



CUMBERLAND VALLEY ANALYTICAL SERVICES

" Laboratory services for agriculture ... from the field to the feed bunk "

Type: Misc-unknown
Farm: HANDY
Desc: ROASTED SOYEX MEAL #123
CLARK FARM PRODUCTS
CLARK FARM PRODUCTS

Copies to: HANDY, DEAN

Lab ID: 28994 056
Sampled:
Arrived: 08/19/2020
Completed: 08/27/2020
Reported: 08/27/2020

Regression: OH

ROASTED SOYEX MEAL #123

SAMPLE INFORMATION

Lab ID: 28994 056 Series:
Crop Year: 2020 Version: 1.0
Cutting#:
Feed Type: Misc-unknown

CHEMISTRY ANALYSIS RESULTS

Moisture 2.9
Dry Matter 97.1
PROTEINS % SP % CP % DM
Crude Protein 44.6
Adjusted Protein 44.6
Soluble Protein 9.2 4.1
Ammonia (CPE)
ADF Protein (ADICP) 1.1 0.47
NDF Protein (NDICP) 28.3 12.63
NDR Protein (NDRCP)
Rumen Degr. Protein

FIBER % NDF % DM
ADF 25.6 6.5
aNDF 25.3
aNDFom
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 4.54 1.15
NDF Digestibility (12 hr)
NDF Digestibility (24 hr)
NDF Digestibility (30 hr)
NDF Digestibility (72 hr)
NDF Digestibility (240 hr)
uNDF (30 hr)
uNDF (240 hr)

CARBOHYDRATES % Starch % NFC % DM
Silage Acids
Ethanol Soluble CHO (ESC-Sugar)
Water Soluble CHO (WSC-Sugar)
Starch
Soluble Starch
Soluble Fiber
Starch Digestibility (7 hr)
Crude Fat 13.30
Fatty Acids, Total (%DM)
Acid Hydrolysis Fat

MINERALS

Ash (%DM) 5.44
Calcium (%DM) 0.29
Phosphorus (%DM) 0.50
Magnesium (%DM) 0.25
Potassium (%DM) 1.88
Sulfur (%DM)
Sodium (%DM) 0.01
Chloride (%DM)
Iron (PPM) 100
Manganese (PPM) 24
Zinc (PPM) 49
Copper (PPM) 15
Molybdenum (PPM)

FERMENTATION

pH
Total VFA
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Propionic Acid (%DM)
Butyric Acid (%DM)
Isobutyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)

ENERGY & INDEX CALCULATIONS

TDN (%DM) 95.1
Net Energy Lactation (Mcal/lb) 1.00
Net Energy Maintenance (Mcal/lb) 1.21
Net Energy Gain (Mcal/lb) 0.86
ME (Mcal/lb) 1.72
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)
Relative Feed Value (RFV)
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
Non Fiber Carbohydrates (%DM) 24.03
Non Structural Carbohydrates (%DM)
DCAD (meq/100gdm)

Additional sample information, submitted documents and lab pictures linked to QR code



Cumberland Valley Analytical Services, Inc.

4999 Zane A. Miller Drive, Waynesboro, PA 17268
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Additional Memo

NOTE:

Degradable Protein(Strep. griseus)= 33.6% of Crude Protein.

Undegradable Protein = 66.4% of Crude Protein.

Urease = .05



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GRAIN SAMPLE DATA



SAMPLE #123

BY-SILAS

7/2/20

NOTES:

PLC CONTROL, DUAL HEAT ZONES

MACHINE SETUP DATA			
MODEL#	1040		
INCLINE ANGLE	25		
MOTOR RPM	63		
DRIVE TEETH	20		
DRIVEN TEETH	40		
AUGER RPM	31.5	CALCULATED	
AUGER TYPE	SOYEX W/WIRE		
AUGER END TYPE	FULL FLIGHT		
HOPPER	VERSION 2, SHAKER		
AMBIENT TEMP	80	DEGREE F	
OVEN SET TEMP	470	DEGREE F	
ROAST TIME		MINUTES	
PRE ROAST DATA			
GRAIN TYPE	SOYEX- FROM PRESS CATCH HOPPER		
% MOISTURE			
TEST WEIGHT			
GRAIN TEMP AT ENTRY	100-110	DEREE F	
ROLLER MILL TYPE			
ROLL GAP		INCHES	
MOTOR SPROCKET SIZE			
ROLL SPROCKET SIZES			
POST ROAST DATA			
ROLLER MILL TYPE			
ROLL GAP		INCHES	
GRAIN TEMP AT EXIT	310-330	DEGREE F	
% MOISTURE			
TEST WEIGHT			
LBS. PER HR	80		
STEEP TIME		MINUTES	
HIGHEST TEMP @30MIN		DEGREE F	
SAMPLE TAKEN DIRECTLY FROM EXIT			