

Table 8

AMINO ACID PROFILE



Table 8. AMINO ACID PROFILE

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

Food Name	Histidine	Isoleucine	Luecine	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 Name	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine	
	ALA	ARG	ASP	GLU	GLY	PRO	SER	TYR	
	←	g	→						
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

261	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>Dolichos 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
			$\leftarrow \text{g} \rightarrow$									
			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

Table 8. Amino Acid Profile

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Food code	Food Name	No. of Regions	Amino Acid Profile (g/100g)							
			Left		Center				Right	
			Alanine ALA	Arginine ARG	Aspartic Acid ASP	Glutamic Acid GLU	Glycine GLY	Proline PRO	Serine SER	Tyrosine 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
			$\xleftarrow{\text{g}}$									
			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 f. 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 f. 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>gongyloides</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	<—————g—————>							
			Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			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 f. 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 f. 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
			$\leftarrow \text{g} \rightarrow$									
			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	NoRegions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			<—————g—————>							
			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 gourd, 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 gourd, 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 gourd, 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 gourd, 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 gourd, 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 gourd, 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

Table 8. Amino Acid Profile

Food code	Food Name	No. of Regions	<—————g—————>							
			Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			ALA	ARG	ASP	GLU	GLY	PRO	SER	TYR
D015	Brinjal-6 (<i>Solanum melongena</i>)	2	5.50	4.70	15.15	22.59	4.78	3.64	3.57	4.46
D016	Brinjal-7 (<i>Solanum melongena</i>)	1	7.03	5.34	14.02	17.88	4.32	4.19	4.67	3.01
D017	Brinjal-8 (<i>Solanum melongena</i>)	3	5.75±0.75	5.37±0.35	15.40±1.02	19.63±1.11	4.60±0.28	3.90±0.49	4.22±0.27	3.32±0.34
D018	Brinjal-9 (<i>Solanum melongena</i>)	2	5.31	5.97	16.10	15.96	4.63	3.96	4.01	2.99
D019	Brinjal-10 (<i>Solanum melongena</i>)	2	4.39	5.95	15.27	21.73	3.66	3.25	3.01	2.48
D020	Brinjal-11 (<i>Solanum melongena</i>)	6	5.71±1.69	4.98±1.07	16.71±1.98	20.98±2.17	4.28±0.76	3.49±0.92	3.82±0.71	2.88±0.68
D021	Brinjal-12 (<i>Solanum melongena</i>)	2	5.07	5.25	15.62	19.92	4.18	3.04	3.46	2.51
D022	Brinjal-13 (<i>Solanum melongena</i>)	1	5.43	5.57	16.67	18.85	3.71	3.74	3.82	2.79
D023	Brinjal-14 (<i>Solanum melongena</i>)	3	5.37±0.29	5.23±0.35	16.21±0.69	19.59±2.16	3.91±0.14	4.08±0.36	3.35±0.37	2.60±0.49
D024	Brinjal-15 (<i>Solanum melongena</i>)	4	5.31±0.34	4.48±1.25	16.23±0.72	20.53±1.76	3.81±0.11	3.26±0.46	3.79±0.64	2.68±0.57
D025	Brinjal-16 (<i>Solanum melongena</i>)	1	5.54	5.43	16.88	21.96	3.85	3.12	3.85	2.17
D026	Brinjal-17 (<i>Solanum melongena</i>)	1	5.19	5.61	15.45	19.39	3.94	3.28	3.83	2.99
D027	Brinjal-18 (<i>Solanum melongena</i>)	3	5.51±0.60	4.98±0.30	15.68±0.24	21.38±1.48	3.82±0.07	3.39±0.80	3.87±0.26	2.83±0.12
D028	Brinjal-19 (<i>Solanum melongena</i>)	3	5.70±0.36	4.34±0.88	16.98±1.41	21.76±3.24	3.64±0.15	3.73±0.57	4.28±0.01	3.16±0.41
D029	Brinjal-20 (<i>Solanum melongena</i>)	5	5.61±1.05	4.32±0.60	16.36±3.20	21.23±2.21	4.45±0.58	3.30±0.53	4.15±0.46	2.66±0.37
D030	Brinjal-21 (<i>Solanum melongena</i>)	2	5.48	5.02	17.23	21.64	4.30	3.45	3.90	2.58
D031	Brinjal - all varieties (<i>Solanum melongena</i>)	6	5.37±1.01	5.02±0.79	16.01±1.59	20.62±2.36	4.11±0.55	3.56±0.61	3.82±0.52	2.85±0.60
D032	Broad beans (<i>Vicia faba</i>)	3	6.43±0.01	7.61±0.01	14.41±0.64	13.83±0.38	4.80±0.10	4.51±0.35	4.54±0.21	2.83±0.13
D033	Capsicum, green (<i>Capsicum annuum</i>)	6	6.43±0.79	3.07±0.97	14.89±2.12	24.82±3.73	4.86±0.62	3.83±1.39	4.30±0.65	2.91±0.93
D034	Capsicum, red (<i>Capsicum annuum</i>)	4	6.53±0.22	3.36±0.24	14.28±1.32	25.17±0.94	5.69±0.32	2.97±0.16	4.84±0.29	2.89±0.13
D035	Capsicum, yellow (<i>Capsicum annuum</i>)	4	5.34±0.26	3.84±0.36	14.95±1.18	24.51±0.15	5.22±0.43	2.45±0.14	4.96±0.25	2.93±0.19
D036	Cauliflower (<i>Brassica oleracea</i>)	6	7.96±1.00	4.15±0.94	10.61±1.49	20.70±2.88	4.15±0.31	3.45±0.76	5.15±0.61	2.89±0.34

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 tetragonobolus</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

Table 8. Amino Acid Profile

Food code	Food Name	No. of Regions	<—————g—————>							
			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 tetragonobolus</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
			$\frac{\text{ALA}}{\text{ASP}}$							
			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>Emblema 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

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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
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
			g									
			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>Carica 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

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
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 sp.</i>)	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>Ducus 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>Ducus 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>Ipomoea 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>Ipomoea 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

Table 8. Amino Acid Profile

Food code	Food Name	No. of Regions	g											
			Alanine		Arginine		Aspartic Acid		Glutamic Acid		Glycine	Proline	Serine	Tyrosine
			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>Ducus 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>Ducus 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>Ipomoea 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>Ipomoea 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	
283	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

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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

Foodcode	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

Foodcode	Food Name	No. of Regions	Amino Acid Profile (g)											
			Alanine		Arginine		Aspartic Acid		Glutamic Acid		Glycine	Proline	Serine	Tyrosine
			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	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, kernel, 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 hypogaea</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>Pistacia 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

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Table 8. Amino Acid Profile

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
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Food code	Food Name	No. of Regions	g							
			<		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, kernel, 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 hypogaea</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>Pistacia 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												
289	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 Group	Food Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			$\leftarrow \text{g} \rightarrow\right)$							
			ALA	ARG	ASP	GLU	GLY	PRO	SER	TYR
I	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	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	
291	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, quail, whole, raw	1	4.86	2.40	7.11	7.96	6.18	10.79	6.03	6.50		5.73
	M015	Egg, quail, 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	

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, quail, whole, raw	1	2.64	13.77	4.14	1.85	3.36	5.77	6.43	3.73
M015	Egg, quail, 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 Name	No.of g	Amino Acid Profile										
		Histidine	Isoleucine	Leucine	Lysine	Methionine	Cystine	Phenylalanine	Threonine	Tryptophan	Valine	
		<					>					
No.	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

Food Cod e	Food Name	No.of	g							
			Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			ALA	ARG	ASP	GLU	GLY	PRO	SER	TYR
N005	Poultry, chicken, liver	1	2.53	12.74	4.65	1.44	4.51	5.11	4.44	3.81
N006	Poultry, chicken, gizzard	1	2.55	14.29	5.63	1.67	5.90	4.53	4.01	3.78
N007	Country hen, leg, with skin	1	2.49	15.12	3.03	1.19	3.69	5.16	5.57	3.97
N008	Country hen, thigh, with skin	1	2.63	15.54	4.76	1.08	4.87	5.04	4.96	3.99
N009	Country hen, breast, with skin	1	2.47	15.91	4.34	1.08	5.06	4.98	4.78	4.09
N010	Country hen, wing, with skin	1	2.84	15.93	5.37	1.16	4.60	4.64	3.77	3.86
N011	Duck, meat, with skin	1	2.65	14.99	4.80	1.14	4.47	5.46	4.43	4.59
N012	Emu, meat, skinless	1	2.89	14.36	4.83	1.24	4.53	5.77	4.26	4.39
N013	Guinea fowl, meat, with skin	1	2.58	14.57	4.98	0.99	4.20	4.88	4.04	3.45
N014	Pigeon, meat, with skin	1	3.02	14.38	4.77	1.16	4.14	5.33	4.19	3.62
N015	Quail, meat, skinless	1	2.89	14.35	5.03	1.27	3.50	5.74	4.46	4.13
N016	Turkey, leg, with skin	1	3.08	15.71	4.55	1.43	4.13	5.80	4.46	4.04
N017	Turkey, thigh, with skin	1	2.69	16.08	4.66	1.44	4.27	5.82	4.65	3.89
N018	Turkey, breast, with skin	1	2.57	15.39	4.62	1.12	4.26	5.46	4.09	4.36
N019	Turkey, wing, with skin	1	2.35	16.62	5.20	1.43	4.28	5.10	4.22	4.07

O ANIMAL MEAT

O001	Goat, shoulder	6	2.17±0.17	14.68±0.73	5.63±0.34	1.35±0.18	4.72±0.13	4.19±0.39	4.34±0.30	3.95±0.43
O002	Goat, chops	6	2.56±0.57	14.31±1.25	6.05±0.70	1.35±0.16	4.20±0.47	4.59±0.17	4.24±0.63	3.71±0.23
O003	Goat, legs	6	2.79±0.30	14.02±1.12	5.64±0.58	1.67±0.57	4.08±0.45	4.63±0.31	4.43±0.42	4.66±0.79
O004	Goat, brain	5	3.05±0.29	13.68±0.35	5.72±0.23	1.29±0.08	4.20±0.14	4.82±0.09	5.29±0.35	4.68±0.55
O005	Goat, tongue	4	2.38±0.52	13.47±0.63	6.34±0.36	1.45±0.11	4.78±0.53	4.15±0.28	4.64±0.75	3.97±0.62

Table 8. Amino Acid Profile

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

Table 8. Amino Acid Profile

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CodeFood	Food Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			< g >							
			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 Name	No. of Regions	Histidine	Isoleucine	Leucine	Lysine	Methionine	Cystine	Phenylalanine	Threonine	Tryptophan	Valine
		g^{-1}									
		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

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CodeFood	Food Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			$\xleftarrow{\text{ALA ARG ASP GLU}} \text{g} \xrightarrow{\text{GLY PRO SER TYR}}$							
			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 ID	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	
299	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

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CodeFood	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
			$\frac{\text{HIS}}{\text{ILE}} \times \frac{\text{LE}}{\text{LYS}} \times \frac{\text{MET}}{\text{CYS}} \times \frac{\text{PHE}}{\text{THR}} \times \frac{\text{TRP}}{\text{VAL}}$									
			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>Apriion 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>Harpodon 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 quinquefasciatus</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>Rhinobatos prahlii</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>Tenualoosa 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 sp.</i>)	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	g							
			Alanine		Arginine		Aspartic Acid		Glutamic Acid	
			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>Harpodon 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 quinquefasciatus</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>Rhinobatos prahli</i>)	1	6.14	6.69	9.13	14.68	5.78	5.29	4.29	4.85
P017	Hilsa (<i>Tenualoosa ilisha</i>)	2	4.43	4.15	1.72	13.13	6.66	6.85	4.43	3.83
P018	Jallal (<i>Arius sp.</i>)	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
			$\frac{\text{HIS}}{\text{ILE}} \times \frac{\text{LE}}{\text{LYS}} \times \frac{\text{MET}}{\text{CYS}} \times \frac{\text{PHE}}{\text{THR}} \times \frac{\text{TRP}}{\text{VAL}}$									
			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>Etroplus 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 sp.</i>)	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

Table 8. Amino Acid Profile

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Food Code	Fish Name	No. of Regions	g							
			Alanine		Arginine		Aspartic Acid		Glutamic Acid	
			ALA	ARG	ASN	GLU	GLY	PRO	SER	TYR
P022	Kalamaara (<i>Leptomelanosoma indicum</i>)	2	5.48	7.75	8.39	13.66	5.38	3.55	4.44	5.55
P023	Kalava (<i>Epinephelus coioides</i>)	1	5.41	6.54	9.33	14.20	5.83	3.82	4.44	4.50
P024	Kanamayya (<i>Lutjanus rivulatus</i>)	2	5.66	6.09	10.96	14.60	5.42	3.73	4.63	5.24
P025	Kannadi paarai (<i>Alectis indicus</i>)	3	5.34±0.20	6.01±0.22	9.73±1.86	13.56±0.62	5.09±0.25	3.37±0.08	4.43±0.21	4.28±0.13
P026	Karimeen (<i>Etroplus suratensis</i>)	1	6.36	6.48	11.62	15.32	6.34	3.69	4.50	3.20
P027	Karnagawala (<i>Anchoa hepsetus</i>)	1	5.69	6.63	9.28	13.80	5.18	3.33	5.36	3.39
P028	Kayrai (<i>Thunnus albacores</i>)	2	5.56	6.33	9.56	13.19	4.56	3.69	4.04	4.71
P029	Kiriyan (<i>Atule mate</i>)	1	5.54	6.56	10.05	14.49	6.06	3.37	4.22	3.93
P030	Kite fish (<i>Mobula kuhlii</i>)	1	5.25	6.70	10.35	14.85	6.30	3.57	4.47	4.96
P031	Korka (<i>Terapon jarbua</i>)	1	5.36	8.53	8.38	13.01	5.75	3.14	4.22	3.03
P032	Kulam paarai (<i>Carangoides fulvoguttatus</i>)	1	5.64	7.64	10.08	12.26	6.13	3.68	5.02	4.09
P033	Maagaa (<i>Polynemus plebeius</i>)	1	5.67	6.34	8.91	15.62	4.96	3.54	4.45	5.61
P034	Mackerel (<i>Rastrelliger kanagurta</i>)	3	5.41±0.54	5.81±0.54	9.96±0.72	13.38±0.59	5.28±0.26	3.27±0.24	4.46±0.11	4.59±0.15
P035	Manda clathi (<i>Naso reticulatus</i>)	1	5.29	6.64	10.88	13.48	5.35	3.22	4.13	4.61
P036	Matha (<i>Acanthurus mata</i>)	2	5.52	8.02	8.66	13.56	5.22	3.63	4.39	4.80
P037	Milk fish (<i>Chanos chanos</i>)	1	6.23	6.15	8.60	14.07	5.06	3.96	3.93	4.84
P038	Moon fish (<i>Mene maculata</i>)	1	5.67	5.74	11.43	14.70	5.36	3.58	4.07	4.26
P039	Mullet (<i>Mugil cephalus</i>)	3	5.57±0.29	7.18±0.38	8.33±0.67	14.52±0.52	5.76±0.37	3.54±0.37	4.60±0.36	5.27±0.31
P040	Mural (<i>Tylosurus crocodilus crocodilus</i>)	1	5.56	6.08	8.24	14.67	5.80	3.83	4.29	4.98
P041	Myil meen (<i>Istiophorus platypterus</i>)	2	5.44	7.37	8.56	13.97	5.65	3.53	4.50	4.08
P042	Nalla bontha (<i>Epinephelus sp.</i>)	1	6.61	7.43	9.59	13.21	4.71	2.73	5.41	4.90
P043	Narba (<i>Caranx sexfasciatus</i>)	2	5.42	6.11	9.75	13.59	5.44	3.36	4.12	4.74

Code	Fish Name	No. of Regions	Histidine	Isoleucine	Leucine	Lysine	Methionine	Cystine	Phenylalanine	Threonine	Tryptophan	Valine
												
			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>Pygopritis</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 (Pink perch)	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

Table 8. Amino Acid Profile

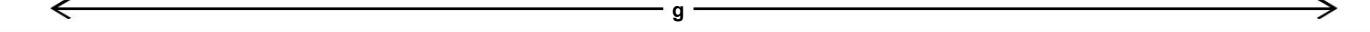
Food Code	Fish Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			$\xleftarrow{\text{g}} \xrightarrow{\text{g}}$							
			ALA	ARG	ASN	GLU	GLY	PRO	SER	TYR
P044	Paarai (<i>Caranx heberi</i>)	1	6.36	6.08	11.10	14.51	6.78	4.66	3.94	3.36
P045	Padayappa (<i>Canthidermis 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>Pygopristis sp.</i>)	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 sp.</i>)	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

Code Food	Fish Name	No. of Regions	Histidine	Isoleucine	Leucine	Lysine	Methionine	Cystine	Phenylalanine	Threonine	Tryptophan	Valine
												
			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>Sphyraena 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

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Food Code	Fish Name	No. of Regions	g							
			Alanine		Arginine		Aspartic Acid		Glutamic Acid	
			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>Sphyraena 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>Sphyraena 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	Tar lava (<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

		No. of Regions	Histidine	Isoleucine	Leucine	Lysine	Methionine	Cystine	Phenylalanine	Threonine	Tryptophan	Valine	
													
Fish Name			HIS	ILE	LE	LYS	MET	CYS	PHE	THR	TRP	VAL	
P088	Vela meen (<i>Aprion virescens</i>)	1	3.61	4.82	8.12	5.45	2.34	2.21	6.17	5.51	0.93	5.65	
P089	Vora (<i>Siganus javus</i>)	2	3.76	4.99	8.49	6.58	2.95	1.47	5.13	5.27	0.77	5.79	
P090	Whale shark (<i>Galeocerdo cuvier</i>)	1	4.02	4.90	8.19	5.46	3.40	1.72	7.00	5.26	1.15	5.30	
P091	Xiphinis (<i>Xiphias gladius</i>)	1	5.94	4.68	7.90	5.92	3.51	2.05	4.82	5.07	0.77	5.27	
P092	Eggs, Cat fish (<i>Ompok bimaculatus</i>)	1	4.55	5.21	8.04	7.36	2.80	1.63	6.30	5.21	1.06	5.15	

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
R004	Squid, black (<i>Loligo</i> sp.)											
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
		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

Food dehydroxyproline	Fish Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
			< g >							
			ALA	ARG	ASN	GLU	GLY	PRO	SER	TYR
P088	Vela meen (<i>Aprion virescens</i>)	1	5.42	6.57	8.71	14.28	6.04	3.53	4.46	4.69
P089	Vora (<i>Siganus javus</i>)	2	5.85	4.46	9.41	15.08	5.14	3.70	4.16	4.56
P090	Whale shark (<i>Galeocerdo cuvier</i>)	1	5.49	5.88	9.02	13.93	6.13	3.85	4.37	5.16
P091	Xiphinis (<i>Xiphias gladius</i>)	1	5.12	5.67	8.73	13.64	5.41	3.51	4.36	4.38
P092	Eggs, Cat fish (<i>Ompok bimaculatus</i>)	1	3.38	6.53	9.31	12.24	5.28	5.38	4.72	5.57

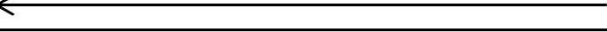
Q MARINE SHELLFISH

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>Thenu s orientalis</i>)	1	6.08	6.81	10.35	15.93	6.69	3.86	4.68	3.43
Q004	Lobster, king size (<i>Thenu s 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

R MARINE MOLLUSKS

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
			$\frac{\text{HIS}}{\text{ILE}} \times \frac{\text{LE}}{\text{LYS}} \times \frac{\text{MET}}{\text{CYS}} \times \frac{\text{PHE}}{\text{THR}} \times \frac{\text{TRP}}{\text{VAL}}$									
			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
113	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
	Crab (<i>Pachygrapsus sp.</i>)	1	3.86	3.73	5.19	6.82	4.97	13.27	3.94	3.43	0.93	3.96
	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
	Prawns, small (<i>Macrobrachium sp.</i>)	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
	Tiger prawns (<i>Macrobrachium sp.</i>)	2	4.19	2.96	4.85	7.54	5.15	15.67	4.64	3.53	0.94	4.75

Foodcode	Fish Name	No. of Regions	Alanine	Arginine	Aspartic Acid	Glutamic Acid	Glycine	Proline	Serine	Tyrosine
										
			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 sp.</i>)	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 sp.</i>)	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 sp.</i>)	2	2.35	4.06	1.41	10.29	8.84	4.24	4.30	3.59