

**MGP Ingredients Inc**  
**Pekin, Illinois**

**IOWA TESTING LAB REPORT NO:** 04-005308  
**DATE:** 7/27/2004  
**REC'D DATE:** 7/19/2004  
**METHOD:** AOAC; ICP; MOD/AOAC

**PROXIMATE ANALYSIS, CALCULATED DE, ME AND NE VALUES FOR SWINE, AND MINERAL AND AMINO ACID CONTENT OF DDGS.<sup>1</sup>**

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**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 <sup>2</sup> (kcal/kg)	Metabolizable Energy <sup>2</sup> (kcal/kg)	Net Energy <sup>3</sup> (kcal/kg)
88.80	30.12	8.96	9.34	7.77	7.30	45.84	53.61	20.95	84.93	3796	3560	1722

**Mineral Analysis:**

Calcium (%)	Phosphorus (%)	Potassium (%)	Magnesium (%)	Sulfur (%)	Sodium (%)	Chloride (%)	Zinc (ppm)	Manganese (ppm)	Copper (ppm)	Iron (ppm)
0.51	0.68	1.17	0.26	0.63	0.45	ND <sup>4</sup>	38	23	5	295

**Amino Acid Analysis:**

Arginine (%)	Histidine (%)	Isoleucine (%)	Leucine (%)	Lysine (%)	Methionine (%)	Cystine (%)	Phenylalanine (%)	Threonine (%)	Tryptophan (%)	Valine (%)
1.33	0.82	1.10	3.56	0.83	0.66	0.69	1.48	1.13	0.25	1.45

<sup>1</sup> Nutrient values expressed on 100% dry matter basis.

<sup>2</sup> 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).

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

<sup>4</sup> ND = not determined.



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