

**Table 1.** Ingredient and calculated composition of the experimental diets (as-fed basis).

Item	Diet	
	Soy-Max Meal-1 <sup>1</sup>	Soy-Max Meal-2 <sup>2</sup>
Ingredient, %		
Cornstarch	51.3	51.3
DESBM-1	44.4	—
DESBM-2	—	44.4
Monocalcium phosphate	2	2
Limestone	0.5	0.5
Vitamin-mineral premix <sup>3</sup>	1	1
Salt	0.5	0.5
Titanium dioxide	0.3	0.3
Calculated concentrations		
CP, %	18	18
Ca, %	0.6	0.6
Total P, %	0.5	0.5

<sup>1</sup>Soy-Max Meal-1 = Soy-Max Soybean Meal (batch 1).

<sup>2</sup>Soy-Max Meal-2 = Soy-Max Soybean Meal (batch 2).

<sup>3</sup>Provided per kilogram of diet: vitamin A, 8250 IU; vitamin D3, 825 IU; vitamin E, 40 IU; vitamin K, 4 mg; riboflavin, 5 mg; niacin, 35 mg; vitamin B12, 25 mg; biotin, 200 mg; Cu, 15 mg as copper sulfate; I, 0.21 mg as potassium iodide; Fe, 100 mg as ferrous sulfate; Mn, 20 mg as manganous oxide; Se, 0.15 mg as sodium selenite; and Zn, 100 mg as zinc oxide.

**Table 2.** Analyzed nutrient composition of the ingredients and diets (as-fed basis).

Nutrient	Ingredient		Diet	
	Soy-Max Meal-1	Soy-Max Meal-2	Soy-Max Meal -1	Soy-Max Meal-2
DM, %	96.06	95.9	94.38	94.25
CP %	40.155	39.73	18.53	19.02
Crude fat, %	8.40	8.28	3.06	3.33
GE, kcal/kg	4785	4768	4125	4107
AA, %				
ASP	4.77	4.74	2.16	2.24
THR	1.57	1.57	0.71	0.72
SER	2.32	2.30	1.07	1.11
GLU	7.26	7.29	3.39	3.51
PRO	2.04	2.08	0.92	0.98
GLY	1.64	1.65	0.74	0.76
ALA	2.00	2.03	0.94	0.95
CYS	0.70	0.75	0.27	0.28
VAL	1.82	1.82	0.85	0.81
MET	0.54	0.59	0.29	0.29
ILE	1.70	1.70	0.79	0.78
LEU	3.00	3.04	1.38	1.44
TYR	1.29	1.29	0.57	0.56
PHE	2.00	1.94	0.89	0.91
HIS	1.27	1.28	0.58	0.61
LYS	2.72	2.72	1.25	1.27
ARG	2.78	2.81	1.28	1.31
TRP	0.48	0.53	0.20	0.25

Soy-Max Meal-1 = Soy-Max Soybean Meal (batch 1);

Soy-Max Meal-2 = Soy-Max Soybean Meal (batch 2).

**Table 6.** Standardized ileal digestible content of AA in Soy-Max Soybean Meal fed to growing pigs (g/kg).

<b>Items</b>	<b>Soy-Max Meal-1</b>	<b>Soy-Max Meal-2</b>	<b>SEM</b>	<b>P-value</b>
ASP	42.20	41.64	0.881	0.534
THR	13.55	13.52	0.392	0.945
SER	20.53	20.21	0.425	0.469
GLU	66.25	65.92	1.427	0.818
PRO	22.43	22.86	0.472	0.382
GLY	14.49	14.78	0.405	0.485
ALA	17.53	17.68	0.324	0.853
CYS	5.47	5.69	0.238	0.355
VAL	15.28	14.91	0.367	0.333
<b>MET</b>	<b>4.92</b>	<b>5.32</b>	<b>0.080</b>	<b>0.0002</b>
ILE	14.85	14.57	0.301	0.374
LEU	27.10	27.09	0.497	0.988
TYR	11.67	11.51	0.326	0.631
<b>PHE</b>	<b>18.14</b>	<b>17.44</b>	<b>0.350</b>	<b>0.066</b>
HIS	9.92	10.26	0.440	0.462
LYS	25.13	25.14	0.388	0.985
ARG	26.65	26.84	0.356	0.604
<b>TRP</b>	<b>4.05</b>	<b>4.46</b>	<b>0.110</b>	<b>0.003</b>

Soy-Max Meal-1 = Soy-Max Soybean Meal (batch 1).

Soy-Max Meal-2 = Soy-Max Soybean Meal (batch 2).

**Table 7.** Apparent ileal digestibility (AID) (%) of AA in Soy-Max Soybean Meal fed to growing pigs

<b>Items</b>	<b>Soy-Max Meal-1</b>	<b>Soy Max Meal-2</b>	<b>SEM</b>	<b>P-value</b>
ASP	83.4	82.7	1.836	0.691
THR	78.2	77.8	2.496	0.858
SER	81.6	81.0	1.814	0.718
GLU	86.9	86.0	1.954	0.656
PRO	82.0	81.2	2.045	0.704
GLY	73.1	73.8	2.445	0.765
ALA	82.1	81.5	1.897	0.734
CYS	70.2	68.5	3.281	0.623
VAL	84.2	81.7	2.013	0.245
MET	86.0	85.7	1.448	0.822
ILE	87.5	85.7	1.766	0.320
LEU	85.8	84.6	1.632	0.508
TYR	85.3	83.8	2.540	0.567
PHE	86.9	86.0	1.777	0.619
HIS	59.5	61.7	3.353	0.528
LYS	87.4	87.2	1.426	0.861
ARG	91.2	90.8	1.267	0.741
TRP	79.9	78.9	2.106	0.654

Soy-Max Meal-1 = Soy-Max Soybean Meal (batch 1)

Soy-Max Meal-2 = Soy-Max Soybean Meal (batch 2) ( $n = 8$ ).

**Table 8.** Standardized ileal digestibility (SID) (%) of AA in Soy-Max Soybean Meal fed to growing pigs

<b>Items</b>	<b>Soy-Max Meal -1</b>	<b>Soy-Max Meal -2</b>	<b>SEM</b>	<b>P-value</b>
ASP	89.5	87.8	1.675	0.334
THR	86.4	86.0	2.499	0.877
SER	89.6	88.0	1.656	0.352
GLU	91.2	90.4	1.962	0.678
PRO	109.8	109.7	2.279	0.957
GLY	88.4	87.6	2.859	0.795
ALA	87.9	87.2	1.901	0.749
CYS	77.7	76.1	3.297	0.622
VAL	89.9	87.5	1.963	0.241
MET	92.0	90.7	0.868	0.149
ILE	91.8	90.1	1.757	0.325
LEU	90.2	89.1	1.648	0.528
TYR	90.4	88.9	2.523	0.571
PHE	90.6	89.8	1.774	0.641
HIS	79.4	82.0	3.055	0.407
LYS	92.6	92.4	1.427	0.888
ARG	95.8	96.0	1.182	0.833
TRP	85.3	84.6	2.190	0.768

Soy-Max Meal-1 = Soy-Max Soybean Meal (batch 1)

Soy-Max Meal-2 = Soy-Max Soybean Meal (batch 2) ( $n = 8$ ).

**Table 9.** Apparent ileal digestibility (AID) (%) of AA in solvent-extracted, dry extruded-expelled soybean meal, and Soy-Max Soybean Meal fed to growing pigs

<b>Items</b>	<b>Solvent Extracted SBM Published<sup>1</sup></b>	<b>DESBM-1 Published</b>	<b>DESBM-2 Published</b>	<b>Soy-Max Meal-1 Current study</b>	<b>Soy-Max Meal-2 Current study</b>
ASP	84.2	83.0	81.3	83.4	82.7
THR	78.3	75.6	72.6	78.2	77.8
SER	85.0	81.3	79.5	81.6	81.0
GLU	87.9	86.4	85.6	86.9	86.0
PRO	77.6	65.7	61.4	82.0	81.2
GLY	76.3	71.6	68.2	73.1	73.8
ALA	83.2	78.9	79.5	82.1	81.5
CYS	78.2	75.8	78.4	70.2	68.5
VAL	81.3	80.9	80.1	84.2	81.7
MET	84.8	73.0	79.0	86.0	85.7
ILE	82.2	82.8	83.4	87.5	85.7
LEU	85.2	82.9	82.7	85.8	84.6
TYR	85.8	82.6	81.8	85.3	83.8
PHE	86.3	84.2	84.4	86.9	86.0
HIS	87.3	84.3	83.8	59.5	61.7
LYS	86.9	84.3	83.9	87.4	87.2
ARG	89.9	88.7	88.3	91.2	90.8
TRP				79.9	78.9

<sup>1</sup>Data from Opapeju et al 2006