

**Lincolnland Agri-Energy LLC
Palestine, Illinois**

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METHOD: AOAC; ICP; MOD/AOAC

PROXIMATE ANALYSIS, CALCULATED DE, ME AND NE VALUES FOR SWINE, AND MINERAL AND AMINO ACID CONTENT OF DDGS.¹

Proximate Analysis:

Dry Matter (%)	Crude Protein (%)	Crude Fat (%)	AH Fat (%)	Crude Fiber (%)	Ash (%)	Nitrogen Free Extract (%)	Carbohydrates (%)	Acid Detergent Fiber (%)	Total Digestible Nutrients (%)	Digestible Energy ² (kcal/kg)	Metabolizable Energy ² (kcal/kg)	Net Energy ³ (kcal/kg)
90.13	29.06	12.30	ND ⁴	7.10	5.67	45.87	52.97	14.65	87.23	4141	3900	2140

Mineral Analysis:

Calcium (%)	Phosphorus (%)	Potassium (%)	Magnesium (%)	Sulfur (%)	Sodium (%)	Chloride (%)	Zinc (ppm)	Manganese (ppm)	Copper (ppm)	Iron (ppm)
0.07	0.84	1.33	0.33	0.71	0.26	ND ⁴	61	20	7	121

Amino Acid Analysis:

Arginine (%)	Histidine (%)	Isoleucine (%)	Leucine (%)	Lysine (%)	Methionine (%)	Cystine (%)	Phenylalanine (%)	Threonine (%)	Tryptophan (%)	Valine (%)
1.28	0.80	1.11	3.26	0.94	0.61	0.55	1.39	1.03	0.18	1.46

¹ Nutrient values expressed on 100% dry matter basis.

² DE (for swine) = 4,151 – (122 x % Ash) + (23 x %CP) + (38 x %Fat) – (64 x %Crude Fiber); ME (for swine) = DE x [1.003 - (0.0021 x %CP)], Noblet and Perez (1993).

³ NE (for swine) = 328 + (0.599 x ME) – (15 x %Ash) – (30 x %ADF), Ewan (1989).

⁴ ND = not determined.

APPARENT AND STANDARDIZED TRUE ILEAL DIGESTIBILITY OF CRUDE PROTEIN AND AMINO ACIDS OF DDGS FOR SWINE (100% DRY MATTER BASIS).

	DM	CP	Agr	His	Ile	Leu	Lys	Met	Phe	Thr	Trp	Val	Ala	Asp	Cys	Glu	Gly	Pro	Ser
TOTAL, %	90.1	33.90	1.45	0.88	1.23	3.64	1.03	0.59	1.55	1.21	0.27	1.61	2.35	2.16	0.57	5.50	1.32	2.52	1.46
AID¹, %		71.82	81.03	78.22	76.35	84.25	64.68	82.84	80.03	66.03	62.83	75.21	79.20	68.51	72.20	82.79	56.66	58.30	72.99
A DIG², %		24.35	1.17	0.69	0.94	3.07	0.67	0.49	1.24	0.80	0.17	1.21	1.86	1.48	0.41	4.55	0.75	1.47	1.06
SID³, %		82.01	88.78	80.33	78.90	85.47	67.15	83.73	83.47	73.20	70.47	78.44	82.98	73.33	75.20	84.76	84.20	118.31	79.40
S DIG⁴, %		27.80	1.28	0.71	0.97	3.11	0.69	0.50	1.29	0.89	0.19	1.27	1.95	1.58	0.43	4.66	1.11	2.98	1.16

	NDF, %	ADF, %	ADICP ⁵ , %	Mean particle size, µm	Soluble CP, %	Ash, %	Bulk density, lbs/ft3	pH
OTHER	26.90	10.28	3.62	228.99	25.57	5.00	27.73	4.00

¹ AID = Apparent Ileal Digestibility

² A DIG = Apparent Ileal Digestible CP & Amino Acids

³ SID = Standardized True Ileal Digestibility

⁴ S DIG = Standardized True Ileal Digestible CP & Amino Acids

⁵ ADICP = Acid Detergent Insoluble Crude Protein



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