



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Type: 48% SOYBEAN MEAL
Farm: SHEPPARD GRAIN
Desc: HI PRO 48% ORGANIC MEAL
ATKINSON TIM
SHEPPARD GRAIN, INC.

Copies to: SHEPPARD, STEVE
Regression: OH

Lab ID: 20467 041
Sampled: 07/29/2016
Arrived: 08/02/2016
Completed: 08/25/2016
Reported: 08/25/2016

HI PRO 48% ORGANIC MEAL

SAMPLE INFORMATION

Lab ID: 20467 041 Series:
Crop Year: 2016 Version: 1.0
Cutting#:
Feed Type: 48% SOYBEAN MEAL

CHEMISTRY ANALYSIS RESULTS

Moisture 4.4
Dry Matter 95.6

PROTEINS

	% SP	% CP	% DM
Crude Protein			49.2
Adjusted Protein			
Soluble Protein			
Ammonia			
ADF Protein (ADICP)			
NDF Protein (NDICP)			
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF		
aNDF		
aNDFom		
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		6.0
Lignin		
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)			
Water soluble CHO (Sugar)			
Starch			
Soluble Fiber			
Starch Digestibility (7 hr)			
Fatty Acids, Total (%DM)			
Crude Fat			6.93
Acid Hydrolysis Fat			

Definitions and explanation of report terms



Additional sample information, source and lab pictures



MINERALS

Ash (%DM)
Calcium (%DM)
Phosphorus (%DM)
Magnesium (%DM)
Potassium (%DM)
Sulfur (%DM)
Sodium (%DM)
Chloride (%DM)
Iron (PPM)
Manganese (PPM)
Zinc (PPM)
Copper (PPM)
Molybdenum (PPM)
Selenium (PPM)
Nitrate Ion (%DM)

FERMENTATION

pH
Total VFA
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Propionic Acid (%DM)
Butyric Acid (%DM)
Isobutyric Acid (%DM)
Titratable Acidity (meq/100gm)
1, 2 Propanediol (%DM)

ENERGY & INDEX CALCULATIONS

TDN (%DM)
Net Energy Lactation (mcal/lb)
Schwab/Shaver NEL (Processed)
Schwab/Shaver NEL (Unprocessed)
Net Energy Maintenance (mcal/lb)
Net Energy Gain (mcal/lb)
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)
Relative Feed Value (RFV)
Relative Feed Quality (RFQ)
Milk per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
Non Fiber Carbohydrates (%DM) 43.9
Non Structural Carbohydrates (%DM)
DCAD (meq/100gdm)



Powered by Cumberland Valley Analytical Services





CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: SHEPPARD GRAIN
Desc: HI PRO 48% ORGANIC MEAL
Submitter: ATKINSON, TIM
Account: SHEPPARD GRAIN, INC.

Copies to: SHEPPARD, STEVE

Lab ID: 20467 041
Sampled: 07/29/2016
Arrived: 08/02/2016
Completed: 08/25/2016
Reported: 08/25/2016

Additional Memo

Rumen undegradable CP was determined using the 16 hr insitu method. Three cows were used and samples were duplicated within cow. The sample was ground through a Wiley mill using a 4mm screen.

Rumen undegradable Dry matter= 29.1% of DM

Rumen undegradable CP= 42.4% of CP



Powered by Cumberland Valley Analytical Services



14515 Industry Drive, Hagerstown, MD 21742
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

