

**Supplementary Table S2** *Ingredient and calculated nutrient composition (g/kg, as-fed basis) of diets used in Experiment 2*

Ingredient	Diets <sup>1</sup>			
	Non-autoclaved DDGS <sup>2</sup>	Autoclaved DDGS - 125°C, 60 minutes		
	Diet 1	Diet 2	Diet 3	Diet 4
Non-autoclaved DDGS	220	0	0	0
Autoclaved DDGS	0	220	220	220
Ground corn	622	622	622	622
Soybean meal	85.0	85.0	85.0	85.0
Soybean oil	14.64	14.64	14.64	15.93
Corn starch	20.0	20.0	19.5	16.7
Dicalcium phosphate	9.8	9.8	9.8	9.8
Ground limestone	11.3	11.3	11.3	11.3
Salt	1.5	1.5	1.5	1.5
Vitamin-mineral premix <sup>3</sup>	3.0	3.0	3.0	3.0
L-Lysine	6.95	6.95	7.15	7.54
L-Threonine	1.81	1.81	1.86	2.1
DL-Methionine	1.46	1.46	1.6	1.84
L-Tryptophan	0.98	0.98	1.01	1.1
L-Valine	0.91	0.91	0.92	1.3
L-Isoleucine	0.6	0.6	0.65	0.91
Calculated nutrients, <sup>4</sup>				
NE (MJ/kg)	10.40	10.35	10.36	10.40
CP	160.2	159.7	160.1	161.3

Total Lysine	11.3	11.3	11.3	11.5
SID Lysine	10.0	10.0 (9.5)	10.0 (9.7)	10.0
SID Methionine	11.3	11.3 (11.1)	11.3 (11.2)	11.5
SID Methionine + cysteine	3.8	3.8 (3.6)	3.8 (3.6)	4.0
SID Threonine	6.0	6.0 (5.6)	6.0 (5.7)	6.0
SID Tryptophan	6.3	6.3 (6.0)	6.3 (6.1)	6.3
SID Isoleucine	2.1	2.1 (2.0)	2.1 (2.0)	2.1
SID Valine	5.4	5.4 (5.1)	5.4 (5.1)	5.4
SID Leucine	6.8	6.8 (6.4)	6.8 (6.4)	6.8
Ca	7.0	7.0	7.0	7.0
Available P	3.5	3.5	3.5	3.5

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<sup>1</sup>Diet 3 = diet was formulated taking into account the negative effects of heat damage on the concentration of amino acids; Diet 4 = diet was formulated taking into account the negative effects of heat damage on the concentration and on the digestibility of amino acids.

<sup>2</sup>DDGS = distillers dried grains with solubles.

<sup>3</sup>The vitamin-trace mineral premix provided the following quantities of vitamins and micro minerals per kilogram of complete diet: Vitamin A as retinyl acetate, 11,128 IU; vitamin D<sub>3</sub> as cholecalciferol, 2,204 IU; vitamin E as DL- $\alpha$ -tocopherol acetate, 66 IU; vitamin K as menadionenicotinamide bisulfate, 1.42 mg; thiamin as thiamine mononitrate, 0.24 mg; riboflavin, 6.58 mg; pyridoxine as pyridoxine hydrochloride, 0.24 mg; vitamin B<sub>12</sub>, 0.03 mg; D-pantothenic acid as D-calcium pantothenate, 23.5 mg; niacin as nicotinamide, 1.0 mg, and nicotinic acid, 43.0 mg; folic acid, 1.58 mg; biotin, 0.44 mg; Cu, 10 mg as copper sulfate; Fe, 125 mg as iron sulfate; I, 1.26 mg as

potassium iodate; Mn, 60 mg as manganese sulfate; Se, 0.3 mg as sodium selenite;  
and Zn, 100 mg as zinc oxide.

<sup>4</sup>SID = standardized ileal digestible; Values in parentheses were accounted for the effects of adjusting the diet formulation for NIR analyzed total amino acids and an additional adjustment for the negative effects of heat damage on the SID of amino acids from Aminodat® 4.0.