

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

REPORT OF ANALYSIS

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: D1-20130421		Lab Number: 12255852					
Moisture (distillers grains)	13.4	//////	%	0.01	NFTA 2.2.2.5	ddd1-2014/04/23	jpt1-2014/04/24
Dry matter	86.60	//////	%	0.010	CALCULATION	Auto-2014/04/29	Auto-2014/04/29
Protein (crude)	26.5	30.6	%	0.20	AOAC 990.03 *	sss6-2014/04/23	jpt1-2014/04/24
Fat (crude)	7.10	8.20	%	0.10	AOAC 945.16 *	kfl0-2014/04/23	jpt1-2014/04/24
Fiber (acid detergent)	11.7	13.5	%	0.5	ANKOM Tech. Method *	pgr4-2014/04/23	jpt1-2014/04/24
Fiber (crude)	6.96	8.04	%	0.20	AOCS Ba 6a-05 *	pgr4-2014/04/23	jpt1-2014/04/24
Fiber (neutral detergent)	25.5	29.4	%	1.0	ANKOM Tech. Method *	pgr4-2014/04/23	jpt1-2014/04/24
Ash	5.44	6.28	%	0.10	AOAC 942.05 *	vrn7-2014/04/24	jpt1-2014/04/24
Hunter color L value	60.6		L Value	1.0	HUNTER COLOR	ddd1-2014/04/23	jpt1-2014/04/24
Total digestible nutrients	71.4	82.4	%	0.1	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Net energy (lactation)	0.74	0.86	Mcal/lbs	0.01	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Net energy (maint.)	0.77	0.89	Mcal/lbs	0.01	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Net energy (gain)	0.52	0.60	Mcal/lbs	0.01	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Digestible energy	1.43	1.65	Mcal/lbs	0.01	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Metabolizable energy	1.28	1.48	Mcal/lbs	0.01	CALCULATION	Auto-2014/04/24	Auto-2014/04/29
Sulfur (total)	0.64	0.74	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Phosphorus (total)	1.00	1.15	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Potassium (total)	1.26	1.45	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Magnesium (total)	0.32	0.37	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24

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Sample ID: D1-20130421	Lab Number: 12255852 (con't)						
Calcium (total)	0.04	0.05	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Sodium (total)	0.24	0.28	%	0.01	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Iron (total)	89.8	104	ppm	5.0	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Manganese (total)	17.9	20.7	ppm	1.0	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Copper (total)	8.0	9.2	ppm	1.0	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Zinc (total)	73.2	84.5	ppm	1.0	MWL ME PROC 29 *	cvs7-2014/04/23	jpt1-2014/04/24
Aflatoxin B1	1.38		ppb	1.00	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Aflatoxin B2	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Aflatoxin G1	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Aflatoxin G2	n.d.		ppb	1.00	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Aflatoxin summation	1.38		ppb	1.00	CALCULATION	Auto-2014/04/25	Auto-2014/04/29
DON (Vomitoxin)	0.6		ppm	0.1	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Fumonisin B1	0.56		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/04/25	tjp8-2014/04/25
Fumonisin B2	0.17		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/04/25	tjp8-2014/04/25
Fumonisin B3	n.d.		ppm	0.10	AOAC 2008.02 (mod) *	jcp7-2014/04/25	tjp8-2014/04/25
Fumonisin summation	0.73		ppm	0.10	CALCULATION	Auto-2014/04/25	Auto-2014/04/29
Ochratoxin	n.d.		ppb	1.0	AOAC 2008.02 (mod) *	ljk9-2014/04/29	tjp8-2014/04/29
T-2 toxin	n.d.		ppm	0.1	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25
Zearalenone	n.d.		ppb	50	AOAC 2008.02 (mod) *	ljk9-2014/04/25	tjp8-2014/04/25

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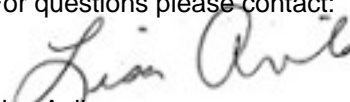
Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: D1-20130421	Lab Number: 12255852 (con't)						
Starch (total)	1.94	2.24	%	0.10	AACC 76-11 (mod) *	alm0-2014/04/23	mgn8-2014/04/24

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
lisa.avila@midwestlabs.com (402)829-9847

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13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
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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

AOCS Ba 6a-05

Analysis follows FD PROC 23 which is based on AOCS Ba6a-05. A small amount of sample is weighed and placed in a membrane bag and sealed. The bag and sample are placed in a container that treats the sample with a variety of chemicals to dissolve materials which leach out of the bag. After repeated washing and rinsing, the bag is dried and reweighed. The material remaining in the bag is reported as crude 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.

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ICP Analysis feeds AOAC 985.01 (mod)

Analysis follows MWL ME PROC 29 which is based on AOAC 985.01. Samples have been prepared using MWL ME PROC 69 which is a wet ash procedure that requires mineral acids and heat. Sample analysis involves moving the sample extract into the ICP where it is nebulized and introduced into the high temperature plasma which energizes the electrons of the dissolved minerals/metals. As the energized electrons of the minerals/metals return to ground state, energy is released as light. The emitted wavelength(s) and light intensities are used to identify and quantitate the minerals/metals in the sample

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.

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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