**Supplemental Table S2. Maltase deficiency patterns (U/mg protein)**

**(Maltase < 100 from Total 30 K Series)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | Class | N | Mean | StDev | Minimum | Maximum | ANOVA\* | p |
| Lactase | AGD | 872 | 16.486 | 6.906 | 10.000 | 68.600 | C | 0.000 |
|  | CSID | 50 | 42.01 | 19.67 | 13.10 | 94.70 | A |  |
|  | PDD | 2853 | 3.8000 | 2.852 | 0.100 | 9.9000 | D |  |
|  | PMD | 52 | 22.77 | 18.32 | 0.10 | 62.70 | B |  |
|  |  |  |  |  |  |  |  |  |
| Sucrase | AGD | 872 | 23.468 | 6.437 | 0.000 | 46.500 | B | 0.000 |
|  | CSID | 50 | 7.35 | 8.24 | 0.00 | 22.50 | D |  |
|  | PDD | 2853 | 17.289 | 8.290 | 0.000 | 47.100 | C |  |
|  | PMD | 52 | 54.66 | 22.07 | 11.00 | 107.80 | A |  |
|  |  |  |  |  |  |  |  |  |
| Maltase | AGD | 872 | 80.219 | 14.752 | 2.600 | 99.700 | A | 0.000 |
|  | CSID | 50 | 51.60 | 24.41 | 17.10 | 93.30 | C |  |
|  | PDD | 2853 | 62.541 | 24.394 | 0.000 | 99.800 | B |  |
|  | PMD | 52 | 37.63 | 32.55 | 3.00 | 92.90 | D |  |
|  |  |  |  |  |  |  |  |  |
| Palatinase | AGD | 825 | 5.529 | 3.033 | 0.000 | 44.700 | B | 0.000 |
|  | CSID | 47 | 2.121 | 2.368 | 0.000 | 10.000 | D |  |
|  | PDD | 2671 | 3.819 | 3.483 | 0.0000 | 106.000 | C |  |
|  | PMD | 49 | 9.455 | 5.394 | 2.800 | 25.200 | A |  |
|  |  |  |  |  |  |  |  |  |
| Age | AGD | 866 | 10.023 | 7.260 | 0.003 | 79.280 | B | 0.000 |
|  | CSID | 50 | 6.512 | 5.185 | 0.334 | 18.727 | C |  |
|  | PDD | 2845 | 11.314 | 6.610 | 0.003 | 90.136 | A |  |
|  | PMD | 52 | 9.723 | 5.144 | 0.235 | 21.481 | ABC |  |
|  |  |  |  |  |  |  |  |  |
| M-2.24S | AGD | 872 | 27.651 | 11.286 | -7.360 | 86.148 | B | 0.000 |
|  | CSID | 50 | 35.14 | 13.88 | 13.26 | 78.54 | A |  |
|  | PDD | 2853 | 23.813 | 11.739 | -13.648 | 79.548 | C |  |
|  | PMD | 52 | -84.82 | 53.91 | -215.27 | -15.14 | D |  |
|  |  |  |  |  |  |  |  |  |
| L/S | AGD | 869 | 0.7958 | 1.2803 | 0.2701 | 32.3000 | B | 0.000 |
|  | CSID | 29 | 6.84 | 9.87 | 1.27 | 39.46 | A |  |
|  | PDD | 2825 | 0.26577 | 0.29987 | 0.00228 | 7.91667 | C |  |
|  | PMD | 52 | 0.4042 | 0.2643 | 0.0009 | 1.1552 | BC |  |

\*ANOVA (p) and Tukey’s test (values with same letter are not different).