**High-phytate/low-calcium diet is a risk factor for crystal nephropathies, renal phosphate wasting, and bone loss**

**Supplement File 2**. The nutrient compositions for three different diets.

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| --- | --- | --- | --- |
|  | Wite rice (WR) | Brown rice (BR) | Brown rice + Rice bran (BR+RB) |
| Energy (kcal) | 2,280.8 ± 176.2 | 3,219.5 ± 176.2  | 3,818.6 ± 165.4  |
| Carbohydrates (g) | 369.0 ± 46.3 | 574.2 ± 46.3  | 540.9 ± 45.2  |
| lipids (g) | 49.7 ± 8.6 | 59.6 ± 8.6  | 112.9 ± 8.5  |
| Protein (g) | 93.5 ± 10.0 | 118.0 ± 0.0  | 151.7 ± 9.3  |
| Fibers (g) | 48.4 ± 11.4 | 61.5 ± 11.4  | 82.0 ± 10.6  |
| Moisture (water) | 1,165.1 ± 136.2 | 1,188.4 ± 136.2  | 1,195.0 ± 175.5  |
| Vitamin A (ug RE) | 698.7 ± 283.2 | 698.0 ± 283.2  | 691.6 ± 285.1  |
| Vitamin D (ug) | 3.8 ± 4.3 | 3.8 ±4.3  | 3.8 ± 4.3  |
| Vitamin E (mg) | 37.1 ± 9.8 | 42.3 ± 9.8  | 41.1 ± 9.4  |
| Vitamin K (ug) | 310.3 ± 109.4 | 310.3 ± 109.4  | 310.3 ± 109.4  |
| Vitamin C (mg) | 200.2 ± 25.2 | 200.2 ±25.2  | 98.2 ± 28.5  |
| Thiamine (mg) | 2.1 ± 0.4 | 2.9 ± 0.4  | 10.3 ± 0.4  |
| Riboflavin (mg) | 2.1 ± 0.6 | 2.4 ± 0.6  | 3.8 ± 0.6  |
| Niacin (mg) | 21.6 ± 4.7 | 36.9 ± 4.7  | 109.2 ± 4.6  |
| Vitamin B6 (mg) | 3.0 ± 0.8 | 4.8 ± 0.8  | 4.5 ± 0.8  |
| Folic acid (ug) | 1,091.8 ± 131.8 | 1,157.5 ± 131.8  | 1,108.3 ± 129.0  |
| Vatamin B12 (ug) | 10.6 ± 1.6 | 10.6 ± 1.6  | 10.6 ± 1.6  |
| Vitamin B5 (ug) | 5.3 ± 1.1 | 9.8 ±1.1  | 8.7 ± 1.1  |
| Biotin (ug) | 2.3 ± 2.7 | 2.3 ± 2.7  | 2.3 ± 2.7  |
| Ca (mg) | 966.6 ± 231.8 | 982.8 ± 231.8  | 1,098.9 ± 197.5  |
| Pi (mg) | 1,517.6 ± 84.6 | 2,695.1 ± 84.6  | 7,283.5 ± 67.6  |
| Na (mg) | 6,470.3 ± 674.9 | 6,839.0 ± 674.9  | 6,718.4 ± 623.4  |
| Cl (mg) | 33.0 ± 11.5 | 33.0 ± 11.5  | 33.0 ± 11.5  |
| K (mg) | 5,126.5 ± 1,372.0 | 6,498.1 ± 1,372.0  | 11,609.5 ± 1,302.3  |
| Mg (mg) | 148.1 ± 18.4 | 148.1 ± 18.4  | 3,148.1 ± 18.4  |
| Fe (mg) | 30.4 ± 5.3 | 30.8 ± 5.3  | 48.1 ± 5.2  |
| Zn (mg) | 13.1 ± 1.8 | 18.6 ± 1.8  | 35.8 ± 1.6  |
| Cu (ug) | 926.4 ± 231.8 | 2,256.0 ± 0.2  | 3,916.5 ± 231.8  |
| F (ug) | 0.1 ± 0.1 | 1.0 ± 0.1  | 0.1 ± 0.1  |
| Mn (mg) | 3.9 ± 2.1 | 8.3 ± 2.1  | 7.6 ± 2.1  |
| I (ug) | 533.2 ± 766.8 | 533.2 ± 766.8  | 533.2 ± 766.8  |
| Se (ug) | 80.1 ± 14.1 | 192.4 ± 14.1  | 175.6 ± 14.1  |
| Co (ug) | 0.3 ± 0.6 | 0.3 ± 0.6  | 0.3 ± 0.6  |
| Mo (ug) | 2.5 ± 0.7 | 2.5 ± 0.7  | 2.5 ± 0.7  |