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| Software Testing & Inspection |
| Functional testing with equivalence classes |
| CS4004 |

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| Equivalence Class # | Description | Valid or Invalid | Example |
| 1 | **Unit of Measure** “**C**” OR “**P**” OR “**S**” | Valid | C |
| 2 | **Unit of Measure** **not** “**C**” OR “**P**” OR “**S**” | Invalid | Dave |
| 3 | **Metric size** “**g**” OR “**ml**” | Valid | ml |
| 4 | **Metric size** **not** “**g**” OR “**ml**” | Invalid | Power |
| 5 | **Qty** **less** than **1** **Size** **less** than **1** | Invalid | 0 |
| 6 | **Qty** in the range **1** to **20** | Valid | 14 |
| 7 | **Qty** **greater** than **20** | Invalid | I7324324 |
| 8 | **Size** in the range **1** to **200** | Valid | 32 |
| 9 | **Size** **greater** 200 | Invalid | 232 |
| 10 | Single comma separates each entry in a list of exactly 5 items | Valid | 1.0, 1.0, 1.0, 1.0, 0.2 |
| 11 | A comma does not separate each entry in the list | Invalid | 1.0 1.0, 1.0 1.0, 0.2 |
| 12 | **Item 0/1/2/3/4** is the decimal number rounded to one decimal place | Valid | 1.0, 1.0, 1.0, 1.0, 0.2 |
| 13 | **Item 0/1/2/3/4** is not the decimal number rounded to one decimal place | Invalid | 1.11, 3.423, 3.4237, 1.32, 0.435 |

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| Equivalence Class # | Description | Valid or Invalid | Example |
| 14 | **Item 0/1** in nutrient list [**Protein/Carbohydrate**] is in the range **1.0** to **10.0** | Valid | 4.6 |
| 15 | Item **0/1** in nutrient list [**Protein/Carbohydrate**] is less than **1.0** | Invalid | 0 |
| 16 | **Item 0/1** in nutrient list [**Protein/Carbohydrate**] is **greater** than **10.0** | Invalid | 12 |
| 17 | **Item 2/3/4** in nutrient list [**Fat/Fibre/Sodium**] is greater than **0.1** | Valid | 1.0 |
| 18 | **Item 2/3/4** in nutrient list [**Fat/Fibre/Sodium**] is **less** than **0.1** | Invalid | 0 |
| 19 | **Item 2** in nutrient list  [**Fat**] is in the range **0.1** to **4.9** | Valid | 3.4 |
| 20 | **Item2** in nutrient list  [**Fat**] is greater than 4.9 | Invalid | 5.4 |
| 21 | **Item 3** in nutrient list  [**Fibre**] is in the range **0.1** to **2.9** | Valid | 1.4 |
| 22 | **Item 3** in nutrient list  [**Fibre**] is **greater** than **2.9** | Invalid | 8.5 |
| 23 | **Item 4** in nutrient list  [**Sodium**] is in the range **0.1** to **0.4** | Valid | 0.2 |
| 24 | **Item 4** in nutrient list  [**Sodium**] is **greater** than **0.4** | Invalid | 0.5 |