

**LINCOLNLAND AGRI-ENERGY LLC**  
**10406 N 1725TH ST**  
**PALESTINE IL 62451-**

**REPORT OF ANALYSIS**

For: (16742) LINCOLNLAND AGRI-ENERGY LLC  
 DDG  
 DISTILLER DRIED GRAIN

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: D1-20131203		Lab Number: 12189325					
Moisture (distillers grains)	10.8	//////	%	0.01	NFTA 2.2.2.5	kkw8-2013/12/05	jpt1-2013/12/06
Dry matter	89.20	//////	%	0.010	CALCULATION	Auto-2013/12/16	Auto-2013/12/16
Protein (crude)	27.6	30.9	%	0.20	AOAC 990.03 *	sss6-2013/12/05	jpt1-2013/12/06
Fat (crude)	8.55	9.58	%	0.10	AOAC 945.16 *	cmw4-2013/12/05	jpt1-2013/12/06
Fiber (acid detergent)	12.6	14.1	%	0.5	ANKOM Tech. Method *	sdh7-2013/12/06	jpt1-2013/12/06
Ash	4.98	5.58	%	0.10	AOAC 942.05 *	pgr4-2013/12/06	jpt1-2013/12/06
Starch (total)	2.10	2.35	%	0.10	AACC 76-11 (mod)	jsp2-2013/12/05	mjs5-2013/12/06
Total digestible nutrients	75.1	84.2	%	0.1	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Net energy (lactation)	0.78	0.88	Mcal/lbs	0.01	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Net energy (maint.)	0.82	0.92	Mcal/lbs	0.01	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Net energy (gain)	0.54	0.61	Mcal/lbs	0.01	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Digestible energy	1.50	1.68	Mcal/lbs	0.01	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Metabolizable energy	1.35	1.51	Mcal/lbs	0.01	CALCULATION	Auto-2013/12/06	Auto-2013/12/16
Sulfur (total)	0.71	0.80	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Phosphorus (total)	1.07	1.20	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Potassium (total)	1.38	1.55	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Magnesium (total)	0.33	0.37	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Calcium (total)	0.03	0.03	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Sodium (total)	0.22	0.25	%	0.01	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06

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<b>Sample ID: D1-20131203</b>	Lab Number: <b>12189325</b> (con't)						
Iron (total)	79.7	89.3	ppm	5.0	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Manganese (total)	21.2	23.8	ppm	1.0	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Copper (total)	7.9	8.9	ppm	1.0	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Zinc (total)	77.6	87.0	ppm	1.0	AOAC 985.01 (mod) *	trh1-2013/12/05	jpt1-2013/12/06
Aflatoxin B1	1.15		ppb	1.00	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16
Aflatoxin B2	n.d.		ppb	1.00	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16
Aflatoxin G1	n.d.		ppb	1.00	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16
Aflatoxin G2	n.d.		ppb	1.00	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16
Aflatoxin summation	1.15		ppb	1.00	CALCULATION	Auto-2013/12/15	Auto-2013/12/16
DON (Vomitoxin)	1.3		ppm	0.1	AOAC 2008.02 (mod)	ljk9-2013/12/09	tjp8-2013/12/09
Fumonisin B1	0.88		ppm	0.10	AOAC 2008.02 (mod)	slg7-2013/12/12	tjp8-2013/12/12
Fumonisin B2	0.22		ppm	0.10	AOAC 2008.02 (mod)	slg7-2013/12/12	tjp8-2013/12/12
Fumonisin B3	0.13		ppm	0.10	AOAC 2008.02 (mod)	slg7-2013/12/12	tjp8-2013/12/12
Fumonisin summation	1.23		ppm	0.10	CALCULATION	-2013/12/12	Auto-2013/12/16
Ochratoxin	n.d.		ppb	1.0	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16
T-2 toxin	n.d.		ppm	0.1	AOAC 2008.02 (mod)	ljk9-2013/12/10	tjp8-2013/12/10
Zearalenone	n.d.		ppb	50	AOAC 2008.02 (mod)	aln9-2013/12/15	tjp8-2013/12/16

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13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com**REPORT OF ANALYSIS****LINCOLNLAND AGRI-ENERGY LLC  
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PALESTINE IL 62451-**For: (16742) LINCOLNLAND AGRI-ENERGY LLC  
DDG  
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	As Received	Dry Weight		Limit	Method		

n.d. = not detected , ppm = parts per million, ppm = mg/kg , ppb = parts per billion Mineral analysis performed by ICAP using a wet digest procedure.

Moisture determined using 3hr@105 Deg. C Method.

Total starch value includes all hydrolyzable carbohydrates.

For questions please contact:

Heather Ramig  
Client Service Representative  
heather.ramig@midwestlabs.com (402)829-9891

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PALESTINE IL 62451-****REPORT OF ANALYSIS****For: (16742) LINCOLNLAND AGRI-ENERGY LLC  
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DISTILLER DRIED GRAIN****Detailed Method Description(s)****AOAC 990.03**

Analysis follows FE PROC 70 which is based on AOAC 990.03. The sample is placed in a combustion instrument and the amount of nitrogen is obtained. The nitrogen value is multiplied by a factor of 6.25 and that value reported as crude protein.

**AOAC 945.16**

Analysis follows FD PROC 26 which is based on AOAC 2003.05. The sample is extracted with drip immersion of the sample in petroleum (pet) ether. The pet ether is poured into a pre-weighed container and then evaporated. The container is re-weighed and the increase in weight is reported as crude fat

**ANKOM Tech. Method**

Analysis follows FD PROC 39 which is based on AOCS Ba 6a-05. The sample is sealed in a small bag and the bag immersed in a solution that dissolves certain materials. The bag is washed and dried and re-weighed. The material remaining in the bag is reported as acid detergent fiber

**AOAC 942.05**

Analysis follows FR PROC 19 which is based on AOAC 942.05. The sample is weighed and placed in a muffle furnace at 600 oC. After a period of time, the sample is removed and the remaining material weighed and reported as ash. Moisture and organic material is driven off.

**AOAC 985.01 (mod)**

Sample prep follows ME PROC 69 which is based on AOAC 935.13 (wet ash) and analysis follows PROC ME PROC 29 which is based on AOAC 985.01 (ICP). The sample is treated with a combination of heat and mineral acids to destroy organic materials and dissolve minerals. The extract is then introduced into the ICP (Inductively Coupled Argon Plasma Emission Spectrometer). In the ICP, an energized plasma is produced and as the energized plasma cools, light is emitted. Each element has a specific wavelength of light and the intensity of the light is used to quantitate the level of mineral in the sample.

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