

**Table S2** Composition and nutrient levels of basal diet (% , as-fed basis)

Item	Ctrl	6%MP	9%MP	12%MP
Corn, CP 7.6%	74.23	69.77	68.23	66.61
Soybean meal, CP 43.6%	11.78	11.16	10.60	10.12
Wheat bran, CP 17.17%	10.40	9.60	8.80	8.00
Mulberry Powder	0.00	6.00	9.00	12.00
Soybean oil	0.60	0.50	0.40	0.30
Limestone	0.93	0.92	0.90	0.87
Dicalcium phosphate	0.58	0.62	0.66	0.70
Salt	0.30	0.30	0.30	0.30
L-Lysine HCl, 78%	0.28	0.24	0.22	0.21
DL-Methionine, 98%	0.03	0.04	0.04	0.05
L-Threonine, 98%	0.09	0.07	0.07	0.06
L-Tryptophan, 98%	0.03	0.03	0.03	0.03
Chromic oxide	0.25	0.25	0.25	0.25
Premix <sup>1</sup>	0.50	0.50	0.50	0.50
Total	100.00	100.00	100.00	100.00
<b>Nutritional level (Caculated)</b>				
Digestive energy, MJ/kg	14.26	14.26	14.26	14.26
Crude protein	13.27	13.09	12.88	12.70
Lysine	0.83	0.83	0.83	0.83
Methionine	0.26	0.26	0.26	0.26
Threonine	0.57	0.57	0.57	0.57
Calcium	0.58	0.58	0.58	0.58
Total phosphorus	0.46	0.46	0.46	0.46
<b>Nutritional level (Analyzed)</b>				
Gross energy, MJ/kg	16.01	16.02	15.97	16.06
Crude protein	12.89	12.54	12.31	11.88
Ether extract	3.84	3.71	3.32	3.35
Organic matter	95.91	95.44	95.25	95.13

<sup>1</sup> Premix provided the following per kg of diets: vitamin A (retinyl acetate), 8,250 IU; vitamin D<sub>3</sub> (cholecalciferol), 825 IU; vitamin E (DL-alpha-tocopheryl acetate), 40 IU; vitamin K<sub>3</sub> (menadione nicotinamide bisulfite), 4.0 mg; vitamin B<sub>1</sub> (thiamine mononitrate), 1.0 mg; riboflavin, 5.0 mg; vitamin B<sub>5</sub> (DL-calcium pantothenate), 15 mg; vitamin B<sub>6</sub> (pyridoxine hydrochloride), 2.0 mg; vitamin

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B<sub>12</sub>, 25 µg; niacin, 35 mg; folacin, 2 mg; biotin, 4 mg; choline chloride, 600 mg; Mn (MnO), 25 mg; Fe (FeSO<sub>4</sub>·H<sub>2</sub>O), 80 mg; Zn (ZnSO<sub>4</sub>), 100 mg; Cu (CuSO<sub>4</sub>·5H<sub>2</sub>O), 50 mg; I (KI), 0.5 mg; Se (Na<sub>2</sub>SeO<sub>3</sub>), 0.15 mg