

Supplementary Table 1: Micronutrient composition of diets.

Micronutrients	CTR	HSD	HPD
<i>Minerals</i>			
<i>Calcium (mg)</i>	1000	400	920
<i>Chlorine (mg)</i>	400	160	-
<i>Cobalt (mg)</i>	0.15	0.06	-
<i>Copper (mg)</i>	1	0.4	-
<i>Fluorine (mg)</i>	8	3.2	-
<i>Iodine (mg)</i>	0.2	0.08	-
<i>Iron (mg)</i>	5	2	23.54
<i>Magnesium (mg)</i>	37	14	19.32
<i>Manganese (mg)</i>	6	2.4	0.55
<i>Phosphorus(mg)</i>	80	32	92
<i>Potassium (mg)</i>	1060	420	1100
<i>Selenium(mg)</i>	0.005	0.002	-
<i>Sodium (mg)</i>	270	152	92
<i>Zinc (mg)</i>	6	2.4	2.02
<i>Vitamins</i>			
<i>Biotin (mg)</i>	0.005	0.002	-
<i>Choline (mg)</i>	190	76	60
<i>Folic acid (mg)</i>	0.1	0.04	0.2
<i>Niacin (mg)</i>	6	2.4	3.0
<i>Riboflavin (mg)</i>	-	-	0.6
<i>Vitamin A (IU)</i>	1300	520	400
<i>Vitamin B1 (mg)</i>	0.5	0.2	0.6
<i>Vitamin B12 (µg)</i>	2.2	0.88	2.5
<i>Vitamin B2 (mg)</i>	0.6	0.24	-
<i>Vitamin B6 (mg)</i>	0.7	0.28	0.7
<i>Vitamin D3 (IU)</i>	200	80	100
<i>Vitamin E (IU)</i>	3.4	1.36	7.5
<i>Vitamin K3 (mg)</i>	0.3	0.12	0.0001

CTR, standard chow; HSD, high-sucrose diet; HPD, high-protein diet.