

REPORT OF ANALYSIS
LINCOLNLAND AGRI-ENERGY LLC
10406 N 1725TH ST
PALESTINE IL 62451-
For: (16742) LINCOLNLAND AGRI-ENERGY LLC
DDGS
DISTILLER DRIED GRAIN

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: D1-20130226		Lab Number: 12228355					
Moisture (distillers grains)	11.2	//////	%	0.01	NFTA 2.2.2.5	ddd1-2014/02/28	jpt1-2014/03/04
Dry matter	88.80	//////	%	0.010	CALCULATION	Auto-2014/03/06	Auto-2014/03/06
Protein (crude)	28.2	31.8	%	0.20	AOAC 990.03 *	kfl0-2014/02/28	jpt1-2014/03/04
Fat (crude)	6.70	7.54	%	0.10	AOAC 945.16 *	kfl0-2014/02/28	jpt1-2014/03/04
Fiber (acid detergent)	12.4	14.0	%	0.5	ANKOM Tech. Method *	sdh7-2014/02/28	jpt1-2014/03/04
Ash	4.64	5.22	%	0.10	AOAC 942.05 *	pgr4-2014/03/03	jpt1-2014/03/04
Starch (total)	2.09	2.35	%	0.10	AACC 76-11 (mod) *	alm0-2014/02/28	mgn8-2014/03/03
Total digestible nutrients	73.1	82.3	%	0.1	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Net energy (lactation)	0.76	0.86	Mcal/lbs	0.01	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Net energy (maint.)	0.79	0.89	Mcal/lbs	0.01	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Net energy (gain)	0.53	0.60	Mcal/lbs	0.01	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Digestible energy	1.46	1.65	Mcal/lbs	0.01	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Metabolizable energy	1.31	1.48	Mcal/lbs	0.01	CALCULATION	Auto-2014/03/03	Auto-2014/03/06
Sulfur (total)	0.72	0.81	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Phosphorus (total)	1.08	1.22	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Potassium (total)	1.49	1.68	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Magnesium (total)	0.36	0.40	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Calcium (total)	0.03	0.03	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Sodium (total)	0.19	0.21	%	0.01	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04

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	As Received	Dry Weight		Limit	Method		
Sample ID: D1-20130226	Lab Number: 12228355 (con't)						
Iron (total)	83.2	93.7	ppm	5.0	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Manganese (total)	20.4	23.0	ppm	1.0	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Copper (total)	8.3	9.4	ppm	1.0	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Zinc (total)	81.5	91.8	ppm	1.0	MWL ME PROC 27 *	cvs7-2014/03/03	jpt1-2014/03/04
Aflatoxin B1	1.01		ppb	1.00	AOAC 2008.02 (mod) *	aln9-2014/03/04	tjp8-2014/03/04
Aflatoxin B2	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	aln9-2014/03/04	tjp8-2014/03/04
Aflatoxin G1	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	aln9-2014/03/04	tjp8-2014/03/04
Aflatoxin G2	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	aln9-2014/03/04	tjp8-2014/03/04
Aflatoxin summation	1.01		ppb	1.00	CALCULATION	Auto-2014/03/04	Auto-2014/03/06
DON (Vomitoxin)	0.8		ppm	0.1	AOAC 2008.02 (mod) *	ljk9-2014/03/04	tjp8-2014/03/04
Fumonisin B1	0.78		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/03/05	tjp8-2014/03/05
Fumonisin B2	0.20		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/03/05	tjp8-2014/03/05
Fumonisin B3	n.d.		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/03/05	tjp8-2014/03/05
Fumonisin summation	0.98		ppm	0.10	CALCULATION	Auto-2014/03/05	Auto-2014/03/06
Ochratoxin	n.d.		ppb	1.0	AOAC 2008.02 (mod) *	aln9-2014/03/04	tjp8-2014/03/04
T-2 toxin	n.d.		ppm	0.1	AOAC 2008.02 (mod) *	ljk9-2014/03/05	tjp8-2014/03/05
Zearalenone	n.d.		ppb	50	AOAC 2008.02 (mod) *	aln9-2014/03/06	tjp8-2014/03/06

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REPORT NUMBER

14-065-9044

REPORT DATE
Mar 06, 2014

RECEIVED DATE
Feb 27, 2014

SEND TO
16742



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www.midwestlabs.com

PAGE 3/5

ISSUE DATE
Mar 06, 2014

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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:

Lisa Avila
Staff
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www.midwestlabs.com**LINCOLNLAND AGRI-ENERGY LLC
10406 N 1725TH ST
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 MWL FD 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 MWL 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 MWL FD 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.

AACC 76-11 (mod)

Analysis follows WC PROC 47 which is based on modified AACC-76-11 and YSI Application Note 319. A sample is combined with water and placed in an autoclave. After the autoclave step, buffer and amyloglucosidase enzyme are added and the sample placed in a water bath where the starch is hydrolyzed to glucose. The glucose is then determined using a YSI glucometer.

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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 27 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, the sample is introduced into a plasma that energizes the atoms and as the plasma loses energy, light is emitted. Each mineral emits specific wavelength(s) and the wavelength and intensity of the light is used to identify and quantitate the mineral(s) in the sample.

AOAC 2008.02 (mod)

Analysis of mycotoxins is based on AOAC 2008.02 (modified). Samples are extracted using a polar extraction solvent and then filtration through immunoaffinity columns. The extract is analyzed by LC/MS or LC/MS/MS technology. The mycotoxins are determined by retention time, molecular weight, and molecular fragmentation ions.

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