

**TABLE J3**  
**Nutrient Composition of NTP-2000 Rat and Mouse Ration**

Nutrient	Mean ± Standard Deviation	Range	Number of Samples
Protein (% by weight)	14.4 ± 0.38	13.9 – 15.1	17
Crude fat (% by weight)	8.4 ± 0.37	7.7 – 9.2	17
Crude fiber (% by weight)	9.4 ± 0.41	8.6 – 9.9	17
Ash (% by weight)	4.9 ± 0.13	4.7 – 5.1	17
<b>Amino Acids (% of total diet)</b>			
Arginine	0.794 ± 0.070	0.67 – 0.97	26
Cystine	0.220 ± 0.022	0.15 – 0.25	26
Glycine	0.700 ± 0.038	0.62 – 0.80	26
Histidine	0.344 ± 0.074	0.27 – 0.68	26
Isoleucine	0.546 ± 0.041	0.43 – 0.66	26
Leucine	1.092 ± 0.063	0.96 – 1.24	26
Lysine	0.700 ± 0.110	0.31 – 0.86	26
Methionine	0.408 ± 0.043	0.26 – 0.49	26
Phenylalanine	0.621 ± 0.048	0.47 – 0.72	26
Threonine	0.508 ± 0.040	0.43 – 0.61	26
Tryptophan	0.153 ± 0.027	0.11 – 0.20	26
Tyrosine	0.413 ± 0.063	0.28 – 0.54	26
Valine	0.663 ± 0.040	0.55 – 0.73	26
<b>Essential Fatty Acids (% of total diet)</b>			
Linoleic	3.95 ± 0.242	3.49 – 4.55	26
Linolenic	0.31 ± 0.030	0.21 – 0.35	26
<b>Vitamins</b>			
Vitamin A (IU/kg)	3,899 ± 77	2,820 – 5,450	17
Vitamin D (IU/kg)	1,000 <sup>a</sup>		
α-Tocopherol (ppm)	79.7 ± 20.42	27.0 – 124.0	26
Thiamine (ppm) <sup>b</sup>	11.8 ± 17.85	6.6 – 81.0	17
Riboflavin (ppm)	8.1 ± 2.91	4.20 – 17.50	26
Niacin (ppm)	78.9 ± 8.52	66.4 – 98.2	26
Pantothenic acid (ppm)	26.7 ± 11.63	17.4 – 81.0	26
Pyridoxine (ppm) <sup>b</sup>	9.7 ± 2.09	6.44 – 14.3	26
Folic acid (ppm)	1.59 ± 0.45	1.15 – 3.27	26
Biotin (ppm)	0.32 ± 0.10	0.20 – 0.704	26
Vitamin B <sub>12</sub> (ppb)	51.8 ± 36.6	18.3 – 174.0	26
Choline (ppm) <sup>b</sup>	2,665 ± 631	1,160 – 3,790	26
<b>Minerals</b>			
Calcium (%)	0.903 ± 0.070	0.697 – 1.01	17
Phosphorus (%)	0.553 ± 0.026	0.510 – 0.596	17
Potassium (%)	0.669 ± 0.030	0.626 – 0.733	26
Chloride (%)	0.386 ± 0.037	0.300 – 0.474	26
Sodium (%)	0.193 ± 0.024	0.160 – 0.283	26
Magnesium (%)	0.216 ± 0.057	0.185 – 0.490	26
Sulfur (%)	0.170 ± 0.029	0.116 – 0.209	14
Iron (ppm)	190.5 ± 38.0	135 – 311	26
Manganese (ppm)	50.7 ± 9.72	21.0 – 73.1	26
Zinc (ppm)	58.2 ± 26.89	43.3 – 184.0	26
Copper (ppm)	7.44 ± 2.60	3.21 – 16.3	26
Iodine (ppm)	0.514 ± 0.195	0.158 – 0.972	26
Chromium (ppm)	0.674 ± 0.265	0.330 – 1.380	25
Cobalt (ppm)	0.235 ± 0.157	0.094 – 0.864	24

<sup>a</sup> From formulation

<sup>b</sup> As hydrochloride (thiamine and pyridoxine) or chloride (choline)