±0.13 | 0.57±0.11 | 4.28±0.49 | 4.09±0.21 | 0.99±0.08 | 6.05±0.40 |
| E013 | Black berry (<i>Rubus fruticosus</i>) | 5 | 3.09±0.34 | 4.86±0.26 | 7.82±0.34 | 4.72±0.13 | 1.49±0.16 | 0.66±0.12 | 5.18±0.91 | 4.76±0.43 | 0.83±0.06 | 6.57±0.58 |
| E014 | Cherries, red (<i>Prunus cerasus</i>) | 4 | 1.76±0.23 | 3.46±0.88 | 5.88±1.42 | 3.88±0.27 | 1.68±0.61 | 0.92±0.10 | 4.10±1.05 | 4.06±0.75 | 0.50±0.06 | 4.78±1.02 |
| E015 | Currants, black (<i>Ribes nigrum</i>) | 1 | 2.25 | 4.35 | 8.33 | 3.82 | 1.77 | 0.44 | 4.42 | 4.14 | 1.47 | 5.11 |
| E016 | Custard apple (<i>Annona squamosa</i>) | 1 | 5.25 | 2.26 | 4.88 | 4.26 | 0.99 | 0.48 | 4.16 | 4.37 | 0.86 | 4.86 |
| E017 | Dates, dry, pale brown (<i>Phoenix dactylifera</i>) | 6 | 1.84±0.38 | 1.92±0.39 | 5.17±0.79 | 2.44±0.77 | 1.03±0.20 | 1.33±0.12 | 3.55±0.72 | 3.73±0.43 | 0.85±0.12 | 2.85±0.46 |
| E018 | Dates, dry, dark brown (<i>Phoenix dactylifera</i>) | 2 | 2.06 | 3.05 | 5.23 | 2.81 | 1.25 | 1.26 | 3.46 | 3.27 | 1.83 | 3.30 |
| E019 | Dates, processed (<i>Phoenix dactylifera</i>) | 2 | 1.62 | 2.29 | 4.98 | 2.97 | 1.05 | 1.35 | 2.59 | 3.64 | 0.80 | 2.85 |
| E020 | Fig (<i>Ficus carica</i>) | 6 | 1.16±0.05 | 4.84±0.20 | 5.80±0.19 | 3.19±0.18 | 0.90±0.14 | 1.68±0.12 | 3.36±0.28 | 4.24±0.35 | 0.85±0.03 | 5.34±0.14 |
| E021 | Goosberry (<i>Embllica officinalis</i>) | 5 | 2.40±0.26 | 1.94±0.34 | 4.25±0.42 | 4.06±0.50 | 0.73±0.17 | 0.61±0.16 | 4.85±2.04 | 3.30±0.69 | 0.75±0.08 | 2.99±0.39 |

Table 8. Amino Acid Profile

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|---|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| E | FRUITS | | | | | | | | | |
| E001 | Apple, big (<i>Malus domestica</i>) | 6 | 8.22±0.20 | 3.19±0.21 | 25.16±2.09 | 8.92±1.09 | 3.58±0.43 | 3.28±0.16 | 5.64±0.20 | 2.67±0.25 |
| E002 | Apple, green (<i>Malus domestica</i>) | 6 | 7.12±0.29 | 3.96±0.49 | 20.64±0.61 | 9.60±0.32 | 4.79±0.17 | 4.15±0.17 | 5.31±0.23 | 2.10±0.20 |
| E003 | Apple, small (<i>Malus domestica</i>) | 6 | 6.86±0.70 | 2.47±0.26 | 22.08±2.22 | 9.64±0.27 | 4.93±0.54 | 3.78±0.33 | 5.67±0.66 | 2.39±0.23 |
| E004 | Apple, small, Kashmir (<i>Malus domestica</i>) | 1 | 6.12 | 2.52 | 18.40 | 9.78 | 4.11 | 5.45 | 5.53 | 1.58 |
| E005 | Apricot, dried (<i>Prunus armeniaca</i>) | 6 | 4.36±0.71 | 3.89±0.81 | 18.26±4.95 | 9.54±1.24 | 3.29±0.87 | 8.69±0.30 | 3.77±1.02 | 3.43±0.22 |
| E006 | Apricot, processed (<i>Prunus armeniaca</i>) | 3 | 5.29±0.13 | 2.54±0.34 | 17.38±0.70 | 13.44±1.15 | 3.32±0.43 | 8.60±0.78 | 3.81±0.02 | 1.96±0.54 |
| E007 | Avocado fruit (<i>Persea americana</i>) | 1 | 5.38 | 4.45 | 15.56 | 13.37 | 4.25 | 4.48 | 4.46 | 2.64 |
| E008 | Bael fruit (<i>Aegle marmelos</i>) | 1 | 4.82 | 3.86 | 18.20 | 14.26 | 3.86 | 5.26 | 5.40 | 2.43 |
| E009 | Banana, ripe, montham (<i>Musa x paradisiaca</i>) | 1 | 5.25 | 2.52 | 12.92 | 13.91 | 3.35 | 5.11 | 5.99 | 2.30 |
| E010 | Banana, ripe, poovam (<i>Musa x paradisiaca</i>) | 2 | 5.46 | 3.18 | 13.03 | 16.88 | 6.70 | 4.59 | 5.67 | 2.22 |
| E011 | Banana, ripe, red (<i>Musa x paradisiaca</i>) | 1 | 4.89 | 2.75 | 13.32 | 17.90 | 5.37 | 4.16 | 5.39 | 1.97 |
| E012 | Banana, ripe, robusta (<i>Musa x paradisiaca</i>) | 6 | 7.08±0.90 | 3.70±0.32 | 13.07±1.30 | 15.17±0.14 | 4.79±0.43 | 3.65±0.93 | 4.70±0.36 | 2.14±0.34 |
| E013 | Black berry (<i>Rubus fruticosus</i>) | 5 | 6.40±0.24 | 4.31±2.14 | 12.08±0.69 | 15.66±0.50 | 6.02±0.65 | 5.55±0.42 | 5.36±0.50 | 3.03±0.26 |
| E014 | Cherries, red (<i>Prunus cerasus</i>) | 4 | 4.99±1.97 | 1.77±0.53 | 28.46±12.91 | 15.62±3.07 | 6.51±2.15 | 4.22±0.96 | 4.61±0.88 | 2.20±0.41 |
| E015 | Currants, black (<i>Ribes nigrum</i>) | 1 | 3.69 | 6.97 | 10.42 | 20.94 | 5.36 | 5.03 | 5.23 | 2.89 |
| E016 | Custard apple (<i>Annona squamosa</i>) | 1 | 7.08 | 3.87 | 18.32 | 17.32 | 4.86 | 4.82 | 5.12 | 1.97 |
| E017 | Dates, dry, pale brown (<i>Phoenix dactylifera</i>) | 6 | 6.94±0.51 | 4.08±0.44 | 12.80±0.35 | 15.76±1.09 | 6.18±0.41 | 5.78±0.90 | 5.08±0.24 | 2.15±0.40 |
| E018 | Dates, dry, dark brown (<i>Phoenix dactylifera</i>) | 2 | 7.02 | 3.90 | 9.68 | 14.85 | 5.96 | 5.62 | 4.86 | 2.00 |
| E019 | Dates, processed (<i>Phoenix dactylifera</i>) | 2 | 8.53 | 3.66 | 13.63 | 16.39 | 6.70 | 6.43 | 5.94 | 2.09 |
| E020 | Fig (<i>Ficus carica</i>) | 6 | 5.74±0.47 | 2.02±0.15 | 20.90±0.89 | 19.36±1.12 | 4.71±0.32 | 4.89±0.36 | 4.63±0.20 | 2.80±0.18 |
| E021 | Goosberry (<i>Emblica officinalis</i>) | 5 | 6.47±1.67 | 3.87±0.45 | 14.90±2.63 | 23.90±2.39 | 5.01±0.47 | 4.48±0.48 | 4.95±0.23 | 2.60±0.39 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| E022 | Grapes, seeded, round, black (<i>Vitis vinifera</i>) | 4 | 2.59±0.25 | 1.98±0.37 | 5.92±0.81 | 2.15±0.18 | 1.13±0.31 | 1.17±0.02 | 3.59±0.35 | 4.90±0.39 | 0.49±0.03 | 2.60±0.18 |
| E023 | Grapes, seeded, round, green (<i>Vitis vinifera</i>) | 5 | 2.61±0.31 | 2.20±0.09 | 6.31±0.72 | 2.34±0.16 | 1.04±0.16 | 1.25±0.11 | 3.12±0.33 | 5.33±0.31 | 0.66±0.06 | 2.46±0.24 |
| E024 | Grapes, seeded, round, red (<i>Vitis vinifera</i>) | 5 | 2.34±0.19 | 3.49±0.30 | 5.86±0.40 | 1.92±0.13 | 0.94±0.16 | 1.14±0.12 | 4.14±0.53 | 4.87±0.72 | 0.69±0.13 | 2.83±0.25 |
| E025 | Grapes, seedless, oval, black (<i>Vitis vinifera</i>) | 5 | 2.78±0.10 | 2.58±0.31 | 7.21±0.21 | 1.92±0.16 | 1.02±0.12 | 1.24±0.37 | 3.85±0.19 | 5.28±0.13 | 0.69±0.10 | 2.73±0.21 |
| E026 | Grapes, seedless, round, green (<i>Vitis vinifera</i>) | 5 | 2.87±0.32 | 1.98±0.12 | 7.15±0.15 | 2.38±0.12 | 0.91±0.01 | 1.33±0.17 | 4.17±0.16 | 5.25±0.21 | 0.69±0.18 | 2.70±0.03 |
| E027 | Grapes, seedless, round, black (<i>Vitis vinifera</i>) | 5 | 2.32±0.18 | 2.74±0.07 | 6.44±0.19 | 2.55±0.16 | 0.85±0.11 | 1.15±0.12 | 4.79±0.13 | 5.05±0.23 | 0.76±0.14 | 2.70±0.07 |
| E028 | Guava, white flesh (<i>Psidium guajava</i>) | 5 | 2.04±0.07 | 4.08±0.82 | 6.77±0.86 | 2.55±0.19 | 0.96±0.05 | 0.97±0.12 | 1.34±0.13 | 3.15±0.46 | 0.83±0.12 | 3.27±0.21 |
| E029 | Guava, pink flesh (<i>Psidium guajava</i>) | 5 | 1.84±0.21 | 3.94±0.27 | 6.01±0.60 | 2.76±0.17 | 0.89±0.23 | 1.02±0.30 | 1.55±0.28 | 3.77±0.22 | 0.77±0.04 | 3.36±0.20 |
| E030 | Jack fruit, ripe (<i>Artocarpus heterophyllus</i>) | 5 | 1.63±0.23 | 3.49±0.55 | 6.76±0.90 | 3.32±0.40 | 0.54±0.13 | 0.50±0.09 | 4.49±1.06 | 4.35±0.71 | 0.62±0.51 | 5.18±1.28 |
| E031 | Jambu fruit, ripe (<i>Syzygium cumini</i>) | 2 | 2.38 | 5.21 | 8.52 | 1.99 | 1.85 | 0.93 | 5.63 | 5.32 | 0.83 | 6.99 |
| E032 | Karonda fruit (<i>Carissa carandas</i>) | 1 | 3.08 | 2.86 | 4.85 | 1.98 | 1.25 | 1.18 | 3.86 | 3.66 | 0.85 | 4.62 |
| E033 | Lemon, juice (<i>Citrus limon</i>) | 6 | 1.99±0.16 | 2.72±0.15 | 2.51±0.49 | 5.07±0.09 | 1.10±0.07 | 1.28±0.30 | 3.54±0.20 | 1.69±0.17 | 0.45±0.21 | 2.90±0.42 |
| E034 | Lime, sweet,pulp (<i>Citrus limetta</i>) | 6 | 3.40±0.31 | 2.12±0.09 | 2.66±0.27 | 2.31±0.17 | 0.97±0.59 | 1.33±0.04 | 1.32±0.23 | 1.29±0.17 | 0.48±0.09 | 1.73±0.22 |
| E035 | Litchi (<i>Nephelium litchi</i>) | 4 | 1.84±0.27 | 4.73±0.36 | 8.08±0.63 | 4.95±0.22 | 1.46±0.23 | 1.22±0.15 | 5.39±0.39 | 4.74±0.52 | 0.74±0.04 | 6.05±0.58 |
| E036 | Mango, ripe, banganapalli (<i>Mangifera indica</i>) | 6 | 2.69±0.29 | 3.73±0.48 | 8.18±1.05 | 5.69±0.24 | 1.57±0.13 | 0.78±0.19 | 3.20±0.17 | 5.10±0.44 | 0.94±0.32 | 5.92±0.91 |
| E037 | Mango, ripe, gulabkhas (<i>Mangifera indica</i>) | 2 | 2.33 | 3.79 | 9.21 | 3.34 | 1.66 | 0.71 | 3.75 | 5.38 | 1.33 | 6.32 |
| E038 | Mango, ripe, himsagar (<i>Mangifera indica</i>) | 3 | 2.18±0.33 | 3.80±0.44 | 7.55±0.42 | 4.74±0.56 | 1.69±0.17 | 1.04±0.03 | 3.70±0.33 | 5.23±0.36 | 1.16±0.49 | 4.87±0.76 |
| E039 | Mango, ripe, kesar (<i>Mangifera indica</i>) | 4 | 2.07±0.19 | 4.05±0.65 | 8.26±0.97 | 3.05±0.53 | 1.59±0.27 | 0.85±0.28 | 3.47±0.49 | 5.29±0.59 | 1.28±0.26 | 5.23±0.93 |
| E040 | Mango, ripe, neelam (<i>Mangifera indica</i>) | 2 | 2.46 | 4.30 | 9.19 | 3.10 | 1.84 | 1.22 | 3.38 | 5.61 | 1.33 | 6.29 |
| E041 | Mango, ripe, paheri (<i>Mangifera indica</i>) | 2 | 1.94 | 4.36 | 8.25 | 3.44 | 1.20 | 0.94 | 3.94 | 5.45 | 1.49 | 6.13 |
| E042 | Mango, ripe, totapari (<i>Mangifera indica</i>) | 1 | 2.07 | 4.20 | 8.85 | 3.51 | 1.65 | 0.90 | 4.15 | 5.25 | 1.21 | 5.92 |

Table 8. Amino Acid Profile

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| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|------------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| E022 | Grapes, seeded, round, black (<i>Vitis vinifera</i>) | 4 | 6.56±0.46 | 5.97±0.35 | 9.65±0.78 | 22.50±3.32 | 3.35±0.42 | 4.72±0.68 | 4.59±0.51 | 2.24±0.68 |
| E023 | Grapes, seeded, round, green (<i>Vitis vinifera</i>) | 5 | 7.11±0.65 | 6.58±0.22 | 10.41±0.69 | 21.65±1.32 | 3.44±0.28 | 4.29±1.41 | 4.61±0.48 | 2.34±0.61 |
| E024 | Grapes, seeded, round, red (<i>Vitis vinifera</i>) | 5 | 6.32±1.55 | 6.50±0.24 | 10.87±0.98 | 19.45±0.92 | 3.18±0.14 | 4.72±0.27 | 4.79±0.19 | 2.49±0.30 |
| E025 | Grapes, seedless, oval, black (<i>Vitis vinifera</i>) | 5 | 7.26±0.33 | 6.86±0.19 | 10.39±0.48 | 22.33±0.97 | 4.27±0.61 | 5.39±0.26 | 5.26±0.49 | 2.01±0.16 |
| E026 | Grapes, seedless, round, green (<i>Vitis vinifera</i>) | 5 | 7.35±0.85 | 7.01±0.57 | 10.39±0.78 | 21.53±0.31 | 3.46±0.42 | 4.84±2.08 | 4.69±0.46 | 2.40±0.02 |
| E027 | Grapes, seedless, round, black (<i>Vitis vinifera</i>) | 5 | 6.05±0.18 | 6.46±0.35 | 10.60±0.36 | 18.37±0.78 | 3.76±0.27 | 6.93±0.17 | 4.83±0.37 | 2.06±0.19 |
| E028 | Guava, white flesh (<i>Psidium guajava</i>) | 5 | 6.26±0.88 | 3.18±0.23 | 19.73±3.56 | 15.70±1.14 | 6.12±0.61 | 5.56±0.51 | 3.80±0.59 | 2.66±0.07 |
| E029 | Guava, pink flesh (<i>Psidium guajava</i>) | 5 | 6.52±0.86 | 3.31±0.27 | 19.16±1.61 | 15.59±0.74 | 6.98±0.98 | 5.67±0.35 | 4.19±0.33 | 2.63±0.33 |
| E030 | Jack fruit, ripe (<i>Artocarpus heterophyllus</i>) | 5 | 6.16±0.67 | 3.22±0.88 | 26.27±5.38 | 9.24±1.33 | 5.40±1.49 | 4.42±0.76 | 5.39±1.72 | 3.22±1.06 |
| E031 | Jambu fruit, ripe (<i>Syzygium cumini</i>) | 2 | 7.04 | 1.54 | 11.99 | 15.22 | 6.59 | 6.09 | 5.54 | 3.23 |
| E032 | Karonda fruit (<i>Carissa carandas</i>) | 1 | 5.62 | 4.21 | 15.38 | 15.62 | 3.85 | 3.82 | 4.85 | 3.12 |
| E033 | Lemon, juice (<i>Citrus limon</i>) | 6 | 5.22±0.55 | 4.28±0.47 | 20.55±1.50 | 15.10±0.71 | 2.03±0.27 | 7.60±0.83 | 3.86±0.33 | 1.35±0.19 |
| E034 | Lime, sweet,pulp (<i>Citrus limetta</i>) | 6 | 3.39±0.72 | 1.30±0.81 | 19.78±1.90 | 5.41±1.07 | 2.16±0.39 | 6.81±1.29 | 3.40±0.46 | 0.80±0.19 |
| E035 | Litchi (<i>Nephelium litchi</i>) | 4 | 10.56±1.75 | 2.24±0.75 | 11.65±0.62 | 16.07±1.40 | 5.56±0.45 | 5.72±1.59 | 5.16±0.51 | 2.92±0.73 |
| E036 | Mango, ripe, banganapalli (<i>Mangifera indica</i>) | 6 | 8.21±0.31 | 4.26±1.36 | 11.58±0.78 | 15.60±1.03 | 5.88±0.57 | 4.07±1.13 | 4.14±0.35 | 2.21±0.49 |
| E037 | Mango, ripe, gulabkhas (<i>Mangifera indica</i>) | 2 | 9.02 | 4.64 | 11.82 | 14.59 | 5.25 | 3.97 | 4.53 | 2.41 |
| E038 | Mango, ripe, himsagar (<i>Mangifera indica</i>) | 3 | 10.14±0.58 | 4.41±0.94 | 12.41±1.44 | 14.99±0.30 | 5.99±0.47 | 4.11±0.74 | 4.44±0.37 | 2.82±0.77 |
| E039 | Mango, ripe, kesar (<i>Mangifera indica</i>) | 4 | 8.62±0.43 | 4.48±0.83 | 12.75±1.15 | 14.51±1.20 | 6.13±0.73 | 4.24±0.40 | 4.52±0.25 | 2.70±0.35 |
| E040 | Mango, ripe, neelam (<i>Mangifera indica</i>) | 2 | 9.93 | 4.29 | 12.33 | 15.06 | 6.03 | 3.48 | 6.55 | 2.54 |
| E041 | Mango, ripe, paheri (<i>Mangifera indica</i>) | 2 | 9.03 | 3.90 | 12.19 | 14.82 | 5.49 | 3.95 | 4.06 | 2.45 |
| E042 | Mango, ripe, totapari (<i>Mangifera indica</i>) | 1 | 8.84 | 4.53 | 13.49 | 13.95 | 5.86 | 3.47 | 4.26 | 2.27 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|---|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | <div><div><</div><div>g</div><div>></div></div> | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| E043 | Mangosteen (<i>Garcinia mangostana</i>) | 1 | 2.51 | 4.54 | 9.10 | 2.83 | 1.29 | 0.81 | 6.21 | 6.87 | 1.21 | 5.36 |
| E044 | Manila tamarind (<i>Pithecellobium dulce</i>) | 1 | 2.78 | 3.64 | 5.60 | 2.21 | 1.26 | 0.59 | 4.35 | 4.81 | 1.14 | 4.92 |
| E045 | Musk melon, orange flesh (<i>Cucumis melon</i>) | 5 | 0.93±0.14 | 1.75±0.37 | 4.09±1.02 | 1.84±0.25 | 0.89±0.10 | 0.79±0.07 | 1.82±0.48 | 3.60±0.83 | 0.56±0.17 | 3.33±0.42 |
| E046 | Musk melon, yellow flesh (<i>Cucumis melon</i>) | 6 | 0.88±0.02 | 2.72±0.21 | 3.67±0.95 | 2.27±0.10 | 0.89±0.04 | 0.80±0.31 | 1.62±0.38 | 2.81±0.14 | 0.52±0.16 | 3.06±0.43 |
| E047 | Orange, pulp (<i>Citrus aurantium</i>) | 6 | 0.70±0.16 | 1.39±0.34 | 2.11±0.12 | 2.98±0.38 | 0.53±0.10 | 0.48±0.06 | 1.77±0.20 | 1.52±0.13 | 0.54±0.05 | 2.12±0.39 |
| E048 | Palm fruit, tender (<i>Borassus flabellifer</i>) | 1 | 3.14 | 4.16 | 3.74 | 2.35 | 0.85 | 1.10 | 2.76 | 4.32 | 0.44 | 4.31 |
| E049 | Papaya, ripe (<i>Carcia papaya</i>) | 6 | 0.87±0.36 | 2.27±0.24 | 4.43±0.26 | 4.91±0.40 | 0.68±0.06 | 0.73±0.07 | 1.93±0.11 | 3.27±0.64 | 1.66±0.09 | 3.93±0.79 |
| E050 | Peach (<i>Prunus communis</i>) | 1 | 1.53 | 2.54 | 5.49 | 2.75 | 0.98 | 1.21 | 2.95 | 4.92 | 0.43 | 5.43 |
| E051 | Pear (<i>Pyrus</i> sp.) | 6 | 1.39±0.30 | 3.65±0.28 | 4.95±0.89 | 2.27±0.35 | 1.05±0.22 | 0.87±0.33 | 3.04±1.21 | 3.64±0.51 | 0.58±0.13 | 5.10±0.31 |
| E052 | Phalsa (<i>Grewia asiatica</i>) | 2 | 1.91 | 4.44 | 7.19 | 2.82 | 2.05 | 1.10 | 4.84 | 4.18 | 0.66 | 5.76 |
| E053 | Pineapple (<i>Ananas comosus</i>) | 6 | 1.37±0.58 | 2.61±0.69 | 3.97±0.44 | 4.03±0.10 | 1.06±0.28 | 2.23±0.06 | 2.59±0.70 | 3.01±0.87 | 1.09±0.14 | 4.07±0.92 |
| E054 | Plum (<i>Prunus domestica</i>) | 3 | 1.33±0.18 | 2.20±0.22 | 3.82±0.10 | 2.97±0.13 | 1.08±0.12 | 1.89±0.15 | 2.75±0.14 | 2.33±0.18 | 1.21±0.10 | 3.63±0.18 |
| E055 | Pomegranate, maroon seeds (<i>Punica granatum</i>) | 6 | 1.94±0.16 | 1.67±0.57 | 4.87±0.64 | 1.15±0.44 | 0.61±0.25 | 0.89±0.29 | 3.18±0.55 | 2.59±0.42 | 0.46±0.08 | 2.40±0.42 |
| E056 | Pummelo (<i>Citrus maxima</i>) | 3 | 1.76±0.15 | 2.81±0.19 | 4.69±0.20 | 3.78±0.21 | 0.87±0.05 | 0.81±0.14 | 2.45±0.35 | 3.19±0.22 | 0.48±0.03 | 4.23±0.14 |
| E057 | Raisins, dried, black (<i>Vitis vinifera</i>) | 6 | 2.17±0.32 | 1.97±0.25 | 4.80±0.71 | 2.90±0.60 | 0.97±0.13 | 0.61±0.12 | 2.44±0.24 | 2.91±0.32 | 0.97±0.07 | 2.87±0.06 |
| E058 | Raisins, dried, golden (<i>Vitis vinifera</i>) | 6 | 2.92±0.43 | 1.88±0.19 | 4.26±0.32 | 3.04±0.40 | 0.74±0.11 | 0.78±0.16 | 2.51±0.50 | 3.39±0.77 | 0.70±0.33 | 2.84±0.55 |
| E059 | Rambutan (<i>Nephelium lappaceum</i>) | 1 | 3.38 | 1.90 | 4.66 | 3.54 | 1.12 | 0.76 | 2.41 | 4.01 | 1.25 | 4.77 |
| E060 | Sapota (<i>Achras sapota</i>) | 6 | 3.61±0.37 | 3.52±0.25 | 6.10±0.43 | 4.93±0.59 | 0.82±0.24 | 0.51±0.15 | 3.95±0.54 | 4.68±0.48 | 0.75±0.09 | 5.03±0.64 |
| E061 | Soursop (<i>Annona muricata</i>) | 1 | 2.93 | 4.45 | 6.62 | 4.67 | 1.02 | 0.57 | 4.99 | 4.56 | 0.84 | 5.91 |
| E062 | Star fruit (<i>Averrhoa carambola</i>) | 1 | 2.60 | 2.80 | 5.67 | 5.30 | 0.91 | 0.74 | 4.07 | 3.89 | 0.87 | 4.21 |
| E063 | Strawberry (<i>Fragaria ananassa</i>) | 6 | 2.56±0.31 | 3.61±0.53 | 5.61±0.44 | 3.14±0.29 | 0.86±0.09 | 0.67±0.11 | 2.50±0.28 | 4.32±0.24 | 0.93±0.17 | 4.51±0.38 |
| E064 | Tamarind, pulp (<i>Tamarindus indicus</i>) | 6 | 2.58±0.50 | 3.28±0.75 | 5.58±0.54 | 5.18±0.61 | 0.84±0.15 | 0.71±0.15 | 5.46±0.73 | 3.26±0.51 | 0.85±0.15 | 4.02±0.72 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|---|------------|---------------|---------------|-----------|------------|-----------|-----------|
| | | | <div><div></div><div>g</div><div></div></div> | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| E043 | Mangosteen (<i>Garcinia mangostana</i>) | 1 | 7.60 | 2.64 | 14.16 | 13.30 | 7.07 | 4.27 | 4.76 | 2.86 |
| E044 | Manila tamarind (<i>Pithecellobium dulce</i>) | 1 | 6.25 | 3.35 | 13.85 | 16.45 | 4.21 | 3.56 | 4.86 | 1.85 |
| E045 | Musk melon, orange flesh (<i>Cucumis melon</i>) | 5 | 12.72±1.30 | 2.12±0.39 | 10.60±0.69 | 28.92±5.33 | 3.89±0.82 | 2.97±0.30 | 4.26±0.82 | 1.65±0.29 |
| E046 | Musk melon, yellow flesh (<i>Cucumis melon</i>) | 6 | 12.94±0.55 | 2.51±0.43 | 9.99±1.19 | 25.89±6.58 | 3.76±1.70 | 3.20±0.15 | 4.82±1.13 | 1.69±0.11 |
| E047 | Orange, pulp (<i>Citrus aurantium</i>) | 6 | 2.28±1.28 | 6.51±0.26 | 13.29±2.66 | 5.82±1.15 | 2.46±0.27 | 12.17±2.77 | 3.38±0.25 | 1.08±0.15 |
| E048 | Palm fruit, tender (<i>Borassus flabellifer</i>) | 1 | 6.84 | 3.85 | 13.86 | 16.82 | 4.56 | 4.17 | 5.18 | 1.25 |
| E049 | Papaya, ripe (<i>Carcia papaya</i>) | 6 | 4.23±0.42 | 2.59±0.51 | 15.42±1.42 | 13.85±3.84 | 5.23±0.19 | 4.55±0.97 | 4.70±0.95 | 2.85±0.63 |
| E050 | Peach (<i>Prunus communis</i>) | 1 | 5.77 | 4.14 | 21.02 | 19.19 | 3.23 | 4.07 | 4.79 | 1.78 |
| E051 | Pear (<i>Pyrus</i> sp.) | 6 | 6.55±0.35 | 2.48±0.41 | 25.05±2.31 | 11.67±1.81 | 4.31±0.62 | 3.64±0.62 | 4.46±0.26 | 1.36±0.13 |
| E052 | Phalsa (<i>Grewia asiatica</i>) | 2 | 5.27 | 5.86 | 12.12 | 18.54 | 4.96 | 5.31 | 5.01 | 2.18 |
| E053 | Pineapple (<i>Ananas comosus</i>) | 6 | 6.94±0.99 | 2.64±0.71 | 27.04±8.48 | 14.92±3.44 | 5.32±1.65 | 3.76±0.81 | 5.31±1.27 | 3.10±0.21 |
| E054 | Plum (<i>Prunus domestica</i>) | 3 | 4.25±0.23 | 2.67±0.25 | 32.17±0.94 | 4.85±0.07 | 2.06±0.19 | 5.83±0.09 | 4.23±0.12 | 1.61±0.14 |
| E055 | Pomegranate, maroon seeds (<i>Punica granatum</i>) | 6 | 4.80±0.80 | 8.35±2.12 | 8.50±0.32 | 27.33±2.29 | 3.55±0.14 | 3.46±0.43 | 4.83±0.49 | 1.83±0.39 |
| E056 | Pummelo (<i>Citrus maxima</i>) | 3 | 7.62±0.38 | 5.19±0.54 | 27.70±1.20 | 12.35±0.25 | 2.74±0.17 | 9.41±0.30 | 4.78±0.11 | 1.83±0.08 |
| E057 | Raisins, dried, black (<i>Vitis vinifera</i>) | 6 | 6.28±0.60 | 13.13±2.04 | 7.35±1.24 | 10.49±0.33 | 3.29±0.87 | 8.53±0.43 | 4.32±0.37 | 2.20±0.71 |
| E058 | Raisins, dried, golden (<i>Vitis vinifera</i>) | 6 | 6.64±0.98 | 14.04±0.69 | 6.30±0.39 | 11.02±0.23 | 3.75±0.26 | 9.38±0.47 | 5.15±0.93 | 1.56±0.35 |
| E059 | Rambutan (<i>Nephelium lappaceum</i>) | 1 | 5.87 | 6.75 | 12.73 | 28.08 | 6.62 | 4.66 | 2.69 | 2.70 |
| E060 | Sapota (<i>Achras sapota</i>) | 6 | 5.92±0.62 | 6.70±0.44 | 10.90±0.95 | 10.63±1.16 | 5.20±0.61 | 3.80±0.22 | 5.60±0.48 | 3.35±0.47 |
| E061 | Soursop (<i>Annona muricata</i>) | 1 | 4.30 | 3.63 | 15.84 | 19.99 | 5.07 | 5.69 | 5.17 | 3.31 |
| E062 | Star fruit (<i>Averrhoa carambola</i>) | 1 | 6.10 | 5.37 | 17.40 | 18.55 | 4.45 | 3.35 | 4.67 | 3.89 |
| E063 | Strawberry (<i>Fragaria ananassa</i>) | 6 | 4.98±0.30 | 4.51±0.30 | 19.70±1.69 | 15.88±0.98 | 5.63±0.39 | 3.41±0.18 | 4.10±0.28 | 2.88±0.29 |
| E064 | Tamarind, pulp (<i>Tamarindus indicus</i>) | 6 | 4.34±0.41 | 3.15±0.42 | 12.28±0.72 | 15.19±0.82 | 4.01±0.43 | 5.04±0.48 | 3.51±0.39 | 3.43±0.49 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| E065 | Water melon, dark green (sugar baby) (<i>Citrullus vulgaris</i>) | 6 | 2.34±0.16 | 3.34±0.18 | 2.87±0.19 | 3.36±0.23 | 0.78±0.08 | 0.77±0.05 | 2.58±0.28 | 4.60±0.38 | 1.15±0.24 | 3.54±0.21 |
| E066 | Water melon, pale green (<i>Citrullus vulgaris</i>) | 6 | 2.80±0.09 | 3.49±0.24 | 3.10±0.16 | 2.91±0.11 | 0.94±0.25 | 0.84±0.08 | 2.69±0.17 | 4.31±0.17 | 1.13±0.14 | 3.64±0.08 |
| E067 | Wood Apple (<i>Limonia acidissima</i>) | 3 | 1.20±0.21 | 3.93±0.09 | 3.17±0.10 | 2.58±0.05 | 0.85±0.13 | 0.41±0.11 | 2.98±2.82 | 2.01±0.30 | 0.85±0.05 | 3.72±0.29 |
| E068 | Zizyphus(<i>Zizyphus jujube</i>) | 1 | 1.84 | 4.09 | 3.59 | 1.50 | 1.06 | 1.54 | 3.47 | 2.35 | 0.88 | 4.67 |

| F ROOTS AND TUBERS | | | | | | | | | | | | |
|--------------------|--|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F001 | Beet root (<i>Beta vulgaris</i>) | 6 | 2.21±0.36 | 3.90±0.46 | 5.08±0.47 | 4.58±0.48 | 0.88±0.20 | 0.61±0.07 | 2.31±0.43 | 3.60±0.68 | 0.86±0.14 | 5.60±0.58 |
| F002 | Carrot, orange (<i>Dacus carota</i>) | 6 | 1.38±0.21 | 3.56±0.57 | 4.84±0.52 | 3.36±0.23 | 0.78±0.11 | 0.90±0.14 | 2.84±0.64 | 3.98±0.62 | 1.01±0.08 | 4.58±1.24 |
| F003 | Carrot, red (<i>Dacus carota</i>) | 4 | 1.34±0.05 | 3.04±0.36 | 4.14±0.38 | 2.53±0.21 | 0.90±0.03 | 0.77±0.05 | 2.21±0.47 | 3.00±0.43 | 1.13±0.17 | 4.47±0.38 |
| F004 | Colocasia (<i>Colocasia antiquorum</i>) | 6 | 2.03±0.19 | 3.06±0.28 | 6.36±0.48 | 3.93±0.17 | 0.77±0.17 | 1.39±0.23 | 5.22±0.35 | 3.40±0.41 | 1.16±0.38 | 5.37±0.69 |
| F005 | Lotus root (<i>Nelumbium nelumbo</i>) | 3 | 1.71±0.13 | 3.38±0.49 | 5.47±0.74 | 3.43±0.49 | 0.82±0.02 | 1.03±0.10 | 4.32±1.18 | 3.95±0.37 | 1.02±0.05 | 4.57±0.29 |
| F006 | Potato, brown skin, big (<i>Solanum tuberosum</i>) | 6 | 1.56±0.49 | 3.34±0.82 | 6.44±0.63 | 5.51±0.41 | 1.00±0.24 | 0.83±0.20 | 5.61±1.70 | 3.50±0.52 | 1.03±0.13 | 4.29±1.33 |
| F007 | Potato, brown skin, small (<i>Solanum tuberosum</i>) | 1 | 1.37 | 3.77 | 7.36 | 5.78 | 1.17 | 0.74 | 4.11 | 4.08 | 1.19 | 4.23 |
| F008 | Potato, red skin (<i>Solanum tuberosum</i>) | 1 | 1.25 | 3.19 | 5.64 | 5.46 | 0.96 | 0.79 | 4.59 | 4.06 | 1.20 | 3.26 |
| F009 | Radish, elongate, red skin (<i>Raphanus sativus</i>) | 3 | 1.70±0.03 | 3.49±0.68 | 5.47±0.36 | 3.35±0.29 | 0.76±0.10 | 0.99±0.12 | 3.41±0.12 | 4.20±0.42 | 0.56±0.07 | 5.15±0.02 |
| F010 | Radish, elongate, white skin (<i>Raphanus sativus</i>) | 6 | 1.78±0.15 | 3.33±0.50 | 6.14±1.31 | 3.02±0.19 | 0.77±0.15 | 0.85±0.14 | 3.26±0.12 | 4.03±0.49 | 0.52±0.08 | 5.57±0.81 |
| F011 | Radish, round, red skin (<i>Raphanus sativus</i>) | 1 | 1.89 | 3.55 | 6.19 | 2.71 | 0.64 | 0.83 | 3.84 | 4.05 | 0.58 | 5.27 |
| F012 | Radish, round, white skin (<i>Raphanus sativus</i>) | 2 | 1.45 | 3.16 | 5.50 | 2.80 | 0.77 | 0.94 | 3.12 | 3.66 | 0.60 | 5.18 |
| F013 | Sweet potato, brown skin (<i>Ipomoes batatas</i>) | 4 | 1.99±0.36 | 4.56±0.17 | 7.66±0.69 | 4.27±1.80 | 1.63±0.11 | 1.31±0.24 | 6.37±0.92 | 5.41±0.61 | 1.90±0.12 | 5.57±0.59 |
| F014 | Sweet potato, pink skin (<i>Ipomoes batatas</i>) | 3 | 1.86±0.30 | 4.42±0.54 | 7.23±0.51 | 4.00±0.81 | 1.67±0.25 | 1.12±0.12 | 5.35±0.50 | 5.21±0.57 | 1.46±0.06 | 5.72±0.40 |
| F015 | Tapioca (<i>Manihot esculenta</i>) | 3 | 2.01±0.54 | 2.32±0.11 | 7.51±0.82 | 2.96±0.67 | 0.80±0.11 | 1.44±0.09 | 5.29±0.75 | 5.00±0.53 | 0.70±0.15 | 4.72±0.46 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | g | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| E065 | Water melon, dark green (sugar baby) (<i>Citrullus vulgaris</i>) | 6 | 3.86±0.15 | 7.87±0.29 | 16.26±1.09 | 13.85±0.41 | 1.74±0.26 | 3.70±0.15 | 2.51±0.19 | 1.89±0.20 |
| E066 | Water melon, pale green (<i>Citrullus vulgaris</i>) | 6 | 4.04±0.29 | 8.19±0.27 | 16.50±0.83 | 14.70±0.54 | 2.40±0.27 | 4.21±0.14 | 3.47±0.25 | 1.87±0.14 |
| E067 | Wood Apple (<i>Limonia acidissima</i>) | 3 | 5.51±0.81 | 7.54±1.48 | 31.42±4.82 | 15.65±3.76 | 2.92±0.77 | 4.20±1.18 | 4.26±0.53 | 2.51±0.21 |
| E068 | Zizyphus(<i>Zizyphus jujube</i>) | 1 | 4.62 | 5.51 | 31.84 | 17.33 | 3.14 | 2.52 | 3.86 | 3.46 |

F ROOTS AND TUBERS

| | | | | | | | | | | |
|------|--|---|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| F001 | Beet root (<i>Beta vulgaris</i>) | 6 | 8.76±0.71 | 3.51±0.25 | 7.52±0.76 | 28.73±0.85 | 3.37±0.44 | 3.35±0.32 | 4.28±0.36 | 2.76±0.56 |
| F002 | Carrot, orange (<i>Dacus carota</i>) | 6 | 10.44±1.52 | 3.30±0.91 | 14.35±1.39 | 26.56±3.69 | 3.64±0.66 | 3.74±0.72 | 3.72±0.53 | 1.71±0.78 |
| F003 | Carrot, red (<i>Dacus carota</i>) | 4 | 10.23±2.20 | 2.47±0.13 | 15.01±0.32 | 28.68±0.42 | 3.07±0.47 | 5.50±2.64 | 3.97±0.68 | 1.74±0.03 |
| F004 | Colocasia (<i>Colocasia antiquorum</i>) | 6 | 4.74±0.61 | 7.60±0.91 | 12.77±1.06 | 14.22±0.85 | 4.57±0.51 | 4.03±0.94 | 4.17±0.39 | 3.89±0.26 |
| F005 | Lotus root (<i>Nelumbium nelumbo</i>) | 3 | 5.11±1.11 | 5.57±0.58 | 26.00±5.38 | 14.81±2.20 | 3.91±0.43 | 3.16±0.96 | 4.33±0.23 | 2.70±0.11 |
| F006 | Potato, brown skin, big (<i>Solanum tuberosum</i>) | 6 | 5.81±1.42 | 3.58±0.72 | 21.07±0.46 | 18.54±0.61 | 3.31±0.07 | 3.60±0.49 | 4.39±0.84 | 3.23±0.54 |
| F007 | Potato, brown skin, small (<i>Solanum tuberosum</i>) | 1 | 5.63 | 3.55 | 9.76 | 19.04 | 3.00 | 3.19 | 4.17 | 2.94 |
| F008 | Potato, red skin (<i>Solanum tuberosum</i>) | 1 | 7.52 | 3.64 | 6.81 | 20.40 | 2.80 | 3.36 | 4.54 | 3.92 |
| F009 | Radish, elongate, red skin (<i>Raphanus sativus</i>) | 3 | 7.36±0.11 | 4.53±0.01 | 9.70±0.96 | 28.02±1.14 | 4.08±0.05 | 4.29±0.13 | 4.33±0.05 | 1.62±0.30 |
| F010 | Radish, elongate, white skin (<i>Raphanus sativus</i>) | 6 | 7.49±1.02 | 4.15±0.94 | 9.78±1.30 | 26.26±6.49 | 4.51±1.56 | 4.28±1.11 | 4.55±1.16 | 1.73±0.32 |
| F011 | Radish, round, red skin (<i>Raphanus sativus</i>) | 1 | 7.12 | 4.89 | 10.10 | 24.98 | 4.12 | 4.84 | 4.01 | 1.43 |
| F012 | Radish, round, white skin (<i>Raphanus sativus</i>) | 2 | 7.37 | 4.16 | 10.49 | 27.62 | 3.83 | 4.45 | 4.12 | 1.78 |
| F013 | Sweet potato, brown skin (<i>Ipomoeas batatas</i>) | 4 | 8.00±1.11 | 3.48±1.23 | 22.80±1.34 | 9.65±0.44 | 4.90±0.66 | 3.83±0.07 | 5.21±0.44 | 3.26±0.41 |
| F014 | Sweet potato, pink skin (<i>Ipomoeas batatas</i>) | 3 | 8.18±2.81 | 3.19±0.54 | 14.21±1.92 | 10.60±1.50 | 5.46±0.72 | 3.98±0.77 | 5.26±0.27 | 2.69±0.30 |
| F015 | Tapioca (<i>Manihot esculenta</i>) | 3 | 8.75±1.23 | 3.77±0.98 | 13.86±2.02 | 14.54±1.41 | 5.65±0.65 | 3.83±0.65 | 5.76±0.55 | 1.92±0.74 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|--------------------------------------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| F016 | Water Chestnut (<i>Eleocharis dulcis</i>) | 1 | 1.86 | 3.27 | 5.85 | 3.76 | 0.98 | 1.23 | 4.64 | 3.75 | 1.06 | 3.80 |
| F017 | Yam, elephant (<i>Amorphophallus campanulatus</i>) | 6 | 2.89±0.11 | 3.36±0.24 | 6.00±0.56 | 2.99±0.38 | 1.55±0.16 | 1.66±0.10 | 6.46±0.71 | 3.81±0.33 | 1.13±0.04 | 5.84±0.49 |
| F018 | Yam, ordinary (<i>Amorphophallus campanulatus</i>) | 4 | 2.86±0.65 | 3.82±0.72 | 6.71±0.18 | 4.27±0.28 | 1.42±0.21 | 1.65±0.16 | 4.54±1.15 | 3.54±0.28 | 0.96±0.14 | 4.62±0.90 |
| F019 | Yam, wild (<i>Dioscorea versicolor</i>) | 2 | 2.37 | 3.27 | 6.09 | 3.13 | 1.18 | 1.76 | 6.23 | 4.00 | 1.25 | 5.98 |
| G CONDIMENTS AND SPICES-FRESH | | | | | | | | | | | | |
| G001 | Chillies, green-1 (<i>Capsicum annum</i>) | 5 | 1.77±0.38 | 3.64±0.46 | 5.13±1.07 | 3.43±0.59 | 1.17±0.12 | 1.52±0.31 | 4.33±0.68 | 3.87±0.72 | 0.82±0.14 | 4.43±1.19 |
| G002 | Chillies, green-2 (<i>Capsicum annum</i>) | 3 | 1.62±0.18 | 3.16±0.32 | 5.02±0.32 | 3.58±0.52 | 1.25±0.09 | 1.41±0.22 | 4.25±0.31 | 3.84±0.29 | 0.75±0.06 | 4.22±0.48 |
| G003 | Chillies, green-3 (<i>Capsicum annum</i>) | 5 | 1.76±0.25 | 2.99±0.34 | 4.94±0.23 | 3.95±0.24 | 1.04±0.14 | 1.61±0.23 | 4.54±1.01 | 3.67±0.52 | 0.80±0.14 | 4.07±0.44 |
| G004 | Chillies, green-4 (<i>Capsicum annum</i>) | 3 | 1.82±0.12 | 3.08±0.68 | 4.99±0.37 | 3.41±0.82 | 1.05±0.10 | 1.22±0.12 | 4.59±0.32 | 3.67±0.32 | 0.72±0.11 | 3.88±0.47 |
| G005 | Chillies, green-5 (<i>Capsicum annum</i>) | 2 | 1.54±0.15 | 2.86±0.50 | 5.01±0.28 | 3.79±0.29 | 0.86±0.15 | 1.01±0.05 | 5.47±0.43 | 3.52±0.17 | 0.68±0.09 | 3.82±0.76 |
| G006 | Chillies, green-6 (<i>Capsicum annum</i>) | 1 | 1.49 | 2.97 | 4.97 | 3.65 | 0.66 | 0.98 | 4.76 | 2.95 | 0.92 | 3.08 |
| G007 | Chillies, green-7 (<i>Capsicum annum</i>) | 1 | 2.00 | 2.89 | 5.40 | 4.09 | 1.18 | 1.68 | 6.25 | 3.14 | 0.80 | 3.24 |
| G008 | Chillies, green - all varieties (<i>Capsicum annum</i>) | 6 | 1.72±0.28 | 3.14±0.47 | 5.05±0.54 | 3.66±0.51 | 1.09±0.18 | 1.40±0.29 | 4.69±0.82 | 3.66±0.47 | 0.77±0.11 | 4.02±0.72 |
| G009 | Coriander leaves (<i>Coriandrum sativum</i>) | 6 | 2.48±0.39 | 4.37±0.24 | 6.08±0.63 | 5.19±0.28 | 1.30±0.14 | 0.63±0.05 | 5.35±0.50 | 4.00±0.45 | 1.08±0.07 | 6.44±0.30 |
| G010 | Curry leaves (<i>Murraya koenigii</i>) | 6 | 1.73±0.13 | 3.75±0.17 | 6.51±0.30 | 3.66±0.30 | 0.50±0.09 | 0.60±0.06 | 3.50±0.33 | 3.88±0.26 | 1.64±0.25 | 3.92±0.15 |
| G011 | Garlic, big clove (<i>Allium sativum</i>) | 6 | 1.33±0.17 | 2.25±0.33 | 3.79±0.24 | 4.11±0.29 | 0.75±0.19 | 1.71±0.38 | 3.53±0.52 | 3.18±0.47 | 0.83±0.09 | 3.17±0.63 |
| G012 | Garlic, small clove (<i>Allium sativum</i>) | 3 | 1.26±0.06 | 2.24±0.41 | 4.07±0.47 | 3.94±0.26 | 0.76±0.06 | 1.93±0.21 | 3.27±0.37 | 3.08±0.42 | 0.73±0.23 | 3.79±0.99 |
| G013 | Garlic, single clove, Kashmir (<i>Allium sativum</i>) | 1 | 1.30 | 3.44 | 5.68 | 4.15 | 0.69 | 1.66 | 3.46 | 3.65 | 0.97 | 3.58 |
| G014 | Ginger, fresh (<i>Zinziber officinale</i>) | 6 | 1.58±0.17 | 3.98±0.47 | 6.49±0.51 | 2.31±0.48 | 0.89±0.29 | 0.82±0.18 | 4.36±0.40 | 4.35±0.47 | 0.99±0.17 | 4.35±0.65 |
| G015 | Mango ginger (<i>Curcuma amada</i>) | 3 | 2.05±0.17 | 4.30±0.65 | 9.80±0.11 | 1.88±0.56 | 1.11±0.05 | 0.80±0.19 | 4.52±0.28 | 5.70±0.67 | 1.29±0.23 | 4.79±0.31 |
| G016 | Mint leaves (<i>Mentha spicata</i>) | 4 | 1.62±0.29 | 4.34±0.30 | 8.22±0.38 | 2.93±0.19 | 1.41±0.09 | 0.72±0.08 | 5.34±0.47 | 4.57±0.30 | 1.23±0.17 | 5.73±0.38 |

Table 8. Amino Acid Profile

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-------------------------------|---|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| F016 | Water Chestnut (<i>Eleocharis dulcis</i>) | 1 | 6.21 | 5.43 | 15.82 | 14.54 | 5.21 | 3.68 | 5.86 | 3.62 |
| F017 | Yam, elephant (<i>Amorphophallus campanulatus</i>) | 6 | 5.37±0.72 | 9.26±1.01 | 11.47±0.72 | 16.63±1.63 | 4.61±0.27 | 5.03±0.59 | 6.48±0.57 | 3.17±0.43 |
| F018 | Yam, ordinary (<i>Amorphophallus campanulatus</i>) | 4 | 5.82±1.28 | 7.78±1.35 | 11.40±1.41 | 14.97±1.28 | 4.52±0.84 | 4.47±0.77 | 5.48±1.22 | 3.09±0.56 |
| F019 | Yam, wild (<i>Dioscorea versicolor</i>) | 2 | 6.78 | 8.61 | 11.93 | 16.15 | 4.78 | 5.30 | 6.28 | 3.34 |
| G CONDIMENTS AND SPICES-FRESH | | | | | | | | | | |
| G001 | Chillies, green-1 (<i>Capsicum annum</i>) | 5 | 4.98±0.69 | 4.99±1.66 | 16.33±2.33 | 16.66±1.36 | 4.95±0.80 | 3.16±0.45 | 4.59±0.40 | 2.71±0.45 |
| G002 | Chillies, green-2 (<i>Capsicum annum</i>) | 3 | 4.79±0.79 | 4.83±0.67 | 16.93±1.43 | 18.31±0.86 | 4.03±0.52 | 2.81±0.30 | 4.17±0.47 | 2.49±0.39 |
| G003 | Chillies, green-3 (<i>Capsicum annum</i>) | 5 | 5.01±0.51 | 4.78±0.26 | 18.29±1.17 | 19.15±0.59 | 4.57±0.42 | 2.65±0.30 | 4.66±0.38 | 2.58±0.33 |
| G004 | Chillies, green-4 (<i>Capsicum annum</i>) | 3 | 4.60±0.59 | 4.78±0.33 | 17.72±0.78 | 17.31±0.54 | 4.98±0.48 | 2.76±0.31 | 4.21±0.35 | 2.93±0.25 |
| G005 | Chillies, green-5 (<i>Capsicum annum</i>) | 2 | 5.12±0.29 | 4.36±0.14 | 17.19±1.22 | 17.64±0.77 | 4.40±0.04 | 2.71±0.21 | 4.70±0.40 | 2.51±0.42 |
| G006 | Chillies, green-6 (<i>Capsicum annum</i>) | 1 | 3.91 | 4.30 | 18.43 | 19.59 | 3.64 | 2.08 | 4.01 | 2.11 |
| G007 | Chillies, green-7 (<i>Capsicum annum</i>) | 1 | 5.02 | 5.13 | 16.38 | 17.96 | 3.69 | 3.44 | 4.37 | 2.93 |
| G008 | Chillies, green - all varieties (<i>Capsicum annum</i>) | 6 | 4.86±0.62 | 4.79±0.79 | 17.24±1.50 | 17.94±1.20 | 4.46±0.65 | 2.85±0.41 | 4.42±0.42 | 2.64±0.38 |
| G009 | Coriander leaves (<i>Coriandrum sativum</i>) | 6 | 5.56±0.51 | 5.04±0.18 | 14.75±1.81 | 12.31±1.23 | 5.07±0.69 | 4.09±0.27 | 3.94±0.63 | 3.42±0.36 |
| G010 | Curry leaves (<i>Murraya koenigii</i>) | 6 | 7.75±0.50 | 4.64±0.53 | 15.17±0.79 | 11.12±0.54 | 6.48±0.49 | 6.19±0.33 | 5.94±0.38 | 2.81±0.17 |
| G011 | Garlic, big clove (<i>Allium sativum</i>) | 6 | 4.44±0.23 | 16.46±1.08 | 11.11±1.68 | 16.97±1.37 | 3.03±0.40 | 3.47±0.50 | 3.65±0.40 | 3.31±0.53 |
| G012 | Garlic, small clove (<i>Allium sativum</i>) | 3 | 3.73±0.23 | 14.66±0.47 | 10.45±0.81 | 17.60±1.05 | 2.94±0.28 | 3.92±1.30 | 3.20±0.22 | 3.27±0.19 |
| G013 | Garlic, single clove, Kashmir (<i>Allium sativum</i>) | 1 | 4.25 | 16.42 | 12.15 | 16.92 | 3.85 | 3.85 | 4.60 | 3.07 |
| G014 | Ginger, fresh (<i>Zinziber officinale</i>) | 6 | 4.73±0.69 | 5.93±0.68 | 15.34±1.84 | 13.82±1.64 | 4.91±0.73 | 3.28±0.71 | 4.80±0.87 | 3.78±0.32 |
| G015 | Mango ginger (<i>Curcuma amada</i>) | 3 | 4.59±0.67 | 4.35±0.75 | 17.86±1.67 | 14.13±0.21 | 5.51±0.22 | 4.03±1.17 | 5.05±0.69 | 3.29±0.29 |
| G016 | Mint leaves (<i>Mentha spicata</i>) | 4 | 5.25±0.12 | 4.96±0.14 | 13.21±1.43 | 15.47±0.99 | 5.46±0.49 | 4.81±0.72 | 4.54±0.20 | 3.32±0.28 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|------------------------------------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| G017 | Onion, big (<i>Allium cepa</i>) | 6 | 1.76±0.20 | 2.08±0.40 | 3.25±0.23 | 3.52±0.62 | 0.92±0.13 | 0.88±0.12 | 2.77±0.20 | 2.10±0.36 | 1.23±0.08 | 2.75±0.61 |
| G018 | Onion, small (<i>Allium cepa</i>) | 5 | 1.53±0.33 | 3.91±0.73 | 5.02±1.29 | 2.62±0.44 | 1.84±0.35 | 1.38±0.38 | 4.13±0.38 | 3.62±0.33 | 0.73±0.09 | 3.93±0.21 |
| G CONDIMENTS AND SPICES-DRY | | | | | | | | | | | | |
| G019 | Asafoetida (<i>Ferula assa-foetida</i>) | 6 | 2.19±0.84 | 2.49±0.15 | 5.61±0.50 | 2.21±0.45 | 0.70±0.16 | 0.89±0.39 | 4.35±0.62 | 2.74±0.27 | 1.23±0.11 | 1.84±0.27 |
| G020 | Cardamom, green (<i>Elettaria cardamomum</i>) | 6 | 1.91±0.29 | 2.15±0.45 | 7.24±0.57 | 3.24±0.44 | 1.20±0.18 | 1.06±0.21 | 4.32±1.07 | 3.03±0.50 | 0.96±0.05 | 2.85±0.22 |
| G021 | Cardamom, black (<i>Elettaria cardamomum</i>) | 4 | 1.82±0.04 | 1.80±0.15 | 6.02±0.22 | 2.58±0.05 | 0.86±0.03 | 0.79±0.04 | 3.39±0.07 | 2.95±0.07 | 0.86±0.18 | 2.64±0.16 |
| G022 | Chillies, red (<i>Capsicum annum</i>) | 6 | 2.11±0.19 | 3.75±0.41 | 6.38±0.59 | 4.19±0.25 | 1.26±0.38 | 1.74±0.13 | 5.09±0.81 | 4.08±0.56 | 0.92±0.18 | 4.82±0.57 |
| G023 | Cloves (<i>Syzygium aromaticum</i>) | 6 | 2.28±0.40 | 2.13±0.13 | 5.82±0.35 | 6.60±0.39 | 1.26±0.12 | 0.81±0.06 | 4.10±0.50 | 2.99±0.33 | 0.90±0.05 | 4.31±0.11 |
| G024 | Coriander seeds (<i>Coriandrum sativum</i>) | 6 | 2.85±0.22 | 4.52±0.40 | 6.73±0.42 | 5.62±0.25 | 2.04±0.16 | 0.99±0.07 | 4.09±0.30 | 4.02±0.26 | 1.18±0.16 | 6.24±0.39 |
| G025 | Cumin seeds (<i>Cuminum cyminum</i>) | 6 | 2.87±0.09 | 4.43±0.13 | 6.23±0.34 | 4.85±0.16 | 1.25±0.19 | 1.02±0.03 | 4.46±0.36 | 3.91±0.25 | 0.95±0.07 | 5.13±0.15 |
| G026 | Fenugreek seeds (<i>Trigonella foenum graecum</i>) | 6 | 2.28±0.40 | 4.57±0.34 | 6.00±0.41 | 6.60±0.39 | 1.22±0.08 | 1.38±0.16 | 4.10±0.50 | 2.85±0.16 | 1.19±0.01 | 4.43±0.54 |
| G027 | Mace (<i>Myristica fragrans</i>) | 6 | 1.89±0.19 | 2.35±0.26 | 5.78±0.52 | 2.61±0.50 | 1.18±0.01 | 1.31±0.10 | 4.29±0.94 | 5.26±0.67 | 1.26±0.07 | 3.09±0.89 |
| G028 | Nutmeg (<i>Myristica fragrans</i>) | 6 | 1.43±0.36 | 2.23±0.59 | 5.20±0.79 | 3.42±0.52 | 1.08±0.07 | 0.83±0.14 | 4.86±0.40 | 3.02±0.59 | 0.88±0.06 | 3.12±0.22 |
| G029 | Omum (<i>Trachyspermum ammi</i>) | 6 | 2.38±0.12 | 1.70±0.18 | 5.26±0.51 | 4.17±0.36 | 0.97±0.10 | 1.11±0.17 | 3.23±0.49 | 3.04±0.47 | 1.38±0.09 | 4.70±0.43 |
| G030 | Pippali (<i>Piper longum</i>) | 6 | 1.46±0.06 | 2.44±0.48 | 8.49±0.38 | 1.95±0.29 | 0.93±0.13 | 0.77±0.10 | 4.25±0.98 | 3.01±0.14 | 1.31±0.14 | 3.82±0.45 |
| G031 | Pepper, black (<i>Piper nigrum</i>) | 6 | 1.28±0.12 | 3.85±0.39 | 8.25±0.45 | 2.23±0.17 | 0.60±0.10 | 1.26±0.09 | 5.15±0.39 | 2.63±0.78 | 0.55±0.06 | 3.62±0.13 |
| G032 | Poppy seeds (<i>Papaver somniferum</i>) | 6 | 2.18±0.13 | 3.64±0.08 | 5.98±0.29 | 4.45±0.29 | 1.51±0.29 | 1.37±0.14 | 3.69±0.56 | 3.54±0.29 | 0.82±0.08 | 4.33±0.09 |
| G033 | Turmeric powder (<i>Curcuma domestica</i>) | 6 | 1.88±0.15 | 4.54±0.32 | 8.28±0.36 | 3.76±0.17 | 1.13±0.23 | 0.77±0.16 | 5.56±0.45 | 4.45±0.19 | 2.06±0.23 | 5.81±0.60 |
| H NUTS AND OIL SEEDS | | | | | | | | | | | | |
| H001 | Almond (<i>Prunus amygdalus</i>) | 6 | 2.22±0.43 | 2.38±0.38 | 4.02±0.57 | 2.28±0.19 | 1.24±0.27 | 0.84±0.12 | 5.61±0.22 | 2.82±0.40 | 0.89±0.04 | 4.45±0.40 |
| H002 | Arecanut, dried, brown (<i>Areca catechu</i>) | 6 | 2.09±0.35 | 1.74±0.16 | 4.43±0.43 | 4.59±0.40 | 0.98±0.05 | 0.65±0.18 | 3.56±0.96 | 2.81±0.63 | 0.79±0.17 | 3.25±0.44 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|---|------------|---------------|---------------|-----------|------------|-----------|-----------|
| | | | <div><div><</div><div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"><div style="position: absolute; right: -10px;">g</div><div style="position: absolute; left: -10px;">></div></div></div> | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| G017 | Onion, big (<i>Allium cepa</i>) | 6 | 3.61±0.64 | 13.21±0.46 | 8.96±0.84 | 25.10±0.60 | 3.86±0.64 | 2.01±0.33 | 2.68±0.54 | 1.92±0.23 |
| G018 | Onion, small (<i>Allium cepa</i>) | 5 | 5.48±0.78 | 12.28±0.81 | 9.51±1.25 | 25.34±1.94 | 6.50±0.36 | 3.55±0.81 | 3.03±0.55 | 2.24±0.48 |
| G | CONDIMENTS AND SPICES-DRY | | | | | | | | | |
| G019 | Asafoetida (<i>Ferula assa-foetida</i>) | 6 | 3.99±0.34 | 3.33±0.61 | 13.74±1.92 | 27.68±4.23 | 4.34±0.46 | 7.15±0.64 | 6.03±0.50 | 2.40±0.33 |
| G020 | Cardamom, green (<i>Elettaria cardamomum</i>) | 6 | 6.24±0.75 | 9.33±0.93 | 11.96±1.40 | 19.21±1.33 | 5.29±0.77 | 3.60±0.30 | 5.82±0.64 | 2.39±0.42 |
| G021 | Cardamom, black (<i>Elettaria cardamomum</i>) | 4 | 6.19±0.88 | 7.36±0.31 | 15.14±0.95 | 17.81±0.83 | 5.64±0.85 | 4.25±0.20 | 5.37±0.01 | 1.97±0.36 |
| G022 | Chillies, red (<i>Capsicum annum</i>) | 6 | 4.77±0.35 | 4.96±0.22 | 14.05±2.24 | 17.32±0.88 | 5.13±0.50 | 5.67±0.62 | 4.32±0.37 | 3.09±0.44 |
| G023 | Cloves (<i>Syzygium aromaticum</i>) | 6 | 4.31±0.58 | 6.38±0.25 | 11.01±0.99 | 18.47±0.91 | 4.58±1.27 | 3.90±0.45 | 5.32±0.46 | 2.57±0.30 |
| G024 | Coriander seeds (<i>Coriandrum sativum</i>) | 6 | 4.97±0.51 | 6.01±0.58 | 10.72±0.70 | 15.62±1.50 | 6.29±0.44 | 4.91±0.49 | 4.70±0.52 | 3.05±0.33 |
| G025 | Cumin seeds (<i>Cuminum cyminum</i>) | 6 | 5.22±0.28 | 6.82±0.34 | 8.96±0.29 | 20.91±0.54 | 7.22±0.44 | 4.33±0.41 | 5.07±0.18 | 3.27±0.32 |
| G026 | Fenugreek seeds (<i>Trigonella foenum graecum</i>) | 6 | 4.31±0.58 | 8.38±0.41 | 11.01±0.99 | 18.47±0.91 | 4.92±0.54 | 3.90±0.45 | 5.32±0.46 | 2.57±0.30 |
| G027 | Mace (<i>Myristica fragrans</i>) | 6 | 7.39±0.52 | 4.80±0.60 | 12.36±1.37 | 10.93±0.68 | 6.24±0.41 | 5.21±0.55 | 5.92±0.67 | 3.78±0.33 |
| G028 | Nutmeg (<i>Myristica fragrans</i>) | 6 | 5.98±0.79 | 6.88±0.80 | 10.96±0.83 | 16.10±0.76 | 5.72±0.66 | 4.54±0.70 | 6.20±0.68 | 2.43±0.43 |
| G029 | Omum (<i>Trachyspermum ammi</i>) | 6 | 5.47±0.51 | 5.91±0.48 | 10.87±1.78 | 18.46±0.72 | 7.84±0.68 | 4.72±0.40 | 5.33±0.44 | 2.74±0.15 |
| G030 | Pippali (<i>Piper longum</i>) | 6 | 6.12±0.90 | 7.69±0.19 | 15.24±1.47 | 15.04±0.83 | 4.70±0.73 | 6.61±1.02 | 5.25±0.85 | 4.97±0.53 |
| G031 | Pepper, black (<i>Piper nigrum</i>) | 6 | 5.45±0.06 | 2.31±0.40 | 12.11±0.70 | 15.96±0.78 | 4.72±0.22 | 6.58±0.99 | 4.16±0.24 | 4.50±0.13 |
| G032 | Poppy seeds (<i>Papaver somniferum</i>) | 6 | 4.89±0.43 | 8.87±0.25 | 10.98±0.87 | 24.34±0.92 | 5.12±0.58 | 14.39±0.10 | 5.29±0.55 | 3.41±0.22 |
| G033 | Turmeric powder (<i>Curcuma domestica</i>) | 6 | 3.75±0.32 | 5.35±0.48 | 14.66±0.43 | 13.44±0.50 | 4.53±0.23 | 2.61±0.26 | 4.46±0.27 | 3.12±0.32 |
| H | NUTS AND OIL SEEDS | | | | | | | | | |
| H001 | Almond (<i>Prunus amygdalus</i>) | 6 | 4.20±0.75 | 11.01±0.22 | 11.77±0.43 | 27.98±0.71 | 6.04±0.15 | 4.03±0.13 | 4.27±0.44 | 3.38±0.73 |
| H002 | Arecanut, dried, brown (<i>Areca catechu</i>) | 6 | 3.80±0.37 | 11.15±1.15 | 8.03±0.92 | 19.36±1.56 | 4.70±0.58 | 3.71±0.30 | 4.68±0.28 | 3.18±0.76 |

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| H003 | Arecanut, dried, red color (<i>Areca catechu</i>) | 3 | 2.75±0.96 | 1.56±0.27 | 4.26±0.07 | 4.84±0.36 | 0.97±0.18 | 0.55±0.03 | 3.83±0.72 | 2.86±0.89 | 0.76±0.13 | 3.33±0.18 |
| H004 | Arecanut, fresh (<i>Areca catechu</i>) | 2 | 1.81 | 1.62 | 4.51 | 4.59 | 1.27 | 0.64 | 3.65 | 2.89 | 0.70 | 4.89 |
| H005 | Cashew nut (<i>Anacardium occidentale</i>) | 6 | 2.27±0.36 | 3.86±0.30 | 7.02±0.23 | 4.80±0.26 | 1.38±0.11 | 1.33±0.09 | 4.87±0.70 | 3.12±0.17 | 1.05±0.11 | 3.23±0.19 |
| H006 | Coconut, kernal, dry (<i>Cocos nucifera</i>) | 6 | 2.15±0.17 | 3.02±0.69 | 6.74±0.45 | 4.31±0.38 | 1.55±0.20 | 1.75±0.10 | 5.19±0.49 | 3.07±0.18 | 0.62±0.12 | 4.81±1.10 |
| H007 | Coconut, kernel, fresh (<i>Cocos nucifera</i>) | 6 | 2.40±0.23 | 4.37±0.41 | 6.93±0.38 | 4.08±0.19 | 2.19±0.14 | 1.47±0.13 | 4.51±0.20 | 3.25±0.26 | 1.20±0.15 | 5.83±0.36 |
| H008 | Garden cress, seeds (<i>Lepidium sativum</i>) | 5 | 2.62±0.10 | 3.75±0.15 | 6.58±0.10 | 3.85±0.19 | 1.85±0.16 | 1.23±0.10 | 3.89±0.18 | 3.15±0.16 | 1.24±0.18 | 4.69±0.18 |
| H009 | Gingelly seeds, black (<i>Sesamum indicum</i>) | 6 | 2.39±0.25 | 5.69±0.17 | 5.91±0.78 | 2.63±0.31 | 3.36±0.13 | 1.22±0.16 | 4.74±0.38 | 3.19±0.22 | 1.10±0.11 | 4.78±0.37 |
| H010 | Gingelly seeds, brown (<i>Sesamum indicum</i>) | 4 | 2.30±0.24 | 5.01±0.29 | 6.18±0.37 | 2.57±0.22 | 2.69±0.16 | 1.13±0.13 | 3.83±0.85 | 3.05±0.37 | 1.17±0.10 | 4.79±0.14 |
| H011 | Gingelly seeds, white (<i>Sesamum indicum</i>) | 5 | 2.41±0.11 | 6.02±0.02 | 5.40±0.41 | 2.59±0.08 | 2.25±0.04 | 1.31±0.08 | 4.38±0.60 | 3.00±0.28 | 1.16±0.09 | 4.64±0.23 |
| H012 | Ground nut (<i>Arachis hypogea</i>) | 6 | 2.24±0.20 | 4.67±0.38 | 6.40±0.57 | 3.39±0.28 | 1.21±0.14 | 1.33±0.11 | 5.40±1.08 | 2.54±0.17 | 0.90±0.14 | 3.92±0.93 |
| H013 | Mustard seeds (<i>Brassica juncea</i>) | 6 | 2.76±0.16 | 3.80±0.46 | 6.96±0.32 | 5.31±0.34 | 1.66±0.43 | 1.63±0.10 | 4.47±0.71 | 4.02±0.31 | 1.23±0.09 | 5.00±0.72 |
| H014 | Linseeds (<i>Linum usitatissimum</i>) | 6 | 2.62±0.10 | 4.47±0.22 | 6.81±0.26 | 4.63±0.22 | 1.75±0.05 | 1.61±0.10 | 5.58±0.26 | 3.88±0.10 | 1.57±0.12 | 5.31±0.13 |
| H015 | Niger seeds, black (<i>Guizotia abyssinica</i>) | 4 | 1.88±0.47 | 4.57±0.23 | 4.71±0.27 | 3.61±0.28 | 1.31±0.21 | 1.76±0.53 | 3.14±0.91 | 2.70±0.88 | 1.25±0.14 | 3.69±0.67 |
| H016 | Niger seeds, gray (<i>Guizotia abyssinica</i>) | 5 | 1.87±0.20 | 4.69±0.27 | 5.22±0.77 | 3.72±0.19 | 1.32±0.07 | 1.71±0.14 | 3.72±0.67 | 3.12±0.35 | 1.11±0.10 | 4.50±0.31 |
| H017 | Pine seed (<i>Pinus gerardiana</i>) | 5 | 2.38±0.19 | 4.00±0.22 | 6.23±0.19 | 3.79±0.18 | 1.43±0.13 | 1.56±0.27 | 3.68±0.26 | 3.63±0.32 | 0.83±0.09 | 4.73±0.17 |
| H018 | Pistachio nuts (<i>Pistacla vera</i>) | 6 | 2.28±0.13 | 5.22±0.15 | 7.55±0.30 | 3.32±0.18 | 1.45±0.12 | 1.46±0.13 | 5.52±0.51 | 4.60±0.17 | 1.42±0.19 | 5.27±0.22 |
| H019 | Safflower seeds (<i>Carthamus tinctorius</i>) | 5 | 2.44±0.21 | 3.69±0.33 | 6.32±0.14 | 3.55±0.09 | 0.74±0.06 | 1.60±0.12 | 4.27±0.19 | 3.30±0.13 | 1.43±0.14 | 4.35±0.24 |
| H020 | Sunflower seeds (<i>Helianthus annuus</i>) | 5 | 2.30±0.10 | 4.21±0.08 | 6.38±0.34 | 3.26±0.26 | 0.84±0.19 | 1.43±0.15 | 4.97±0.31 | 3.31±0.16 | 1.14±0.06 | 4.99±0.19 |
| H021 | Walnut (<i>Juglans regia</i>) | 6 | 2.34±0.24 | 4.74±0.12 | 6.87±0.50 | 2.18±0.54 | 0.73±0.13 | 1.36±0.13 | 4.41±0.68 | 3.08±0.28 | 1.04±0.13 | 5.78±0.36 |
| I SUGARS | | | | | | | | | | | | |
| I001 | Jaggery, cane (<i>Saccharum officinarum</i>) | 6 | 1.64±0.41 | 2.27±0.57 | 2.97±0.14 | 2.73±0.15 | 0.44±0.11 | 0.49±0.10 | 4.82±0.46 | 2.18±0.25 | 0.59±0.18 | 3.45±0.30 |

Table 8. Amino Acid Profile

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| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|---|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| H003 | Arecanut, dried, red color (<i>Areca catechu</i>) | 3 | 6.70±0.44 | 12.68±1.19 | 8.22±1.00 | 19.61±1.29 | 5.21±0.30 | 4.62±0.69 | 5.89±1.02 | 2.84±0.28 |
| H004 | Arecanut, fresh (<i>Areca catechu</i>) | 2 | 3.80 | 10.99 | 8.20 | 22.03 | 4.54 | 4.25 | 5.01 | 2.84 |
| H005 | Cashew nut (<i>Anacardium occidentale</i>) | 6 | 5.35±0.37 | 9.75±0.07 | 9.85±0.19 | 22.76±0.64 | 5.25±0.39 | 3.97±0.20 | 6.39±0.35 | 2.81±0.11 |
| H006 | Coconut, kernal, dry (<i>Cocos nucifera</i>) | 6 | 5.51±0.58 | 13.08±1.96 | 9.59±1.16 | 22.14±1.17 | 4.54±0.33 | 3.50±0.27 | 5.11±0.62 | 2.69±0.07 |
| H007 | Coconut, kernel, fresh (<i>Cocos nucifera</i>) | 6 | 5.27±0.18 | 13.87±0.44 | 9.62±0.23 | 19.12±0.56 | 4.63±0.19 | 4.61±0.21 | 5.33±0.20 | 3.20±0.31 |
| H008 | Garden cress, seeds (<i>Lepidium sativum</i>) | 5 | 5.33±0.35 | 10.67±0.38 | 10.29±0.83 | 21.34±0.82 | 5.22±0.19 | 4.37±0.17 | 4.99±0.18 | 3.47±0.12 |
| H009 | Gingelly seeds, black (<i>Sesamum indicum</i>) | 6 | 5.92±0.70 | 11.02±0.73 | 8.63±1.39 | 20.14±1.72 | 5.66±0.76 | 3.76±0.41 | 5.48±0.54 | 3.22±0.72 |
| H010 | Gingelly seeds, brown (<i>Sesamum indicum</i>) | 4 | 5.67±0.82 | 11.30±0.77 | 8.65±0.48 | 20.73±0.99 | 5.58±0.55 | 3.48±0.14 | 5.43±0.38 | 3.36±0.26 |
| H011 | Gingelly seeds, white (<i>Sesamum indicum</i>) | 5 | 5.62±1.14 | 11.18±0.75 | 9.06±1.38 | 20.03±1.33 | 6.32±1.48 | 3.76±0.41 | 5.63±0.51 | 3.30±0.33 |
| H012 | Ground nut (<i>Arachis hypogea</i>) | 6 | 4.23±0.30 | 10.85±0.78 | 11.68±1.66 | 19.41±1.16 | 5.56±0.38 | 3.74±0.97 | 5.05±0.37 | 3.86±0.37 |
| H013 | Mustard seeds (<i>Brassica juncea</i>) | 6 | 4.62±0.53 | 6.71±0.74 | 7.14±0.68 | 19.70±2.13 | 5.08±0.77 | 6.11±0.80 | 4.20±0.72 | 3.03±0.30 |
| H014 | Linseeds (<i>Linum usitatissimum</i>) | 6 | 4.89±0.25 | 11.15±0.62 | 10.87±0.25 | 17.70±1.07 | 5.71±0.20 | 4.39±0.17 | 5.25±0.12 | 3.48±0.12 |
| H015 | Niger seeds, black (<i>Guizotia abyssinica</i>) | 4 | 6.92±0.68 | 7.54±0.65 | 9.85±0.55 | 22.85±2.79 | 6.13±0.79 | 4.46±0.61 | 4.16±0.84 | 3.02±0.19 |
| H016 | Niger seeds, gray (<i>Guizotia abyssinica</i>) | 5 | 4.90±0.74 | 8.33±0.52 | 10.53±1.76 | 21.33±1.60 | 6.24±0.13 | 4.20±0.56 | 6.18±0.91 | 2.87±0.95 |
| H017 | Pine seed (<i>Pinus gerardiana</i>) | 5 | 4.33±0.27 | 16.73±0.51 | 8.97±0.61 | 18.23±0.79 | 4.34±0.20 | 4.59±0.23 | 4.18±0.22 | 2.74±0.11 |
| H018 | Pistachio nuts (<i>Pistacla vera</i>) | 6 | 5.17±0.15 | 8.52±0.36 | 9.94±0.38 | 16.37±0.62 | 5.99±0.17 | 3.69±0.12 | 4.19±0.30 | 3.18±0.29 |
| H019 | Safflower seeds (<i>Carthamus tinctorius</i>) | 5 | 5.71±0.19 | 9.34±0.23 | 10.22±0.38 | 20.14±0.86 | 5.96±0.16 | 4.05±0.21 | 5.56±0.12 | 3.24±0.21 |
| H020 | Sunflower seeds (<i>Helianthus annuus</i>) | 5 | 5.69±0.33 | 8.55±0.37 | 9.80±0.29 | 22.29±0.81 | 6.29±0.18 | 4.76±0.28 | 5.51±0.08 | 2.47±0.11 |
| H021 | Walnut (<i>Juglans regia</i>) | 6 | 5.44±0.60 | 13.47±0.49 | 10.18±0.90 | 20.50±0.77 | 5.55±0.32 | 3.42±0.35 | 6.54±0.50 | 2.73±0.34 |

I SUGARS

| | | | | | | | | | | |
|------|--|---|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| I001 | Jaggery, cane (<i>Saccharum officinarum</i>) | 6 | 4.53±0.25 | 3.01±0.42 | 31.24±0.90 | 12.89±2.93 | 2.72±0.71 | 1.71±0.74 | 3.34±0.28 | 1.00±0.18 |
|------|--|---|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|

| Food code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|--------------------------|---|----------------|-----------|------------|------------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| I002 | Sugarcane, juice (<i>Saccharum officinarum</i>) | 6 | 1.79±0.17 | 3.81±0.15 | 3.55±0.08 | 2.53±0.29 | 0.40±0.06 | 0.52±0.14 | 5.11±0.29 | 3.02±0.10 | 0.75±0.16 | 4.19±0.27 |
| J MUSHROOMS | | | | | | | | | | | | |
| J001 | Button mushroom, fresh (<i>Agaricus</i> sp.) | 1 | 2.68 | 4.36 | 6.88 | 6.82 | 1.66 | 0.98 | 4.63 | 4.40 | 1.26 | 5.48 |
| J002 | Chicken mushroom, fresh (<i>Lactiporus</i> sp.) | 1 | 2.16 | 4.42 | 7.03 | 7.20 | 1.70 | 1.02 | 4.50 | 4.38 | 1.30 | 5.36 |
| J003 | Shiitake mushroom, fresh (<i>Lentinula</i> sp.) | 1 | 2.20 | 4.50 | 7.14 | 7.36 | 1.56 | 1.06 | 4.20 | 4.92 | 1.32 | 6.08 |
| J004 | Oyster mushroom, dried (<i>Pleurotus</i> sp.) | 1 | 2.81 | 4.30 | 7.08 | 7.54 | 1.82 | 1.20 | 4.52 | 4.86 | 1.41 | 6.16 |
| K MISCELLANEOUS FOODS | | | | | | | | | | | | |
| K001 | Toddy | 10 | | | | | | | | | | |
| K002 | Coconut Water | 6 | 1.75±0.46 | 1.58±0.28 | 2.35±0.56 | 3.84±2.33 | 0.59±0.12 | 0.99±0.13 | 1.95±0.89 | 2.69±0.66 | 0.78±0.18 | 3.02±0.59 |
| L MILK AND MILK PRODUCTS | | | | | | | | | | | | |
| L001 | Milk, whole, Buffalo | 6 | 2.08±0.11 | 5.30±0.38 | 9.83±0.05 | 7.87±0.30 | 2.46±0.08 | 1.25±0.08 | 4.26±0.14 | 4.42±0.21 | 1.30±0.18 | 5.86±0.29 |
| L002 | Milk, whole, Cow | 6 | 2.14±0.13 | 6.20±0.55 | 10.66±0.41 | 8.59±0.20 | 2.51±0.12 | 1.22±0.04 | 5.09±0.42 | 4.81±0.07 | 1.46±0.11 | 6.40±0.24 |
| L003 | Panner | 6 | 2.04±0.45 | 4.79±0.19 | 9.76±0.14 | 5.79±0.93 | 2.28±0.21 | 0.72±0.16 | 5.08±0.16 | 4.37±0.16 | 1.42±0.87 | 5.68±0.20 |
| L004 | Khoa | 6 | 1.47±0.16 | 4.93±0.21 | 10.34±0.28 | 2.41±0.21 | 1.95±0.17 | 0.75±0.17 | 5.08±0.32 | 4.63±0.18 | 1.59±0.80 | 6.10±0.18 |

| Food code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|--------------------------|---|----------------|------------|-----------|---------------|---------------|-----------|------------|-----------|-----------|
| | | | g | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| I002 | Sugarcane, juice (<i>Saccharum officinarum</i>) | 6 | 5.22±0.36 | 3.43±0.16 | 30.49±1.15 | 11.60±0.54 | 2.70±0.22 | 2.46±0.25 | 3.55±0.31 | 2.35±0.19 |
| J MUSHROOMS | | | | | | | | | | |
| J001 | Button mushroom, fresh (<i>Agaricus</i> sp.) | 1 | 5.60 | 6.60 | 10.24 | 14.35 | 5.38 | 3.80 | 4.32 | 3.20 |
| J002 | Chicken mushroom, fresh (<i>Lactiporus</i> sp.) | 1 | 6.20 | 7.23 | 10.30 | 15.80 | 5.26 | 4.21 | 4.50 | 3.18 |
| J003 | Shiitake mushroom, fresh (<i>Lentinula</i> sp.) | 1 | 6.38 | 6.80 | 10.51 | 14.67 | 5.80 | 3.66 | 4.45 | 3.10 |
| J004 | Oyster mushroom, dried (<i>Pleurotus</i> sp.) | 1 | 6.46 | 6.94 | 10.72 | 15.60 | 5.69 | 4.40 | 4.80 | 3.08 |
| K MISCELLANEOUS FOODS | | | | | | | | | | |
| K001 | Toddy | 10 | | | | | | | | |
| K002 | Coconut Water | 6 | 20.28±2.26 | 5.13±1.26 | 10.81±0.71 | 31.01±1.65 | 1.97±0.64 | 4.25±1.56 | 5.05±1.71 | 1.57±0.31 |
| L MILK AND MILK PRODUCTS | | | | | | | | | | |
| L001 | Milk, whole, Buffalo | 6 | 3.38±0.14 | 3.09±0.42 | 8.21±0.16 | 16.21±0.76 | 2.43±0.08 | 7.60±0.40 | 5.78±0.39 | 4.86±0.41 |
| L002 | Milk, whole, Cow | 6 | 3.87±0.27 | 3.25±0.34 | 8.84±0.36 | 17.88±0.43 | 2.35±0.07 | 6.82±0.13 | 6.36±0.51 | 5.48±0.35 |
| L003 | Panner | 6 | 3.39±1.05 | 3.56±0.46 | 7.69±0.14 | 20.24±1.09 | 2.18±0.19 | 10.45±0.59 | 5.27±0.13 | 5.36±0.31 |
| L004 | Khoa | 6 | 3.99±0.35 | 1.06±0.67 | 7.95±0.23 | 21.82±0.43 | 2.02±0.11 | 11.32±0.89 | 5.37±0.33 | 4.95±0.31 |

| Food Code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|------------------------------------|----------------|-----------|------------|-----------|-----------|------------|------------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| M | EGG AND EGG PRODUCTS | | | | | | | | | | | |
| M001 | Egg, poultry, whole, raw | 6 | 4.65±0.07 | 2.15±0.07 | 7.95±0.18 | 8.37±0.19 | 6.72±0.27 | 9.53±0.18 | 6.29±0.32 | 6.34±0.23 | 1.59±0.15 | 5.82±0.20 |
| M002 | Egg, poultry, white, raw | 6 | 4.54±0.17 | 2.25±0.14 | 7.94±0.25 | 8.35±0.20 | 6.24±0.33 | 10.55±0.49 | 5.28±0.56 | 6.90±0.21 | 1.50±0.11 | 6.89±0.19 |
| M003 | Egg, poultry, yolk, raw | 6 | 5.69±0.09 | 2.19±0.08 | 7.24±0.23 | 8.58±0.29 | 6.17±0.22 | 9.35±0.23 | 7.08±0.38 | 6.14±0.10 | 1.47±0.12 | 5.66±0.33 |
| M004 | Egg, poultry, whole, boiled | 6 | 4.56±0.30 | 2.29±0.16 | 7.30±0.07 | 8.17±0.12 | 6.66±0.09 | 10.13±0.56 | 6.25±0.40 | 6.42±0.25 | 1.38±0.14 | 6.04±0.09 |
| M005 | Egg, poultry, white, boiled | 6 | 4.48±0.15 | 2.21±0.21 | 7.57±0.16 | 8.31±0.27 | 6.16±0.39 | 10.20±0.40 | 5.37±0.16 | 6.70±0.40 | 1.45±0.08 | 6.81±0.30 |
| M006 | Egg, poultry, yolk, boiled | 6 | 5.44±0.50 | 2.16±0.18 | 7.99±0.33 | 8.46±0.38 | 6.43±0.82 | 9.36±0.24 | 6.94±0.49 | 5.86±0.46 | 1.35±0.08 | 5.70±0.23 |
| M007 | Egg, poultry, omlet | 3 | 4.65±0.03 | 2.12±0.14 | 7.48±0.05 | 8.34±0.06 | 6.81±1.01 | 9.76±0.28 | 6.09±0.27 | 6.43±0.08 | 1.36±0.14 | 5.85±0.24 |
| M008 | Egg, country hen, whole, raw | 1 | 5.15 | 2.25 | 7.53 | 7.74 | 6.21 | 9.79 | 6.42 | 6.24 | 1.42 | 5.72 |
| M009 | Egg, country hen, whole, boiled | 1 | 4.52 | 2.28 | 7.95 | 7.81 | 6.87 | 9.58 | 6.39 | 6.42 | 1.35 | 5.97 |
| M010 | Egg, country hen, omlet | 1 | 4.61 | 2.04 | 7.18 | 7.52 | 5.82 | 10.03 | 5.91 | 6.53 | 1.34 | 5.76 |
| M011 | Egg, duck, whole, boiled | 1 | 4.36 | 1.80 | 7.39 | 8.90 | 6.36 | 10.12 | 5.08 | 6.52 | 1.36 | 6.58 |
| M012 | Egg, duck, whole, raw | 1 | 4.79 | 1.83 | 7.55 | 8.85 | 6.45 | 10.29 | 5.22 | 6.84 | 1.38 | 6.60 |
| M013 | Egg, duck, whole, omlet | 1 | 4.24 | 1.80 | 7.76 | 8.40 | 6.74 | 9.74 | 5.08 | 6.34 | 1.36 | 6.38 |
| M014 | Egg, quial, whole, raw | 1 | 4.86 | 2.40 | 7.11 | 7.96 | 6.18 | 10.79 | 6.03 | 6.50 | | 5.73 |
| M015 | Egg, quial, whole, boiled | 1 | 4.31 | 2.39 | 7.37 | 8.02 | 5.34 | 9.93 | 5.48 | 6.33 | 1.47 | 5.57 |
| N | POULTRY | | | | | | | | | | | |
| N001 | Chicken, poultry, leg, skinless | 4 | 4.47±0.17 | 2.76±0.18 | 7.84±0.17 | 7.26±0.28 | 6.04±0.32 | 9.35±0.51 | 7.07±0.21 | 5.66±0.29 | 1.16±0.22 | 4.92±0.22 |
| N002 | Chicken, poultry, thigh, skinless | 6 | 4.57±0.21 | 2.54±0.25 | 7.87±0.13 | 8.06±0.22 | 6.04±0.32 | 9.05±0.56 | 7.01±0.15 | 5.94±0.44 | 1.20±0.21 | 4.63±0.29 |
| N003 | Chicken, poultry, breast, skinless | 5 | 4.87±0.22 | 3.57±0.11 | 7.89±0.34 | 6.34±0.42 | 6.31±0.37 | 9.16±0.45 | 7.23±0.23 | 5.66±0.23 | 1.20±0.21 | 4.97±0.23 |
| N004 | Chicken, poultry, wing, skinless | 5 | 4.46±0.20 | 2.62±0.18 | 8.51±0.17 | 7.74±0.20 | 6.26±0.33 | 9.42±0.37 | 6.84±0.20 | 5.02±0.33 | 1.21±0.21 | 4.55±0.16 |

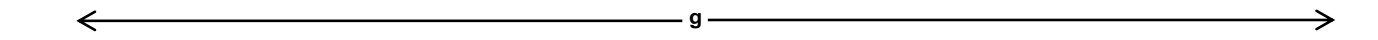
Table 8. Amino Acid Profile

| Food Code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|------------------------------------|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| M | EGG AND EGG PRODUCTS | | | | | | | | | |
| M001 | Egg, poultry, whole, raw | 6 | 3.12±0.12 | 13.53±0.32 | 3.23±0.20 | 2.28±0.05 | 4.11±0.21 | 5.36±0.39 | 6.71±0.33 | 3.93±0.12 |
| M002 | Egg, poultry, white, raw | 6 | 3.06±0.13 | 14.15±0.65 | 3.49±0.27 | 2.35±0.23 | 4.88±0.78 | 5.31±0.23 | 6.45±0.31 | 3.62±0.16 |
| M003 | Egg, poultry, yolk, raw | 6 | 2.72±0.11 | 13.69±0.40 | 3.20±0.11 | 2.11±0.07 | 3.97±0.15 | 5.35±0.21 | 7.97±0.33 | 4.05±0.17 |
| M004 | Egg, poultry, whole, boiled | 6 | 2.86±0.23 | 13.69±0.39 | 3.20±0.12 | 2.30±0.29 | 3.88±0.17 | 5.23±0.11 | 6.85±0.21 | 4.03±0.15 |
| M005 | Egg, poultry, white, boiled | 6 | 3.34±0.27 | 13.03±0.64 | 3.42±0.25 | 2.25±0.04 | 4.53±0.71 | 5.24±0.11 | 7.36±0.35 | 3.48±0.22 |
| M006 | Egg, poultry, yolk, boiled | 6 | 2.43±0.31 | 13.06±0.74 | 3.04±0.06 | 2.08±0.05 | 3.46±0.25 | 5.29±0.13 | 7.44±0.38 | 4.06±0.62 |
| M007 | Egg, poultry, omlet | 3 | 2.98±0.06 | 13.73±0.07 | 3.32±0.07 | 2.04±0.40 | 4.91±1.51 | 5.24±0.03 | 6.68±0.15 | 3.93±0.04 |
| M008 | Egg, country hen, whole, raw | 1 | 2.97 | 13.04 | 3.54 | 2.15 | 3.36 | 5.74 | 7.54 | 3.70 |
| M009 | Egg, country hen, whole, boiled | 1 | 3.10 | 13.24 | 3.28 | 2.18 | 3.82 | 5.82 | 6.65 | 3.99 |
| M010 | Egg, country hen, omlet | 1 | 2.88 | 13.87 | 3.26 | 2.20 | 3.83 | 5.33 | 6.90 | 3.71 |
| M011 | Egg, duck, whole, boiled | 1 | 3.03 | 13.41 | 2.76 | 2.12 | 3.59 | 5.42 | 5.74 | 3.93 |
| M012 | Egg, duck, whole, raw | 1 | 2.82 | 13.61 | 3.62 | 2.08 | 3.50 | 5.24 | 6.49 | 3.96 |
| M013 | Egg, duck, whole, omlet | 1 | 3.18 | 13.88 | 2.88 | 1.98 | 3.91 | 5.42 | 5.61 | 3.53 |
| M014 | Egg, quial, whole, raw | 1 | 2.64 | 13.77 | 4.14 | 1.85 | 3.36 | 5.77 | 6.43 | 3.73 |
| M015 | Egg, quial, whole, boiled | 1 | 2.72 | 13.44 | 3.45 | 1.88 | 3.71 | 5.82 | 6.00 | 3.89 |
| N | POULTRY | | | | | | | | | |
| N001 | Chicken, poultry, leg, skinless | 4 | 2.39±0.21 | 16.40±0.68 | 4.98±0.12 | 1.16±0.14 | 4.30±0.17 | 4.75±0.25 | 3.91±0.25 | 3.71±0.17 |
| N002 | Chicken, poultry, thigh, skinless | 6 | 2.63±0.32 | 16.87±0.37 | 4.85±0.46 | 1.20±0.12 | 3.93±0.47 | 4.89±0.16 | 4.01±0.36 | 3.51±0.23 |
| N003 | Chicken, poultry, breast, skinless | 5 | 2.49±0.20 | 16.92±0.43 | 4.80±0.25 | 1.08±0.12 | 4.77±0.31 | 5.48±0.37 | 4.15±0.39 | 3.89±0.16 |
| N004 | Chicken, poultry, wing, skinless | 5 | 2.69±0.18 | 16.01±0.45 | 5.01±0.27 | 1.42±0.13 | 4.37±0.43 | 4.77±0.15 | 3.85±0.20 | 3.15±0.05 |

| Food Code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|----------------------|--------------------------------|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| N005 | Poultry, chicken, liver | 1 | 4.82 | 3.20 | 8.20 | 9.93 | 6.12 | 9.33 | 6.59 | 6.30 | 1.52 | 5.82 |
| N006 | Poultry, chicken, gizzard | 1 | 4.30 | 2.61 | 8.82 | 7.67 | 6.22 | 8.56 | 7.97 | 4.59 | 1.83 | 4.48 |
| N007 | Country hen, leg, with skin | 1 | 4.93 | 2.20 | 7.52 | 9.22 | 6.03 | 9.92 | 7.42 | 5.99 | 1.15 | 4.32 |
| N008 | Country hen, thigh, with skin | 1 | 5.21 | 2.87 | 7.65 | 9.29 | 6.19 | 8.86 | 7.32 | 5.01 | 1.26 | 5.01 |
| N009 | Country hen, breast, with skin | 1 | 4.38 | 4.04 | 7.96 | 7.92 | 6.05 | 8.77 | 7.67 | 5.08 | 1.80 | 5.77 |
| N010 | Country hen, wing, with skin | 1 | 4.33 | 3.50 | 7.90 | 9.12 | 6.58 | 9.03 | 6.50 | 5.12 | 1.24 | 5.70 |
| N011 | Duck, meat, with skin | 1 | 5.31 | 3.26 | 7.31 | 8.36 | 6.44 | 9.31 | 7.45 | 5.09 | 1.54 | 5.34 |
| N012 | Emu, meat, skinless | 1 | 5.13 | 3.12 | 7.23 | 8.58 | 6.62 | 8.73 | 7.14 | 5.04 | 1.74 | 5.12 |
| N013 | Guinea fowl, meat, with skin | 1 | 4.64 | 2.66 | 7.35 | 8.49 | 6.58 | 9.08 | 6.79 | 4.98 | 1.65 | 4.70 |
| N014 | Pigeon, meat, with skin | 1 | 4.88 | 2.47 | 7.22 | 8.32 | 6.31 | 8.95 | 6.59 | 5.28 | 1.62 | 4.51 |
| N015 | Quail, meat, skinless | 1 | 5.11 | 2.98 | 7.20 | 8.65 | 6.79 | 8.90 | 7.01 | 5.14 | 1.74 | 5.03 |
| N016 | Turkey, leg, with skin | 1 | 5.06 | 2.40 | 6.58 | 8.62 | 6.60 | 8.77 | 6.80 | 5.06 | 1.66 | 4.64 |
| N017 | Turkey, thigh, with skin | 1 | 5.32 | 2.62 | 6.78 | 8.94 | 6.15 | 8.65 | 6.93 | 5.36 | 1.62 | 4.62 |
| N018 | Turkey, breast, with skin | 1 | 4.80 | 2.97 | 7.07 | 8.17 | 6.44 | 8.86 | 7.52 | 5.03 | 1.54 | 5.91 |
| N019 | Turkey, wing, with skin | 1 | 4.85 | 3.32 | 7.22 | 9.14 | 6.09 | 9.44 | 6.26 | 5.51 | 1.71 | 5.07 |
| O ANIMAL MEAT | | | | | | | | | | | | |
| O001 | Goat, shoulder | 6 | 4.71±0.15 | 3.33±0.48 | 7.66±0.33 | 9.00±0.38 | 5.66±0.62 | 9.26±0.68 | 7.29±1.42 | 5.12±0.28 | 1.34±0.10 | 4.71±0.24 |
| O002 | Goat, chops | 6 | 5.09±0.66 | 3.53±0.69 | 6.24±0.19 | 7.26±0.09 | 5.41±0.61 | 9.29±0.34 | 7.06±1.26 | 4.92±0.29 | 1.63±0.23 | 4.45±0.23 |
| O003 | Goat, legs | 6 | 5.38±0.82 | 3.63±0.76 | 6.81±0.04 | 8.09±0.15 | 5.15±0.74 | 9.89±0.20 | 7.76±1.20 | 4.65±0.35 | 1.43±0.21 | 4.51±0.09 |
| O004 | Goat, brain | 5 | 5.29±0.44 | 2.98±1.01 | 5.21±0.20 | 8.24±0.25 | 6.01±0.30 | 8.47±0.30 | 6.61±0.72 | 5.29±0.18 | 1.36±0.11 | 4.70±0.03 |
| O005 | Goat, tongue | 4 | 4.70±0.47 | 3.18±0.37 | 5.59±0.09 | 7.05±0.18 | 5.70±0.61 | 8.26±0.43 | 7.02±0.81 | 4.67±0.32 | 1.45±0.23 | 4.50±0.42 |

[illegible]

| Food Code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|------------------------------|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | g | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| O006 | Goat, lungs | 4 | 4.64±0.42 | 2.54±0.05 | 5.82±0.10 | 8.04±0.59 | 6.07±0.64 | 7.77±0.31 | 7.16±0.67 | 5.74±0.45 | 1.45±0.16 | 5.15±0.53 |
| O007 | Goat, heart | 5 | 5.38±0.21 | 3.08±0.76 | 6.35±0.18 | 7.04±0.07 | 5.59±0.34 | 8.15±0.36 | 6.25±0.50 | 5.43±0.51 | 1.31±0.12 | 5.08±0.62 |
| O008 | Goat, liver | 6 | 4.23±0.47 | 3.04±0.42 | 6.02±0.25 | 8.39±0.98 | 6.27±0.18 | 8.74±0.76 | 5.64±1.19 | 6.58±0.68 | 1.22±0.11 | 4.53±0.99 |
| O009 | Goat, tripe | 5 | 4.40±0.25 | 3.59±0.31 | 5.99±0.17 | 7.22±0.19 | 5.55±0.26 | 8.33±0.59 | 7.76±0.93 | 4.16±0.21 | 1.34±0.06 | 5.24±0.45 |
| O010 | Goat, spleen | 4 | 4.62±0.35 | 2.70±0.41 | 5.50±0.11 | 8.89±0.87 | 6.49±0.32 | 8.80±0.40 | 6.58±0.40 | 6.27±0.90 | 1.46±0.06 | 5.27±0.28 |
| O011 | Goat, kidneys | 4 | 5.23±0.18 | 3.41±0.39 | 6.46±0.19 | 8.48±0.46 | 5.52±0.22 | 8.43±0.22 | 5.74±1.03 | 5.69±0.21 | 1.50±0.11 | 5.44±0.43 |
| O012 | Goat, tube (small intestine) | 3 | 4.55±0.33 | 3.90±0.83 | 7.01±0.34 | 7.50±0.04 | 5.75±0.38 | 8.28±0.00 | 7.42±0.74 | 4.44±0.17 | 1.47±0.00 | 4.14±0.03 |
| O013 | Goat, testis | 2 | 4.59 | 3.88 | 8.31 | 7.09 | 5.99 | 8.38 | 6.44 | 5.25 | 1.28 | 4.36 |
| O014 | Sheep, shoulder | 5 | 5.23±0.78 | 3.73±0.65 | 7.68±0.28 | 8.05±0.15 | 5.36±0.29 | 9.61±0.32 | 7.87±0.87 | 5.22±0.36 | 1.42±0.12 | 4.82±0.07 |
| O015 | Sheep, chops | 4 | 5.19±0.69 | 3.31±0.26 | 7.36±0.48 | 7.29±0.13 | 5.48±0.19 | 9.39±0.32 | 6.80±0.37 | 4.89±0.17 | 1.50±0.16 | 4.23±0.26 |
| O016 | Sheep, leg | 5 | 5.54±0.86 | 3.88±0.84 | 7.07±0.25 | 8.26±0.16 | 5.33±0.34 | 9.52±0.55 | 7.78±0.72 | 4.89±0.12 | 1.47±0.17 | 4.58±0.07 |
| O017 | Sheep, brain | 1 | 5.54 | 2.47 | 5.21 | 8.51 | 6.04 | 8.08 | 6.83 | 5.30 | 1.29 | 4.19 |
| O018 | Sheep, tongue | 1 | 5.71 | 3.64 | 5.45 | 7.49 | 5.22 | 8.30 | 6.79 | 4.87 | 1.36 | 3.62 |
| O019 | Sheep, lungs | 2 | 4.56 | 2.58 | 5.02 | 7.78 | 6.63 | 7.27 | 7.43 | 5.41 | 1.36 | 4.53 |
| O020 | Sheep, heart | 1 | 5.93 | 3.18 | 6.77 | 7.86 | 5.56 | 7.65 | 6.45 | 5.45 | 1.40 | 4.86 |
| O021 | Sheep, liver | 4 | 4.39±0.30 | 2.83±0.27 | 6.20±0.06 | 7.79±0.34 | 5.12±0.71 | 8.22±0.80 | 5.66±0.99 | 5.52±0.39 | 1.19±0.28 | 4.68±0.20 |
| O022 | Sheep, tripe | 2 | 4.72 | 3.44 | 5.78 | 7.05 | 5.33 | 8.65 | 7.17 | 3.86 | 1.46 | 6.05 |
| O023 | Sheep, spleen | 1 | 5.05 | 2.89 | 5.90 | 8.91 | 7.04 | 8.83 | 6.55 | 6.94 | 1.38 | 5.50 |
| O024 | Sheep, kidneys | 2 | 5.08 | 3.78 | 6.34 | 7.69 | 5.04 | 8.82 | 5.61 | 4.89 | 1.59 | 5.11 |
| O025 | Beef, shoulder | 6 | 5.09±0.52 | 3.85±0.44 | 7.57±0.11 | 8.29±0.09 | 5.36±0.36 | 9.06±0.29 | 7.48±0.88 | 5.35±0.38 | 0.94±0.22 | 4.91±0.34 |
| O026 | Beef, chops | 4 | 5.51±0.47 | 3.82±0.38 | 5.67±0.09 | 8.26±0.62 | 5.37±0.45 | 9.40±0.72 | 6.51±0.88 | 5.32±0.52 | 1.17±0.18 | 5.32±0.55 |
| O027 | Beef, round (leg) | 6 | 5.07±0.36 | 3.67±0.50 | 6.43±0.16 | 8.09±0.22 | 5.41±0.17 | 9.85±0.31 | 7.00±0.85 | 5.10±0.13 | 1.42±0.16 | 4.67±0.18 |

| Food Code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|------------------------------|----------------|--|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | |  | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| O006 | Goat, lungs | 4 | 2.46±0.41 | 11.41±0.94 | 6.06±0.26 | 1.48±0.05 | 5.59±0.45 | 3.26±0.12 | 4.58±0.29 | 4.51±0.48 |
| O007 | Goat, heart | 5 | 2.41±0.20 | 13.14±0.74 | 6.71±1.03 | 1.71±0.38 | 4.38±0.38 | 4.27±0.26 | 4.74±0.29 | 3.97±0.40 |
| O008 | Goat, liver | 6 | 2.49±0.15 | 12.09±1.18 | 5.29±0.35 | 1.71±0.74 | 4.76±0.34 | 4.61±0.38 | 4.93±0.21 | 3.50±0.07 |
| O009 | Goat, tripe | 5 | 2.88±0.20 | 11.46±0.53 | 8.20±0.97 | 1.62±0.42 | 5.02±0.45 | 3.24±0.10 | 4.48±0.35 | 4.11±0.91 |
| O010 | Goat, spleen | 4 | 2.48±0.61 | 12.26±0.30 | 7.86±1.08 | 1.37±0.17 | 4.54±0.50 | 3.44±0.02 | 4.26±0.15 | 3.74±0.35 |
| O011 | Goat, kidneys | 4 | 2.66±0.32 | 12.62±0.77 | 6.98±0.29 | 1.71±0.05 | 4.73±0.29 | 4.08±0.25 | 5.08±0.09 | 4.77±0.87 |
| O012 | Goat, tube (small intestine) | 3 | 2.31±1.02 | 12.78±0.81 | 9.29±0.34 | 1.44±0.05 | 5.30±0.13 | 3.50±0.11 | 4.61±0.09 | 3.13±0.03 |
| O013 | Goat, testis | 2 | 2.41 | 12.92 | 9.35 | 1.32 | 5.51 | 3.40 | 4.31 | 3.94 |
| O014 | Sheep, shoulder | 5 | 2.48±0.20 | 14.72±0.95 | 5.47±0.39 | 1.31±0.37 | 4.64±0.27 | 4.19±0.19 | 4.34±0.45 | 4.10±0.45 |
| O015 | Sheep, chops | 4 | 2.76±0.20 | 14.31±0.14 | 5.91±0.80 | 1.39±0.11 | 4.24±0.15 | 4.64±0.38 | 4.33±0.40 | 3.59±0.21 |
| O016 | Sheep, leg | 5 | 2.42±0.28 | 14.46±0.43 | 5.86±0.67 | 1.54±0.16 | 3.97±0.35 | 4.19±0.04 | 4.57±0.54 | 4.10±0.53 |
| O017 | Sheep, brain | 1 | 3.20 | 13.47 | 5.28 | 1.34 | 3.89 | 4.69 | 5.19 | 4.23 |
| O018 | Sheep, tongue | 1 | 2.72 | 14.42 | 6.28 | 1.48 | 4.30 | 3.72 | 4.79 | 3.78 |
| O019 | Sheep, lungs | 2 | 2.48 | 10.53 | 8.33 | 1.40 | 5.48 | 3.22 | 4.64 | 3.37 |
| O020 | Sheep, heart | 1 | 2.09 | 13.75 | 5.50 | 1.61 | 4.23 | 4.15 | 4.72 | 3.81 |
| O021 | Sheep, liver | 4 | 2.64±0.29 | 10.93±0.65 | 5.17±0.20 | 1.68±0.22 | 4.79±0.65 | 4.53±0.12 | 4.91±0.16 | 3.67±0.07 |
| O022 | Sheep, tripe | 2 | 2.60 | 10.80 | 8.76 | 1.48 | 5.11 | 3.32 | 4.36 | 4.42 |
| O023 | Sheep, spleen | 1 | 2.27 | 12.11 | 6.76 | 1.46 | 4.38 | 4.02 | 4.39 | 3.34 |
| O024 | Sheep, kidneys | 2 | 2.57 | 12.78 | 6.65 | 1.69 | 4.90 | 3.78 | 4.91 | 4.36 |
| O025 | Beef, shoulder | 6 | 2.60±0.28 | 13.85±0.62 | 5.96±0.50 | 1.38±0.15 | 4.46±0.31 | 4.25±0.11 | 4.45±0.32 | 3.97±0.44 |
| O026 | Beef, chops | 4 | 2.87±0.40 | 14.07±0.78 | 6.26±0.25 | 1.25±0.09 | 4.80±0.26 | 4.73±0.66 | 4.79±0.57 | 3.80±0.47 |
| O027 | Beef, round (leg) | 6 | 2.90±0.22 | 14.70±0.61 | 5.82±0.65 | 1.63±0.35 | 4.13±0.23 | 4.49±0.29 | 4.19±0.58 | 4.28±0.30 |

| Food Code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|---------------------|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | g | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| O028 | Beef, brain | 4 | 5.35±0.53 | 2.74±0.02 | 5.48±0.21 | 8.42±0.46 | 5.64±0.50 | 8.08±0.25 | 6.29±0.53 | 5.43±0.62 | 1.39±0.02 | 4.70±0.07 |
| O029 | Beef, tongue | 4 | 4.99±0.45 | 3.22±0.21 | 5.55±0.11 | 7.98±0.47 | 5.49±0.14 | 8.23±0.50 | 6.77±0.88 | 5.20±0.59 | 1.20±0.18 | 4.59±0.55 |
| O030 | Beef, lungs | 3 | 4.51±0.47 | 3.46±0.28 | 5.37±0.14 | 8.13±0.26 | 6.12±0.47 | 7.08±0.19 | 6.21±1.62 | 5.92±0.18 | 1.47±0.14 | 5.20±0.59 |
| O031 | Beef, heart | 5 | 5.84±0.46 | 2.54±0.50 | 6.41±0.05 | 7.77±0.48 | 5.53±0.54 | 8.00±0.55 | 7.29±0.08 | 4.99±0.57 | 1.44±0.13 | 6.01±0.20 |
| O032 | Beef, liver | 6 | 4.83±0.23 | 2.92±0.13 | 6.53±0.18 | 8.53±0.57 | 5.54±0.29 | 8.48±0.25 | 5.94±0.31 | 5.90±0.55 | 1.17±0.12 | 5.02±0.59 |
| O033 | Beef, tripe | 5 | 4.38±0.07 | 3.30±0.14 | 5.28±0.06 | 7.11±0.18 | 6.07±0.38 | 8.39±0.68 | 7.06±0.20 | 4.75±0.20 | 1.48±0.16 | 5.58±0.07 |
| O034 | Beef, spleen | 6 | 4.82±0.34 | 3.19±0.35 | 5.50±0.19 | 8.38±0.39 | 5.71±0.58 | 7.73±0.41 | 6.12±0.55 | 5.83±0.51 | 1.49±0.14 | 5.05±0.56 |
| O035 | Beef, kidneys | 3 | 5.27±0.38 | 3.33±0.27 | 6.85±0.18 | 8.08±0.21 | 5.40±0.44 | 7.95±0.18 | 6.21±0.18 | 5.14±0.63 | 1.32±0.04 | 5.22±0.60 |
| O036 | Calf, shoulder | 2 | 4.82 | 3.60 | 5.58 | 7.73 | 5.40 | 9.49 | 5.35 | 4.71 | 1.14 | 3.87 |
| O037 | Calf, chops | 2 | 5.22 | 3.76 | 5.61 | 8.23 | 5.69 | 10.47 | 5.78 | 5.28 | 1.30 | 4.47 |
| O038 | Calf, round (leg) | 2 | 5.12 | 5.10 | 6.49 | 8.32 | 5.99 | 9.45 | 6.66 | 5.45 | 1.25 | 4.36 |
| O039 | Calf, brain | 2 | 5.98 | 2.33 | 5.56 | 9.19 | 5.67 | 8.18 | 5.22 | 5.17 | 1.40 | 4.25 |
| O040 | Calf, tongue | 2 | 4.89 | 2.70 | 5.54 | 7.77 | 6.86 | 8.45 | 6.39 | 4.76 | 1.54 | 4.37 |
| O041 | Calf, heart | 1 | 5.25 | 2.69 | 6.43 | 8.11 | 4.98 | 7.97 | 6.83 | 5.00 | 1.41 | 5.38 |
| O042 | Calf, liver | 1 | 4.33 | 2.36 | 6.13 | 8.76 | 5.51 | 8.61 | 5.55 | 6.13 | 1.43 | 4.98 |
| O043 | Calf, spleen | 1 | 4.76 | 3.15 | 5.66 | 9.51 | 6.96 | 8.25 | 5.32 | 6.84 | 1.47 | 5.19 |
| O044 | Calf, kidneys | 2 | 5.49 | 3.77 | 6.39 | 8.27 | 5.92 | 8.20 | 6.15 | 5.53 | 1.21 | 5.38 |
| O045 | Mithun, shoulder | 1 | 4.72 | 4.08 | 7.78 | 7.48 | 6.01 | 9.54 | 7.44 | 5.01 | 1.28 | 4.47 |
| O046 | Mithun, chops | 1 | 5.21 | 3.35 | 6.92 | 7.87 | 5.37 | 9.71 | 7.73 | 4.65 | 1.28 | 4.76 |
| O047 | Mithun, round (leg) | 1 | 5.08 | 3.77 | 6.49 | 7.87 | 5.50 | 9.57 | 7.34 | 4.93 | 1.33 | 3.94 |
| O048 | Pork, shoulder | 6 | 4.83±0.29 | 3.86±0.46 | 5.50±0.13 | 8.39±0.12 | 5.32±0.44 | 9.17±0.24 | 6.51±0.58 | 4.39±0.43 | 1.32±0.11 | 4.41±0.29 |
| O049 | Pork, chops | 6 | 4.42±0.25 | 4.08±0.72 | 5.97±1.11 | 7.77±0.04 | 6.74±0.05 | 9.73±0.21 | 7.30±1.49 | 4.63±0.23 | 1.31±0.08 | 4.37±0.67 |

Table 8. Amino Acid Profile

| Food Code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|---------------------|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| O028 | Beef, brain | 4 | 2.75±0.17 | 12.75±0.54 | 5.65±0.47 | 1.35±0.08 | 4.05±0.23 | 4.17±0.55 | 5.43±0.53 | 4.87±0.58 |
| O029 | Beef, tongue | 4 | 3.02±0.21 | 13.80±0.47 | 5.72±0.48 | 1.25±0.31 | 4.77±0.21 | 4.35±0.32 | 4.67±0.18 | 3.71±0.43 |
| O030 | Beef, lungs | 3 | 2.61±0.30 | 11.46±0.08 | 8.15±0.52 | 1.64±0.20 | 5.74±0.34 | 3.56±0.13 | 4.78±0.56 | 3.87±0.55 |
| O031 | Beef, heart | 5 | 2.84±0.16 | 13.39±0.53 | 4.60±0.47 | 1.61±0.23 | 4.30±0.63 | 4.53±0.44 | 4.92±0.54 | 4.92±0.61 |
| O032 | Beef, liver | 6 | 2.82±0.21 | 11.84±0.42 | 5.60±0.37 | 1.30±0.26 | 4.59±0.09 | 4.24±0.18 | 4.66±0.14 | 3.77±0.59 |
| O033 | Beef, tripe | 5 | 2.82±0.23 | 11.70±0.13 | 7.40±0.23 | 1.75±0.37 | 5.40±0.64 | 4.07±0.14 | 4.54±0.27 | 4.16±0.26 |
| O034 | Beef, spleen | 6 | 2.54±0.44 | 11.81±0.51 | 7.41±0.60 | 1.65±0.40 | 4.75±0.52 | 3.78±0.49 | 4.86±0.26 | 3.17±0.08 |
| O035 | Beef, kidneys | 3 | 2.56±0.26 | 12.93±0.66 | 5.26±0.09 | 1.56±0.21 | 5.05±0.30 | 3.78±0.34 | 4.96±0.23 | 4.26±0.34 |
| O036 | Calf, shoulder | 2 | 2.36 | 13.73 | 5.07 | 1.04 | 4.59 | 3.95 | 4.64 | 3.11 |
| O037 | Calf, chops | 2 | 2.82 | 14.47 | 5.09 | 1.08 | 4.33 | 4.90 | 4.43 | 3.68 |
| O038 | Calf, round (leg) | 2 | 3.01 | 14.32 | 5.38 | 1.66 | 4.37 | 4.62 | 4.52 | 4.09 |
| O039 | Calf, brain | 2 | 2.30 | 13.19 | 5.12 | 1.32 | 4.08 | 4.37 | 5.59 | 4.40 |
| O040 | Calf, tongue | 2 | 2.21 | 12.73 | 6.61 | 1.20 | 4.43 | 3.92 | 4.70 | 3.50 |
| O041 | Calf, heart | 1 | 2.29 | 13.82 | 5.50 | 1.49 | 3.78 | 4.13 | 4.20 | 4.28 |
| O042 | Calf, liver | 1 | 2.65 | 12.77 | 5.66 | 1.52 | 4.55 | 4.28 | 4.62 | 3.62 |
| O043 | Calf, spleen | 1 | 2.26 | 13.25 | 7.83 | 1.47 | 4.54 | 3.45 | 4.51 | 3.25 |
| O044 | Calf, kidneys | 2 | 2.81 | 12.50 | 6.08 | 1.55 | 5.23 | 3.88 | 5.10 | 4.19 |
| O045 | Mithun, shoulder | 1 | 2.52 | 16.40 | 5.63 | 1.28 | 4.83 | 4.45 | 4.20 | 3.87 |
| O046 | Mithun, chops | 1 | 3.10 | 15.61 | 5.60 | 1.14 | 4.29 | 4.71 | 4.50 | 3.87 |
| O047 | Mithun, round (leg) | 1 | 2.58 | 14.79 | 5.38 | 1.21 | 4.16 | 4.40 | 4.37 | 4.58 |
| O048 | Pork, shoulder | 6 | 2.89±0.40 | 13.31±0.59 | 5.37±0.10 | 1.35±0.43 | 5.74±0.50 | 4.40±0.07 | 4.33±0.12 | 3.23±0.52 |
| O049 | Pork, chops | 6 | 2.88±0.13 | 14.27±0.94 | 5.50±0.13 | 1.41±0.14 | 5.27±0.04 | 4.55±0.08 | 4.69±0.64 | 3.46±0.07 |

| Food Code | Food Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|------------------------------|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LEU | LYS | MET | CYS | PHE | THR | TRP | VAL |
| O050 | Pork, ham | 6 | 4.91±0.38 | 4.47±0.22 | 6.49±0.14 | 8.27±0.26 | 5.32±0.44 | 9.38±0.25 | 7.62±0.58 | 4.56±0.34 | 1.47±0.11 | 5.09±0.25 |
| O051 | Pork, lungs | 4 | 4.34±0.20 | 3.02±0.35 | 5.50±0.12 | 8.00±0.55 | 6.76±0.31 | 8.22±0.62 | 6.50±0.88 | 6.16±0.48 | 1.37±0.18 | 3.92±0.62 |
| O052 | Pork, heart | 4 | 5.09±0.49 | 3.11±0.08 | 6.57±0.24 | 8.73±0.35 | 5.76±0.35 | 8.65±0.46 | 6.20±1.89 | 5.69±0.36 | 1.55±0.04 | 5.58±0.12 |
| O053 | Pork, liver | 5 | 4.73±0.45 | 3.07±0.47 | 6.71±0.21 | 8.64±0.35 | 5.26±0.51 | 8.60±0.20 | 6.12±0.70 | 6.07±0.18 | 1.24±0.15 | 4.73±0.57 |
| O054 | Pork, stomach | 1 | 5.27 | 3.13 | 6.66 | 6.44 | 5.55 | 8.96 | 8.82 | 5.04 | 1.46 | 5.47 |
| O055 | Pork, spleen | 3 | 4.36±0.08 | 3.06±0.02 | 7.53±0.34 | 8.61±0.47 | 6.30±0.42 | 8.61±0.68 | 6.77±0.44 | 5.84±0.16 | 1.28±0.28 | 4.26±0.07 |
| O056 | Pork, kidneys | 5 | 5.15±0.61 | 3.67±0.49 | 7.76±0.07 | 8.12±0.11 | 5.55±0.56 | 8.87±0.51 | 5.86±0.32 | 6.11±0.64 | 1.26±0.10 | 4.96±0.21 |
| O057 | Pork, tube (small intestine) | 1 | 4.98 | 4.08 | 7.74 | 7.93 | 6.70 | 8.07 | 7.99 | 4.73 | 1.27 | 3.50 |
| O058 | Hare, shoulder | 1 | 4.64 | 2.57 | 7.76 | 9.13 | 7.07 | 8.41 | 6.81 | 5.04 | 1.49 | 5.01 |
| O059 | Hare, chops | 1 | 4.98 | 2.64 | 7.46 | 9.08 | 6.82 | 8.80 | 6.48 | 5.86 | 1.64 | 4.88 |
| O060 | Hare, leg | 1 | 4.83 | 2.72 | 7.73 | 9.00 | 6.47 | 8.93 | 6.45 | 5.08 | 1.82 | 4.94 |
| O061 | Rabbit, shoulder | 1 | 5.04 | 2.86 | 7.23 | 8.34 | 6.63 | 8.65 | 6.59 | 5.10 | 1.65 | 5.31 |
| O062 | Rabbit, chops | 1 | 5.11 | 2.97 | 7.51 | 8.84 | 6.74 | 8.61 | 6.52 | 5.10 | 1.46 | 4.93 |
| O063 | Rabbit, leg | 1 | 4.86 | 2.95 | 7.21 | 9.17 | 6.94 | 8.48 | 6.71 | 5.08 | 1.52 | 5.09 |

Table 8. Amino Acid Profile

| Food Code | Food Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|------------------------------|----------------|-----------|------------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASP | GLU | GLY | PRO | SER | TYR |
| O050 | Pork, ham | 6 | 2.78±0.26 | 14.18±1.07 | 5.41±0.29 | 1.77±0.39 | 4.79±0.54 | 4.81±0.45 | 4.49±0.21 | 4.47±0.51 |
| O051 | Pork, lungs | 4 | 2.27±0.58 | 11.71±0.39 | 8.27±0.11 | 1.84±0.25 | 6.23±0.22 | 3.17±0.29 | 4.75±0.34 | 2.93±0.22 |
| O052 | Pork, heart | 4 | 2.86±0.34 | 13.97±0.63 | 6.09±0.15 | 1.68±0.44 | 4.49±0.28 | 4.44±0.40 | 4.41±0.33 | 4.51±0.41 |
| O053 | Pork, liver | 5 | 2.57±0.27 | 12.99±0.81 | 5.89±0.44 | 1.53±0.43 | 4.34±0.38 | 4.28±0.19 | 4.87±0.56 | 3.61±0.43 |
| O054 | Pork, stomach | 1 | 2.89 | 9.24 | 8.41 | 1.22 | 4.56 | 4.49 | 5.29 | 5.48 |
| O055 | Pork, spleen | 3 | 2.43±0.65 | 12.65±0.40 | 7.08±0.41 | 1.50±0.51 | 4.59±0.28 | 3.61±0.30 | 4.78±0.42 | 2.71±0.21 |
| O056 | Pork, kidneys | 5 | 2.53±0.23 | 11.65±0.48 | 7.22±0.43 | 1.36±0.41 | 4.73±0.27 | 4.07±0.31 | 5.08±0.35 | 3.98±0.66 |
| O057 | Pork, tube (small intestine) | 1 | 2.25 | 13.19 | 9.15 | 1.26 | 5.32 | 3.62 | 4.97 | 2.92 |
| O058 | Hare, shoulder | 1 | 2.53 | 15.99 | 6.27 | 1.03 | 4.75 | 5.04 | 4.08 | 3.99 |
| O059 | Hare, chops | 1 | 2.93 | 14.89 | 5.53 | 1.20 | 4.24 | 5.26 | 4.32 | 3.80 |
| O060 | Hare, leg | 1 | 2.71 | 15.68 | 5.22 | 1.05 | 4.43 | 5.18 | 4.12 | 4.03 |
| O061 | Rabbit, shoulder | 1 | 2.88 | 15.43 | 5.01 | 1.21 | 3.83 | 5.42 | 4.29 | 4.35 |
| O062 | Rabbit, chops | 1 | 3.17 | 15.31 | 4.80 | 1.34 | 4.46 | 5.56 | 4.31 | 4.21 |
| O063 | Rabbit, leg | 1 | 2.54 | 14.40 | 6.02 | 1.21 | 4.62 | 5.31 | 4.26 | 4.41 |

| Food Code | Fish Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LE | LYS | MET | CYS | PHE | THR | TRP | VAL |
| P | MARINE FISH | | | | | | | | | | | |
| P001 | Allathi (<i>Elops machnata</i>) | 1 | 5.23 | 4.76 | 7.80 | 6.63 | 3.26 | 1.42 | 5.49 | 5.13 | 1.18 | 5.26 |
| P002 | Aluva (<i>Parastromateus niger</i>) | 3 | 3.72±0.23 | 4.57±0.40 | 8.65±0.35 | 5.91±0.96 | 2.28±0.30 | 1.42±0.39 | 6.43±0.42 | 5.57±0.74 | 0.99±0.02 | 5.74±0.25 |
| P003 | Anchovy (<i>Stolephorus indicus</i>) | 2 | 3.65 | 4.59 | 7.72 | 5.67 | 3.28 | 1.82 | 4.61 | 5.55 | 0.81 | 5.49 |
| P004 | Ari fish (<i>Aprion virescens</i>) | 1 | 4.71 | 4.56 | 8.23 | 6.30 | 2.64 | 2.14 | 4.55 | 5.49 | 1.23 | 5.11 |
| P005 | Betki (<i>Lates calcarifer</i>) | 1 | 4.54 | 4.62 | 6.98 | 7.60 | 3.15 | 1.95 | 5.79 | 5.19 | 0.81 | 5.33 |
| P006 | Black snapper (<i>Macolor niger</i>) | 1 | 4.94 | 4.93 | 7.97 | 5.84 | 3.12 | 2.01 | 5.33 | 4.64 | 0.79 | 5.43 |
| P007 | Bombay duck (<i>Harpadon nehereus</i>) | 2 | 4.60 | 4.49 | 7.47 | 7.17 | 3.44 | 1.74 | 5.37 | 4.51 | 1.25 | 5.34 |
| P008 | Bommuralu (<i>Muraenesox cinerius</i>) | 3 | 3.74±0.09 | 4.75±0.46 | 8.59±0.25 | 5.07±0.45 | 2.57±0.13 | 1.48±0.14 | 6.19±0.37 | 5.58±0.11 | 1.19±0.07 | 5.35±0.45 |
| P009 | Cat fish (<i>Tachysurus thalassinus</i>) | 1 | 2.06 | 5.04 | 8.35 | 6.13 | 2.12 | 1.42 | 4.40 | 4.83 | 0.55 | 5.59 |
| P010 | Chakla (<i>Rachycentron canadum</i>) | 5 | 3.61±0.32 | 4.62±0.17 | 7.59±0.29 | 6.26±0.44 | 2.52±0.21 | 1.83±0.32 | 5.63±0.28 | 5.15±0.46 | 1.02±0.12 | 5.28±0.16 |
| P011 | Chappal (<i>Aluterus monoceros</i>) | 1 | 3.04 | 4.82 | 8.35 | 5.47 | 4.10 | 1.91 | 4.72 | 5.76 | 1.18 | 5.75 |
| P012 | Chelu (<i>Elagatis bipinnulata</i>) | 2 | 2.96 | 4.70 | 7.41 | 6.31 | 4.15 | 1.58 | 4.37 | 5.82 | 1.13 | 5.63 |
| P013 | Chembali (<i>Lutjanus quinquelineatus</i>) | 1 | 3.19 | 4.60 | 7.72 | 8.03 | 4.30 | 1.45 | 4.93 | 5.29 | 1.01 | 5.26 |
| P014 | Eri meen (<i>Pristipomoides filamentosus</i>) | 1 | 3.89 | 4.86 | 8.19 | 6.92 | 3.19 | 1.67 | 5.95 | 5.25 | 1.11 | 5.39 |
| P015 | Gobro (<i>Epinephelus diacanthus</i>) | 2 | 2.87 | 4.59 | 7.92 | 7.51 | 3.54 | 1.98 | 4.52 | 5.53 | 1.15 | 5.23 |
| P016 | Guitar fish (<i>Rhinobatus prahli</i>) | 1 | 2.35 | 4.89 | 8.37 | 6.92 | 3.07 | 1.33 | 4.26 | 4.96 | 1.04 | 5.22 |
| P017 | Hilsa (<i>Tenualosa ilisha</i>) | 2 | 4.32 | 3.79 | 8.14 | 7.45 | 3.68 | 1.43 | 5.17 | 5.48 | 1.88 | 5.35 |
| P018 | Jallal (<i>Arius</i> sp.) | 1 | 3.50 | 4.78 | 7.85 | 6.03 | 3.97 | 2.27 | 5.02 | 5.80 | 1.08 | 5.41 |
| P019 | Jathi vela meen (<i>Lethrinus lentjan</i>) | 2 | 3.58 | 4.63 | 8.25 | 6.72 | 3.79 | 1.75 | 4.40 | 4.75 | 1.00 | 5.70 |
| P020 | Kadal bral (<i>Synodus indicus</i>) | 1 | 3.20 | 4.38 | 7.43 | 6.52 | 3.46 | 2.01 | 3.82 | 5.39 | 0.81 | 5.22 |
| P021 | Kadali (<i>Nemipterus mesoprion</i>) | 1 | 3.63 | 4.71 | 8.01 | 7.43 | 2.33 | 1.21 | 5.77 | 5.48 | 1.11 | 5.24 |

Table 8. Amino Acid Profile

| Food Code | Fish Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|---------------|---|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | g | | | | | | | |
| | | | ALA | ARG | ASN | GLU | GLY | PRO | SER | TYR |
| P MARINE FISH | | | | | | | | | | |
| P001 | Allathi (<i>Elops machnata</i>) | 1 | 5.41 | 5.95 | 10.70 | 14.01 | 4.68 | 3.39 | 3.88 | 5.15 |
| P002 | Aluva (<i>Parastromateus niger</i>) | 3 | 5.55±0.36 | 6.97±1.17 | 9.56±1.05 | 13.13±0.62 | 5.47±0.29 | 3.53±0.40 | 4.34±0.63 | 5.13±0.33 |
| P003 | Anchovy (<i>Stolephorus indicus</i>) | 2 | 5.28 | 5.83 | 7.89 | 14.66 | 5.57 | 3.35 | 4.39 | 4.15 |
| P004 | Ari fish (<i>Aprion virescens</i>) | 1 | 5.39 | 7.56 | 10.65 | 12.16 | 5.83 | 3.28 | 4.38 | 4.26 |
| P005 | Betki (<i>Lates calcarifer</i>) | 1 | 2.15 | 5.93 | 10.35 | 13.28 | 6.51 | 5.55 | 4.46 | 5.28 |
| P006 | Black snapper (<i>Macolor niger</i>) | 1 | 5.67 | 5.74 | 11.43 | 15.70 | 5.36 | 3.58 | 4.07 | 3.85 |
| P007 | Bombay duck (<i>Harpadon nehereus</i>) | 2 | 5.95 | 5.25 | 9.93 | 11.16 | 6.17 | 6.14 | 4.50 | 4.23 |
| P008 | Bommuralu (<i>Muraenesox cinerius</i>) | 3 | 4.52±0.53 | 6.73±0.33 | 10.19±0.81 | 13.89±0.53 | 4.76±0.34 | 3.29±0.42 | 4.54±0.07 | 5.46±0.47 |
| P009 | Cat fish (<i>Tachysurus thalassinus</i>) | 1 | 5.84 | 5.77 | 12.00 | 15.36 | 5.19 | 3.62 | 4.18 | 3.91 |
| P010 | Chakla (<i>Rachycentron canadum</i>) | 5 | 5.57±0.20 | 6.88±1.24 | 10.25±0.50 | 13.92±0.58 | 4.96±0.22 | 3.44±0.16 | 4.30±0.25 | 4.41±0.59 |
| P011 | Chappal (<i>Aluterus monoceros</i>) | 1 | 5.73 | 8.17 | 9.16 | 14.10 | 6.10 | 3.75 | 4.97 | 3.35 |
| P012 | Chelu (<i>Elagatis bipinnulata</i>) | 2 | 5.15 | 6.98 | 9.86 | 14.88 | 5.07 | 3.34 | 5.11 | 4.47 |
| P013 | Chembali (<i>Lutjanus quinquelineatus</i>) | 1 | 5.72 | 5.98 | 11.41 | 12.69 | 5.60 | 3.21 | 4.28 | 5.44 |
| P014 | Eri meen (<i>Pristipomoides filamentosus</i>) | 1 | 5.72 | 5.97 | 10.33 | 15.02 | 5.89 | 3.56 | 4.40 | 3.48 |
| P015 | Gobro (<i>Epinephelus diacanthus</i>) | 2 | 5.43 | 6.38 | 9.19 | 14.35 | 5.02 | 3.37 | 4.49 | 4.26 |
| P016 | Guitar fish (<i>Rhinobatus prahli</i>) | 1 | 6.14 | 6.69 | 9.13 | 14.68 | 5.78 | 5.29 | 4.29 | 4.85 |
| P017 | Hilsa (<i>Tenuالosa ilisha</i>) | 2 | 4.43 | 4.15 | 1.72 | 13.13 | 6.66 | 6.85 | 4.43 | 3.83 |
| P018 | Jallal (<i>Arius</i> sp.) | 1 | 5.11 | 6.87 | 9.54 | 13.98 | 5.33 | 3.14 | 5.41 | 4.28 |
| P019 | Jathi vela meen (<i>Lethrinus lentjan</i>) | 2 | 5.61 | 6.42 | 9.92 | 14.07 | 5.38 | 3.73 | 4.23 | 4.18 |
| P020 | Kadal bral (<i>Synodus indicus</i>) | 1 | 5.00 | 6.44 | 10.46 | 13.80 | 5.37 | 3.20 | 4.34 | 3.51 |
| P021 | Kadali (<i>Nemipterus mesoprion</i>) | 1 | 6.23 | 5.35 | 8.51 | 16.44 | 5.13 | 3.74 | 3.87 | 5.27 |

| Food Code | Fish Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|---|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LE | LYS | MET | CYS | PHE | THR | TRP | VAL |
| P022 | Kalamaara (<i>Leptomelanosoma indicum</i>) | 2 | 2.76 | 4.52 | 8.63 | 6.04 | 3.05 | 1.76 | 6.29 | 5.50 | 1.10 | 5.06 |
| P023 | Kalava (<i>Epinephelus coioides</i>) | 1 | 3.81 | 4.82 | 8.00 | 6.04 | 3.50 | 1.72 | 5.61 | 5.10 | 1.28 | 5.19 |
| P024 | Kanamayya (<i>Lutjanus rivulatus</i>) | 2 | 2.00 | 4.95 | 7.78 | 5.62 | 2.87 | 1.61 | 5.36 | 6.11 | 0.98 | 5.64 |
| P025 | Kannadi paarai (<i>Alectis indicus</i>) | 3 | 4.13±0.64 | 4.47±0.02 | 7.68±0.36 | 6.11±0.42 | 2.89±0.11 | 1.66±0.34 | 5.61±0.09 | 5.57±0.24 | 1.10±0.06 | 5.29±0.06 |
| P026 | Karimeen (<i>Eetroplus suratensis</i>) | 1 | 2.30 | 4.59 | 8.06 | 6.50 | 3.61 | 1.70 | 4.03 | 5.11 | 0.78 | 5.24 |
| P027 | Karnagawala (<i>Anchoa hepsetus</i>) | 1 | 2.85 | 5.06 | 8.51 | 5.43 | 3.66 | 2.54 | 4.68 | 6.80 | 0.91 | 5.83 |
| P028 | Kayrai (<i>Thunnus albacores</i>) | 2 | 2.27 | 4.60 | 8.27 | 6.76 | 2.46 | 1.52 | 5.13 | 5.19 | 1.10 | 5.72 |
| P029 | Kiriyan (<i>Atule mate</i>) | 1 | 3.07 | 4.54 | 7.39 | 6.30 | 4.14 | 2.34 | 5.09 | 5.37 | 1.24 | 5.59 |
| P030 | Kite fish (<i>Mobula kuhlii</i>) | 1 | 3.07 | 4.67 | 8.18 | 5.80 | 3.10 | 1.31 | 4.97 | 5.66 | 1.56 | 4.98 |
| P031 | Korka (<i>Terapon jarbua</i>) | 1 | 3.43 | 4.47 | 7.40 | 5.49 | 3.34 | 2.38 | 3.60 | 5.56 | 1.09 | 5.18 |
| P032 | Kulam paarai (<i>Carangoides fulvoguttatus</i>) | 1 | 1.74 | 4.91 | 8.39 | 5.95 | 2.49 | 1.56 | 5.17 | 6.36 | 1.15 | 6.03 |
| P033 | Maagaa (<i>Polynemus plebeius</i>) | 1 | 3.07 | 4.75 | 8.15 | 7.24 | 3.25 | 1.43 | 5.18 | 5.17 | 1.14 | 5.29 |
| P034 | Mackerel (<i>Rastrelliger kanagurta</i>) | 3 | 3.63±0.31 | 4.64±0.16 | 7.91±0.35 | 6.39±0.19 | 2.56±0.23 | 1.68±0.36 | 5.25±0.29 | 5.71±0.39 | 1.00±0.06 | 5.47±0.19 |
| P035 | Manda clathi (<i>Naso reticulatus</i>) | 1 | 2.98 | 4.70 | 8.74 | 6.05 | 3.32 | 1.94 | 6.09 | 4.80 | 0.81 | 5.16 |
| P036 | Matha (<i>Acanthurus mata</i>) | 2 | 4.02 | 5.11 | 8.65 | 5.18 | 3.54 | 2.03 | 5.94 | 5.68 | 1.25 | 5.74 |
| P037 | Milk fish (<i>Chanos chanos</i>) | 1 | 3.10 | 5.15 | 8.30 | 7.36 | 3.30 | 1.86 | 5.20 | 5.87 | 0.90 | 6.12 |
| P038 | Moon fish (<i>Mene maculata</i>) | 1 | 4.94 | 4.89 | 8.27 | 5.84 | 3.12 | 2.01 | 4.73 | 4.64 | 1.22 | 5.54 |
| P039 | Mullet (<i>Mugil cephalus</i>) | 3 | 3.35±0.30 | 4.66±0.04 | 7.91±0.13 | 6.41±0.60 | 2.96±0.20 | 1.39±0.10 | 5.44±0.13 | 5.92±0.39 | 0.93±0.06 | 5.32±0.10 |
| P040 | Mural (<i>Tylosurus crocodilus crocodilus</i>) | 1 | 4.77 | 4.86 | 8.44 | 5.50 | 3.95 | 1.57 | 5.56 | 5.21 | 0.80 | 5.46 |
| P041 | Myil meen (<i>Istiophorus platypterus</i>) | 2 | 2.95 | 4.78 | 7.94 | 7.21 | 2.03 | 1.94 | 4.48 | 5.34 | 0.90 | 5.94 |
| P042 | Nalla bontha (<i>Epinephelus</i> sp.) | 1 | 3.51 | 4.00 | 7.31 | 6.27 | 3.08 | 2.05 | 4.01 | 6.62 | 1.12 | 4.91 |
| P043 | Narba (<i>Caranx sexfasciatus</i>) | 2 | 5.32 | 4.44 | 7.58 | 6.54 | 3.88 | 1.92 | 5.47 | 4.81 | 1.23 | 5.43 |

| Food Code | Fish Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | g | | | | | | | | | |
| | | | HIS | ILE | LE | LYS | MET | CYS | PHE | THR | TRP | VAL |
| P044 | Paarai (<i>Caranx heberi</i>) | 1 | 3.09 | 4.11 | 7.82 | 7.08 | 3.96 | 1.15 | 4.86 | 4.37 | 1.12 | 5.20 |
| P045 | Padayappa (<i>Canthidermis maculata</i>) | 1 | 2.45 | 4.69 | 7.94 | 6.22 | 3.27 | 1.35 | 3.84 | 5.02 | 1.22 | 5.23 |
| P046 | Pali kora (<i>Panna microdon</i>) | 1 | 2.90 | 4.64 | 7.74 | 6.85 | 3.94 | 1.33 | 3.78 | 5.90 | 0.86 | 5.15 |
| P047 | Pambada (<i>Lepturacanthus savala</i>) | 2 | 2.73 | 4.58 | 7.77 | 6.44 | 3.38 | 1.27 | 5.51 | 6.13 | 0.94 | 5.20 |
| P048 | Pandukopa (<i>Pseudosciaena manchurica</i>) | 1 | 4.00 | 4.89 | 8.37 | 5.28 | 2.63 | 1.10 | 5.71 | 5.29 | 0.90 | 5.94 |
| P049 | Parava (<i>Lactarius lactarius</i>) | 1 | 2.60 | 4.77 | 8.11 | 5.25 | 3.73 | 1.76 | 4.18 | 4.82 | 0.89 | 5.09 |
| P050 | Parcus (<i>Psettodes erumei</i>) | 1 | 3.07 | 4.81 | 8.44 | 6.08 | 3.81 | 2.07 | 5.33 | 5.20 | 0.88 | 5.61 |
| P051 | Parrot fish (<i>Scarus ghobban</i>) | 1 | 2.61 | 4.86 | 8.06 | 7.06 | 3.62 | 1.96 | 5.34 | 5.18 | 0.78 | 5.66 |
| P052 | Perinkilichai (<i>Pinjalo pinjalo</i>) | 1 | 3.16 | 4.93 | 8.49 | 7.18 | 3.20 | 1.35 | 5.08 | 5.18 | 0.87 | 5.53 |
| P053 | Phopat (<i>Coryphaena hippurus</i>) | 4 | 3.40±0.13 | 4.66±0.24 | 7.72±0.29 | 7.30±0.44 | 3.02±0.17 | 1.57±0.28 | 3.99±0.47 | 5.18±0.22 | 1.00±0.11 | 5.39±0.33 |
| P054 | Piranha (<i>Pygoprits</i> sp.) | 1 | 3.26 | 4.51 | 8.05 | 7.24 | 2.87 | 1.14 | 3.74 | 5.10 | 1.05 | 5.15 |
| P055 | Pomfret, black (<i>Parastromateus niger</i>) | 2 | 4.36 | 4.77 | 8.11 | 5.52 | 2.42 | 1.52 | 6.43 | 5.12 | 1.12 | 5.95 |
| P056 | Pomfret, snub nose (<i>Trachinotus blochii</i>) | 2 | 3.19 | 5.52 | 7.94 | 6.04 | 3.13 | 1.71 | 4.25 | 4.89 | 0.89 | 5.45 |
| P057 | Pomfret, white (<i>Pampus argenteus</i>) | 2 | 3.80 | 4.64 | 8.21 | 7.03 | 2.99 | 1.75 | 6.38 | 5.28 | 1.11 | 5.42 |
| P058 | Pranel (<i>Gerres</i> sp.) | 1 | 3.00 | 4.55 | 7.75 | 5.94 | 3.24 | 1.82 | 5.85 | 4.79 | 1.05 | 5.97 |
| P059 | Pulli paarai (<i>Gnathanodon speciosus</i>) | 1 | 2.94 | 4.88 | 8.31 | 5.75 | 2.75 | 1.63 | 5.11 | 4.42 | 1.21 | 5.70 |
| P060 | Queen fish (<i>Scomberoides commersonianus</i>) | 3 | 0.86±0.50 | 4.56±0.11 | 7.58±0.21 | 5.93±0.26 | 3.63±0.50 | 1.39±0.38 | 4.25±0.42 | 5.98±2.20 | 0.80±0.17 | 5.32±0.31 |
| P061 | Raai fish (<i>Lobotes surinamensis</i>) | 2 | 2.80 | 4.52 | 8.05 | 6.48 | 3.10 | 1.76 | 5.54 | 5.91 | 1.07 | 5.17 |
| P062 | Raai vanthu (<i>Epinephelus chlorostigma</i>) | 1 | 3.26 | 4.47 | 7.89 | 6.71 | 2.98 | 2.14 | 5.02 | 6.50 | 1.62 | 5.06 |
| P063 | Rani (<i>Pink perch</i>) | 1 | 4.35 | 4.65 | 8.03 | 7.27 | 2.56 | 1.95 | 5.04 | 5.07 | 1.66 | 5.07 |
| P064 | Ray fish, bow head, spotted (<i>Rhina ancylostoma</i>) | 1 | 3.06 | 4.77 | 7.94 | 6.52 | 2.65 | 1.41 | 5.87 | 5.04 | 0.98 | 4.64 |
| P065 | Red snapper (<i>Lutjanus argentimaculatus</i>) | 1 | 3.14 | 4.57 | 7.89 | 6.32 | 3.80 | 1.68 | 6.28 | 6.16 | 1.12 | 5.26 |

Table 8. Amino Acid Profile

| Food Code | Fish Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | g | | | | | | | |
| | | | ALA | ARG | ASN | GLU | GLY | PRO | SER | TYR |
| P044 | Paarai (<i>Caranx heberi</i>) | 1 | 6.36 | 6.08 | 11.10 | 14.51 | 6.78 | 4.66 | 3.94 | 3.36 |
| P045 | Padayappa (<i>Canthidermis maculata</i>) | 1 | 6.30 | 6.06 | 13.85 | 15.76 | 6.40 | 4.06 | 4.30 | 3.55 |
| P046 | Pali kora (<i>Panna microdon</i>) | 1 | 5.49 | 5.72 | 10.57 | 15.68 | 4.78 | 3.12 | 4.57 | 3.19 |
| P047 | Pambada (<i>Lepturacanthus savala</i>) | 2 | 5.71 | 6.09 | 8.95 | 14.10 | 6.45 | 3.77 | 4.43 | 5.59 |
| P048 | Pandukopa (<i>Pseudosciaena manchurica</i>) | 1 | 5.31 | 7.08 | 9.66 | 14.10 | 5.19 | 3.75 | 4.45 | 5.44 |
| P049 | Parava (<i>Lactarius lactarius</i>) | 1 | 6.01 | 6.15 | 8.08 | 13.19 | 6.42 | 3.45 | 4.00 | 3.15 |
| P050 | Parcus (<i>Psettodes erumei</i>) | 1 | 5.29 | 6.43 | 9.08 | 14.97 | 4.69 | 3.35 | 4.43 | 5.58 |
| P051 | Parrot fish (<i>Scarus ghobban</i>) | 1 | 5.78 | 5.12 | 10.40 | 14.96 | 5.59 | 3.64 | 4.36 | 4.85 |
| P052 | Perinkilichai (<i>Pinjalo pinjalo</i>) | 1 | 5.59 | 7.30 | 9.94 | 14.94 | 4.50 | 3.47 | 4.49 | 4.56 |
| P053 | Phopat (<i>Coryphaena hippurus</i>) | 4 | 5.63±0.10 | 6.02±0.51 | 10.00±0.24 | 14.08±0.16 | 5.54±0.38 | 3.55±0.09 | 4.41±0.04 | 4.89±0.11 |
| P054 | Piranha (<i>Pygoprits</i> sp.) | 1 | 6.18 | 5.66 | 11.24 | 15.79 | 6.56 | 3.96 | 4.33 | 4.13 |
| P055 | Pomfret, black (<i>Parastromateus niger</i>) | 2 | 5.75 | 6.86 | 9.77 | 12.54 | 6.07 | 4.70 | 4.91 | 4.98 |
| P056 | Pomfret, snub nose (<i>Trachinotus blochii</i>) | 2 | 5.70 | 6.07 | 10.89 | 14.65 | 5.01 | 3.51 | 4.08 | 3.74 |
| P057 | Pomfret, white (<i>Pampus argenteus</i>) | 2 | 5.09 | 6.11 | 9.11 | 14.69 | 5.66 | 3.15 | 4.34 | 5.98 |
| P058 | Pranel (<i>Gerres</i> sp.) | 1 | 6.41 | 5.22 | 8.96 | 16.31 | 6.51 | 3.76 | 3.85 | 5.47 |
| P059 | Pulli paarai (<i>Gnathanodon speciosus</i>) | 1 | 6.42 | 5.06 | 11.60 | 14.05 | 5.50 | 3.99 | 3.93 | 5.86 |
| P060 | Queen fish (<i>Scomberoides commersonianus</i>) | 3 | 5.21±0.25 | 6.26±1.88 | 9.83±1.11 | 14.51±0.54 | 4.84±0.93 | 3.29±0.10 | 4.62±1.51 | 3.93±0.35 |
| P061 | Raai fish (<i>Lobotes surinamensis</i>) | 2 | 5.67 | 7.02 | 8.14 | 14.18 | 5.58 | 3.76 | 4.61 | 5.04 |
| P062 | Raai vanthu (<i>Epinephelus chlorostigma</i>) | 1 | 5.47 | 7.80 | 10.14 | 13.69 | 4.68 | 3.32 | 4.26 | 4.40 |
| P063 | Rani (<i>Pink perch</i>) | 1 | 5.40 | 8.24 | 9.10 | 12.08 | 5.90 | 4.11 | 4.34 | 5.73 |
| P064 | Ray fish, bow head, spotted (<i>Rhina ancylostoma</i>) | 1 | 5.76 | 6.03 | 8.38 | 16.86 | 6.76 | 3.94 | 4.05 | 3.25 |
| P065 | Red snapper (<i>Lutjanus argentimaculatus</i>) | 1 | 5.21 | 6.48 | 8.80 | 13.92 | 5.17 | 3.31 | 4.76 | 5.48 |

| Food Code | Fish Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|-----------|--|----------------|-----------|------------|-----------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LE | LYS | MET | CYS | PHE | THR | TRP | VAL |
| P066 | Red snapper, small (<i>Priacanthus hamrur</i>) | 1 | 3.49 | 4.39 | 8.59 | 5.04 | 2.59 | 1.64 | 6.78 | 5.74 | 0.89 | 5.14 |
| P067 | Sadaya (<i>Platax orbicularis</i>) | 1 | 3.29 | 4.47 | 8.82 | 5.16 | 2.91 | 1.18 | 6.44 | 5.73 | 1.26 | 5.42 |
| P068 | Salmon (<i>Salmo salar</i>) | 1 | 3.60 | 4.78 | 7.83 | 5.44 | 3.15 | 1.52 | 5.40 | 5.87 | 0.92 | 5.63 |
| P069 | Sangada (<i>Nemipterus japonicus</i>) | 1 | 2.39 | 4.60 | 8.71 | 6.72 | 2.21 | 1.09 | 6.34 | 6.32 | 0.96 | 5.19 |
| P070 | Sankata paarai (<i>Caranx ignobilis</i>) | 1 | 2.04 | 4.86 | 8.36 | 6.56 | 3.36 | 1.65 | 6.11 | 5.31 | 1.39 | 5.69 |
| P071 | Sardine (<i>Sardinella longiceps</i>) | 1 | 4.31 | 4.73 | 8.17 | 6.43 | 3.00 | 1.84 | 5.24 | 5.30 | 1.57 | 5.18 |
| P072 | Shark (<i>Carcharhinus sorrah</i>) | 2 | 3.58 | 5.05 | 7.41 | 5.73 | 4.31 | 2.46 | 3.81 | 5.65 | 0.85 | 5.52 |
| P073 | Shark, hammer head (<i>Sphyrna mokarran</i>) | 1 | 4.13 | 3.75 | 8.20 | 7.99 | 4.51 | 1.27 | 5.19 | 3.88 | 0.65 | 4.97 |
| P074 | Shark, spotted (<i>Stegostoma fasciatum</i>) | 1 | 3.69 | 5.22 | 8.44 | 4.47 | 3.38 | 0.92 | 4.04 | 5.38 | 0.96 | 5.49 |
| P075 | Shelavu (<i>Sphyrna jello</i>) | 4 | 2.76±0.31 | 4.66±0.27 | 8.18±0.46 | 6.33±0.41 | 3.37±0.53 | 1.35±0.29 | 5.56±0.74 | 5.06±0.18 | 1.08±0.28 | 5.46±0.16 |
| P076 | Silan (<i>Silonia silondia</i>) | 1 | 1.55 | 4.71 | 7.92 | 6.17 | 3.61 | 1.58 | 4.04 | 5.38 | 0.96 | 5.49 |
| P077 | Silk fish (<i>Beryx</i> sp.) | 1 | 3.39 | 4.36 | 7.84 | 6.34 | 3.22 | 1.47 | 3.98 | 4.93 | 1.22 | 5.02 |
| P078 | Silver carp (<i>Hypophthalmichthys molitrix</i>) | 1 | 4.51 | 4.75 | 7.24 | 6.11 | 4.24 | 1.41 | 5.32 | 4.69 | 1.17 | 4.77 |
| P079 | Sole fish (<i>Cynoglossus arel</i>) | 1 | 2.53 | 4.56 | 8.08 | 5.35 | 4.48 | 2.43 | 6.71 | 5.42 | 0.97 | 5.18 |
| P080 | Stingray (<i>Dasyatis pastinaca</i>) | 1 | 4.54 | 3.56 | 6.37 | 5.66 | 2.86 | 1.88 | 5.12 | 4.71 | 0.92 | 5.58 |
| P081 | Tarlava (<i>Drepane punctata</i>) | 2 | 4.06 | 4.72 | 8.11 | 6.14 | 2.13 | 1.58 | 5.08 | 4.90 | 0.82 | 5.38 |
| P082 | Tholam (<i>Plectorhinchus schotaf</i>) | 2 | 3.17 | 4.66 | 8.42 | 6.37 | 2.79 | 1.78 | 4.79 | 5.11 | 0.95 | 5.51 |
| P083 | Tilapia (<i>Oreochromis niloticus</i>) | 1 | 4.21 | 5.71 | 7.87 | 7.71 | 3.19 | 1.52 | 6.02 | 5.41 | 0.79 | 5.66 |
| P084 | Tuna (<i>Euthynnus affinis</i>) | 5 | 3.37±0.79 | 4.85±0.32 | 8.23±0.56 | 5.70±0.29 | 3.01±0.37 | 1.41±0.05 | 5.40±0.36 | 6.20±0.40 | 0.90±0.05 | 5.75±0.35 |
| P085 | Tuna, striped (<i>Katsuwonus pelamis</i>) | 1 | 2.70 | 4.96 | 8.16 | 7.11 | 3.93 | 1.79 | 4.29 | 5.40 | 1.63 | 6.03 |
| P086 | Valava (<i>Chirocentrus nudus</i>) | 1 | 3.14 | 4.94 | 8.32 | 7.62 | 3.65 | 1.52 | 4.65 | 5.26 | 1.09 | 5.71 |
| P087 | Vanjaram (<i>Scomberomorus commerson</i>) | 2 | 3.82 | 4.93 | 8.29 | 5.21 | 3.51 | 1.76 | 4.19 | 5.05 | 1.05 | 5.76 |

Table 8. Amino Acid Profile

| Food Code | Fish Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|-----------|--|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | ← g → | | | | | | | |
| | | | ALA | ARG | ASN | GLU | GLY | PRO | SER | TYR |
| P066 | Red snapper, small (<i>Priacanthus hamrur</i>) | 1 | 5.21 | 6.75 | 9.36 | 13.86 | 5.88 | 3.11 | 4.65 | 5.26 |
| P067 | Sadaya (<i>Platax orbicularis</i>) | 1 | 5.28 | 7.92 | 9.15 | 14.00 | 5.28 | 3.54 | 4.52 | 3.95 |
| P068 | Salmon (<i>Salmo salar</i>) | 1 | 5.31 | 7.25 | 9.77 | 14.05 | 5.50 | 3.53 | 4.82 | 4.97 |
| P069 | Sangada (<i>Nemipterus japonicus</i>) | 1 | 4.90 | 7.36 | 8.21 | 13.48 | 5.29 | 3.12 | 4.81 | 5.92 |
| P070 | Sankata paarai (<i>Caranx ignobilis</i>) | 1 | 5.56 | 4.90 | 10.62 | 14.54 | 4.94 | 3.59 | 4.87 | 4.55 |
| P071 | Sardine (<i>Sardinella longiceps</i>) | 1 | 5.36 | 6.45 | 10.65 | 13.86 | 5.66 | 4.41 | 4.62 | 4.11 |
| P072 | Shark (<i>Carcharhinus sorrah</i>) | 2 | 5.54 | 6.71 | 8.89 | 14.20 | 6.72 | 3.65 | 4.57 | 3.65 |
| P073 | Shark, hammer head (<i>Sphyrna mokarran</i>) | 1 | 5.75 | 4.23 | 9.04 | 13.68 | 6.24 | 6.30 | 4.13 | 3.54 |
| P074 | Shark, spotted (<i>Stegostoma fasciatum</i>) | 1 | 6.02 | 6.69 | 8.71 | 16.23 | 6.87 | 4.56 | 4.88 | 3.25 |
| P075 | Shelavu (<i>Sphyaena jello</i>) | 4 | 5.58±0.23 | 7.31±1.40 | 9.05±2.88 | 14.24±0.50 | 5.41±0.55 | 3.39±0.14 | 4.24±0.18 | 3.87±0.89 |
| P076 | Silan (<i>Silonia silondia</i>) | 1 | 5.18 | 7.44 | 7.79 | 15.05 | 5.76 | 4.02 | 6.41 | 4.26 |
| P077 | Silk fish (<i>Beryx</i> sp.) | 1 | 5.43 | 7.53 | 10.21 | 14.57 | 5.25 | 3.45 | 4.39 | 3.53 |
| P078 | Silver carp (<i>Hypophthalmichthys molitrix</i>) | 1 | 3.31 | 3.97 | 9.43 | 13.75 | 9.82 | 7.72 | 4.54 | 3.40 |
| P079 | Sole fish (<i>Cynoglossus arel</i>) | 1 | 5.71 | 6.24 | 8.01 | 14.66 | 4.98 | 3.36 | 4.65 | 5.79 |
| P080 | Stingray (<i>Dasyatis pastinaca</i>) | 1 | 5.21 | 5.94 | 8.21 | 13.94 | 5.65 | 4.18 | 5.65 | 4.33 |
| P081 | Tarlava (<i>Drepane punctata</i>) | 2 | 5.94 | 5.94 | 9.79 | 14.51 | 4.96 | 4.11 | 4.21 | 4.64 |
| P082 | Tholam (<i>Plectorhinchus schotaf</i>) | 2 | 5.86 | 5.68 | 9.51 | 15.03 | 5.80 | 3.70 | 4.36 | 3.67 |
| P083 | Tilapia (<i>Oreochromis niloticus</i>) | 1 | 3.05 | 6.47 | 9.02 | 13.03 | 4.89 | 5.62 | 5.17 | 5.67 |
| P084 | Tuna (<i>Euthynnus affinis</i>) | 5 | 5.28±0.64 | 6.46±1.00 | 8.60±0.30 | 13.49±0.51 | 5.60±0.36 | 3.49±0.36 | 4.53±0.31 | 5.19±1.01 |
| P085 | Tuna, striped (<i>Katsuwonus pelamis</i>) | 1 | 5.97 | 7.02 | 8.04 | 14.20 | 5.24 | 3.46 | 4.50 | 5.72 |
| P086 | Valava (<i>Chirocentrus nudus</i>) | 1 | 5.60 | 5.02 | 10.14 | 16.04 | 4.41 | 3.30 | 4.90 | 4.21 |
| P087 | Vanjaram (<i>Scomberomorus commerson</i>) | 2 | 5.71 | 6.81 | 10.31 | 14.51 | 5.90 | 3.74 | 4.35 | 3.74 |

| Q | MARINE SHELLFISH | | | | | | | | | | | |
|------|--|---|------|------|------|------|------|------|------|------|------|------|
| Q001 | Crab (<i>Menippe mercenaria</i>) | 1 | 2.33 | 4.54 | 6.35 | 7.11 | 3.43 | 1.69 | 4.72 | 2.43 | 1.41 | 4.79 |
| Q002 | Crab, sea (<i>Portunus sanguinolentus</i>) | 1 | 2.20 | 4.48 | 7.30 | 7.82 | 3.62 | 1.60 | 4.11 | 4.81 | 0.64 | 4.91 |
| Q003 | Lobster, brown (<i>Thenus orientalis</i>) | 1 | 2.74 | 4.98 | 8.62 | 7.73 | 3.99 | 1.52 | 3.70 | 5.09 | 0.75 | 5.87 |
| Q004 | Lobster, king size (<i>Thenus orientalis</i>) | 1 | 3.22 | 4.37 | 6.45 | 7.53 | 4.24 | 1.91 | 4.83 | 4.33 | 0.88 | 5.38 |
| Q005 | Mud crab (<i>Scylla tranquebarica</i>) | 1 | 1.73 | 4.12 | 6.90 | 6.78 | 2.39 | 1.42 | 4.07 | 4.28 | 1.15 | 4.67 |
| Q006 | Oyster (<i>Crassostrea</i> sp.) | 1 | 2.34 | 4.56 | 7.08 | 6.06 | 2.21 | 1.16 | 3.87 | 4.76 | 0.92 | 5.31 |
| Q007 | Tiger prawns, brown (<i>Solenocera crassicornis</i>) | 1 | 2.03 | 4.55 | 7.72 | 7.49 | 3.43 | 1.77 | 4.60 | 4.90 | 0.87 | 5.06 |
| Q008 | Tiger Prawns, orange (<i>Penaeus monodon</i>) | 1 | 2.11 | 4.67 | 7.39 | 7.93 | 3.81 | 2.04 | 3.68 | 4.90 | 0.71 | 5.13 |

R MARINE MOLLUSKS

| | | | | | | | | | | | | |
|-------------|---|---|------|------|------|------|------|------|------|------|------|------|
| R001 | Clam, green shell (<i>Perna viridis</i>) | 1 | 2.42 | 4.44 | 6.43 | 4.12 | 3.62 | 1.30 | 3.71 | 5.61 | 0.92 | 4.92 |
| R002 | Clam, white shell, ribbed (<i>Meretrix meretrix</i>) | 1 | 2.23 | 4.06 | 6.31 | 4.62 | 3.08 | 0.79 | 3.18 | 5.09 | 0.79 | 4.69 |
| R003 | Octopus (<i>Octopus vulgaris</i>) | 1 | 4.48 | 5.82 | 8.48 | 7.55 | 2.46 | 1.87 | 6.37 | 5.82 | 0.88 | 5.30 |
| R004 | Squid, black (<i>Loligo</i> sp.) | 1 | 4.14 | 4.05 | 8.49 | 6.58 | 2.25 | 1.69 | 5.21 | 5.53 | 0.93 | 4.62 |
| R005 | Squid, hard shell (<i>Sepia pharaonis</i>) | 1 | 3.89 | 4.24 | 7.57 | 5.09 | 3.89 | 1.75 | 3.21 | 4.45 | 0.71 | 4.19 |

| Q | MARINE SHELLFISH | | | | | | | | | |
|------|--|---|------|------|-------|-------|------|------|------|------|
| Q001 | Crab (<i>Menippe mercenaria</i>) | 1 | 2.80 | 3.37 | 8.31 | 13.53 | 7.58 | 3.34 | 4.17 | 3.56 |
| Q002 | Crab, sea (<i>Portunus sanguinolentus</i>) | 1 | 6.19 | 6.91 | 8.11 | 15.34 | 7.97 | 3.97 | 3.62 | 3.81 |
| Q003 | Lobster, brown (<i>Thenus orientalis</i>) | 1 | 6.08 | 6.81 | 10.35 | 15.93 | 6.69 | 3.86 | 4.68 | 3.43 |
| Q004 | Lobster, king size (<i>Thenus orientalis</i>) | 1 | 3.43 | 5.13 | 8.32 | 13.76 | 6.38 | 7.55 | 4.77 | 4.53 |
| Q005 | Mud crab (<i>Scylla tranquebarica</i>) | 1 | 5.47 | 7.47 | 8.68 | 14.34 | 7.48 | 4.85 | 3.70 | 3.88 |
| Q006 | Oyster (<i>Crassostrea</i> sp.) | 1 | 5.57 | 6.07 | 10.93 | 14.64 | 7.88 | 5.24 | 4.61 | 3.61 |
| Q007 | Tiger prawns, brown (<i>Solenocera crassicornis</i>) | 1 | 5.25 | 7.69 | 8.84 | 14.31 | 5.94 | 3.52 | 4.16 | 3.79 |
| Q008 | Tiger Prawns, orange (<i>Penaeus monodon</i>) | 1 | 5.37 | 5.65 | 8.60 | 14.50 | 5.95 | 3.41 | 4.07 | 3.40 |

| | | | | | | | | | | |
|------|--|---|------|------|-------|-------|------|------|------|------|
| R001 | Clam, green shell (<i>Perna viridis</i>) | 1 | 4.44 | 6.21 | 10.19 | 13.15 | 8.87 | 3.64 | 5.20 | 3.67 |
| R002 | Clam, white shell, ribbed (<i>Meretrix meretrix</i>) | 1 | 6.80 | 7.54 | 10.20 | 13.55 | 8.43 | 3.35 | 4.71 | 3.17 |
| R003 | Octopus (<i>Octopus vulgaris</i>) | 1 | 5.34 | 6.59 | 8.90 | 10.43 | 5.84 | 4.43 | 4.75 | 6.32 |
| R004 | Squid, black (<i>Loligo</i> sp.) | 1 | 5.27 | 6.99 | 10.65 | 13.08 | 5.95 | 4.56 | 4.16 | 4.30 |
| R005 | Squid, hard shell (<i>Sepia pharaonis</i>) | 1 | 4.43 | 7.03 | 9.96 | 13.99 | 4.64 | 4.44 | 4.50 | 2.91 |

| Food Code | Fish Name | No. of Regions | Histidine | Isoleucine | Leucine | Lysine | Methionine | Cystine | Phenylalanine | Threonine | Tryptophan | Valine |
|---|---|----------------|-----------|------------|-----------|-----------|------------|------------|---------------|-----------|------------|-----------|
| | | | ← g → | | | | | | | | | |
| | | | HIS | ILE | LE | LYS | MET | CYS | PHE | THR | TRP | VAL |
| R006 | Squid, red (<i>Loligo duvaucelii</i>) | 2 | 3.54 | 5.34 | 7.84 | 5.58 | 3.77 | 1.52 | 6.47 | 7.18 | 1.24 | 5.10 |
| R007 | Squid, white, small (<i>Uroteuthis duvauceli</i>) | 1 | 4.54 | 4.14 | 5.99 | 7.94 | 3.31 | 1.74 | 4.38 | 4.88 | 0.97 | 4.80 |
| R FRESH WATER FISH AND SHELLFISH | | | | | | | | | | | | |
| R001 | Cat fish (<i>Tandanus tandanus</i>) | 2 | 4.80±0.29 | 4.46±0.33 | 7.29±0.82 | 8.11±0.23 | 6.07±0.15 | 14.31±1.10 | 5.30±0.20 | 3.46±0.77 | 1.18±0.45 | 5.15±0.12 |
| R002 | Catla (<i>Catla catla</i>) | 6 | 5.23±0.11 | 4.06±0.86 | 7.53±0.39 | 8.09±0.05 | 5.61±0.66 | 15.25±0.91 | 5.49±0.22 | 3.54±0.37 | 0.74±0.17 | 5.18±0.09 |
| R003 | Freshwater Eel (<i>Anguilla anguilla</i>) | 1 | 3.67 | 3.43 | 3.41 | 5.94 | 4.62 | 10.94 | 4.07 | 3.46 | 1.22 | 4.56 |
| R004 | Gold fish (<i>Carassius auratus</i>) | 1 | 4.90 | 4.47 | 6.31 | 7.94 | 5.76 | 14.49 | 5.14 | 2.50 | 1.03 | 5.23 |
| R005 | Pangas (<i>Pangasianodon hypophthalmus</i>) | 2 | 8.30 | 6.59 | 3.83 | 4.57 | 4.01 | 4.74 | 4.49 | 4.19 | 1.26 | 6.07 |
| R006 | Rohu (<i>Labeo rohita</i>) | 6 | 4.77±0.39 | 4.09±0.54 | 6.27±0.69 | 8.03±0.55 | 5.57±0.44 | 15.13±0.75 | 5.26±0.37 | 2.90±0.58 | 1.04±0.28 | 5.39±0.72 |
| R007 | Crab (<i>Pachygrapsus</i> sp.) | 1 | 3.86 | 3.73 | 5.19 | 6.82 | 4.97 | 13.27 | 3.94 | 3.43 | 0.93 | 3.96 |
| R008 | Prawns, big (<i>Macrobrachium rosenbergii</i>) | 3 | 4.66 | 2.99 | 6.72 | 7.79 | 5.16 | 14.75 | 4.57 | 3.33 | 1.11 | 4.72 |
| R009 | Prawns, small (<i>Macrobrachium</i> sp.) | 6 | 4.45±0.28 | 4.11±0.57 | 6.76±0.77 | 7.89±0.58 | 5.73±0.43 | 14.71±0.87 | 5.37±0.41 | 2.92±0.63 | 1.02±0.17 | 5.17±0.68 |
| R010 | Tiger prawns (<i>Macrobrachium</i> sp.) | 2 | 4.19 | 2.96 | 4.85 | 7.54 | 5.15 | 15.67 | 4.64 | 3.53 | 0.94 | 4.75 |

| Food Code | Fish Name | No. of Regions | Alanine | Arginine | Aspartic Acid | Glutamic Acid | Glycine | Proline | Serine | Tyrosine |
|----------------------------------|---|----------------|-----------|-----------|---------------|---------------|-----------|-----------|-----------|-----------|
| | | | g | | | | | | | |
| | | | ALA | ARG | ASN | GLU | GLY | PRO | SER | TYR |
| R006 | Squid, red (<i>Loligo duvaucelii</i>) | 2 | 5.71 | 6.75 | 8.86 | 12.38 | 5.48 | 3.27 | 5.79 | 5.63 |
| R007 | Squid, white, small (<i>Uroteuthis duvauceli</i>) | 1 | 4.74 | 4.67 | 9.75 | 8.18 | 5.33 | 4.34 | 4.60 | 4.46 |
| R FRESH WATER FISH AND SHELLFISH | | | | | | | | | | |
| R001 | Cat fish (<i>Tandanus tandanus</i>) | 2 | 2.38±0.43 | 4.03±0.54 | 1.56±0.17 | 6.74±0.65 | 8.78±0.99 | 7.13±1.37 | 4.72±0.54 | 3.82±0.32 |
| R002 | Catla (<i>Catla catla</i>) | 6 | 2.64±0.33 | 3.53±0.05 | 1.08±0.55 | 6.64±1.21 | 9.32±2.68 | 6.75±1.68 | 4.43±0.03 | 2.88±0.75 |
| R003 | Freshwater Eel (<i>Anguilla anguilla</i>) | 1 | 2.06 | 4.06 | 1.12 | 7.74 | 6.53 | 5.97 | 3.52 | 3.78 |
| R004 | Gold fish (<i>Carassius auratus</i>) | 1 | 3.12 | 3.19 | 1.61 | 7.39 | 8.61 | 7.77 | 4.38 | 3.14 |
| R005 | Pangas (<i>Pangasianodon hypophthalmus</i>) | 2 | 13.64 | 95.04 | 3.34 | 6.08 | 2.84 | 8.44 | 6.51 | 5.31 |
| R006 | Rohu (<i>Labeo rohita</i>) | 6 | 2.45±0.64 | 3.68±1.15 | 1.45±0.12 | 7.19±0.24 | 9.60±0.89 | 6.41±0.57 | 4.63±0.50 | 3.40±0.92 |
| R007 | Crab (<i>Pachygrapsus</i> sp.) | 1 | 2.92 | 5.27 | 2.03 | 9.15 | 8.42 | 7.73 | 3.80 | 5.17 |
| R008 | Prawns, big (<i>Macrobrachium rosenbergii</i>) | 3 | 2.79 | 3.28 | 1.82 | 9.11 | 9.10 | 5.49 | 4.13 | 2.66 |
| R009 | Prawns, small (<i>Macrobrachium</i> sp.) | 6 | 2.56±0.43 | 4.42±0.77 | 1.51±0.43 | 6.52±1.01 | 8.32±2.18 | 6.30±1.04 | 4.36±0.57 | 3.86±0.53 |
| R010 | Tiger prawns (<i>Macrobrachium</i> sp.) | 2 | 2.35 | 4.06 | 1.41 | 10.29 | 8.84 | 4.24 | 4.30 | 3.59 |