Cumberland Valley Analytical Services

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CVAS

Sample Submittal Form

v.m1.0.0

CALIBRATE®

CVAS Account Information

		Reporting Method(s):	
Account #			
Name			
Street / PO Box			
City			Fax
State, Zip			
Phone/Fax			Email
Email			Internet

Calibrate® Contract Holder

Name	
Herd	
Calibrate #	
Email	
Email Copy 1	
Email Copy 2	

Lab #	Bag #	*Ingredient Type	Description	Alfalfa Only Cutting & Days since last cut	Year	Date Samp.	Testing Codes						
	1												
	2												
	3												
	4												
	5												

Package Codes

NIR
A1 - NIR 1
A2 - NIR 2
A3 - NIR 3
A4 - NIR 4
A5 - NIR 5

NIR Options
(add to NIR code)
P - Plus Option
C - CPM Option
APN - Apparent Nutrient
    Digestibility
SS - Soluble Starch
K1 - Calibrate®

Wet Chemistry
B1 - Standard
B2- CPM Plus
B3 - RFV
B4 - Basic/NDF
B6 - Minerals Only
B7 - TMR Diagnostic
B8 - Animal Protein
B9 - Standard & Energy
B10 - Liquid Sample

Invitro Digestibility
C1 -   6 Hr NDF
C2 -   12 Hr NDF
C3 -   24 Hr NDF
C4 -   30 Hr NDF
C5 -   48 Hr NDF
C6 -   96 Hr NDF
C7 -   120 Hr NDF
C8 -   2 Hr DMD
C9 -   240 Hr NDF
C10 -   Basic RPE Forages
C10a - Basic RPE Concentrate
C11 -   Standard RPE Forage
C11a - Standard RPE Concentrate

Option Codes

Proximate
E1 - TAG 1
E2 - TAG 2
E3 - TAG 3
E4 - TAG 4
E5 - Protein Only
E6 - Moisture Only
E7 - Crude Fat
E8 - Acid Hyd. Fat
E9 - Crude Fiber
E11 - Karl Fischer Moisture
E12 - Micron Size

Options
F1 - Fermentation
F1a - Ferm Plus
F3 - Fatty Acid Profile 30 m
F3a - FA 100 m with trans
F3b - Milk fatty acid 100 m
F4 - Free Fatty Acids
F5 - Heavy Metals
F7 - Byproduct
F8 - Mold Count
F9 - Mold ID
F10 - DCAD (CL, S)
F11 - CSPS
F12 - PENDF
F13 - Particle Size
      (Penn State)

Components
G1 - ADF
G2 - ADFom (ash free)
G3 - ADF-CP
G5 - Ammonia
G6 - Ash
G7 - Chloride
G8 - Protein
G9 - Deg. Protein
G11 - Equine Energy
G13 - Fecal Starch
G14 - Lignin
G15 - Molybdenum
G16 - aNDF
G17 - aNDFom (ash-free)

G18 - NDF-CP
G19 - NDR
G20 - Nitrate
G21 - NPN
G22 - PDI/Urease/KOH
G23 - PDI/Urease
G24 - Selenium
G25 - Soluble Protein
G26 - Starch
G27 - Sugar ESC
G27a - Sugar WSC
G28 - Sulfur
G29 - Urease Activity
G30 - Soluble Starch

*Ingredient Type
For Calibrate® High Quality Forage analysis, please record
appropriate name from the list below.
Alfalfa Hay
Alfalfa Hay Freshcut
Alfalfa Haylage
Mixed Hay
Mixed Silage
Mixed Freshcut

Starch Digestibility
D1 -   2 Hr Starch
D2 -   7 Hr Starch
D3 -   24 Hr Starch
D4 -   30 Hr Starch
D5 -   4 Hr Starch
D6 -   12 Hr Starch
D7 - Starch 6 Time Point

Protien Digestibility
P1 - MSPE

Insitu
I1 - Protein (RUP)
I2 - Starch
I3 - aNDF
I4 - DM

Mycotoxins
T1 -   Basic Panel LC/MS
T1a -   Plus Panel LC/MS
T1b -   Premier Panel LC/MS
T2 - Aflatoxin
T3 - Fumonisin
T4 - Ochratoxin
T5 - T2 by LC/MS
T6 - HT2 by LC/MS
T7 - Vomitoxin (Don)
T8 - Zearalenone

AA Options
H1 -   CML + 9
H2 -   Full Profile w/o Tryptophan
H3 -   Full Profile w/ Tryptophan

Plant Tissue
L1 - Standard PT
L2 - Additional Trace Min
L3 - Boron
L4 - Carbon
L5 - Nitrate
L6 - Sulfur

Filling Out Calibrate® Sample Submittal Forms for CVAS

At the top of the form, fill in Calibrate information. Complete the CVAS account information if additional CVAS testing is requested.

Record Ingredient ID for each sample (use additional forms if submitting more then 5 samples at a time).
   o Note requirement for specific alfalfa name.
   o For other sample types, ask your salesperson for the list of Calibrate® ingredient types.

Record information as desired in Description field to identify your sample.
   o Include HarvXtra® or variety if known

Record K1 as the testing code. This code is valid for all Calibrate® testing options
   o High Quality Forage Analysis for Alfalfa: NDF, FPN, NDFd, Protein, Ash, TDN, RFQ, RFV
   o Calibrate testing (non-alfalfa): Starch, GPN, and NDF, FPN (dependent on sample type)

Record additional CVAS testing codes if desired.
   o All non-Calibrate tests are billed thru CVAS and are not part of any Calibrate contracts.

Ensure bags are labeled to correspond to the submittal form.

Place the sample submission form(s) in the box with the samples.

Note:
If contracted with FGI, Calibrate® testing is pre-paid. Contracted customers will receive pre-printed submission forms with a Calibrate account number to use for submission to CVAS. If not contracted, samples will be billed thru CVAS.

Sampling Protocols

Hay

- Identify a hay lot as consisting of a single cutting, from a single farm and field.

- Use a sharp hay probe (3/8 to 3/4" diameter), capable of multiple samples to a depth of 12-14".

- Take single-core samples from 10 medium (1/2 ton) or large (1 ton) bales. For smaller bales, take single-core samples from 20 bales and composite. In both cases, select bales randomly.

- Center the sampling probe 90 degrees to butt end of square bales and curved side of round bales.

- Obtain 1/2 to 1 lb. of sample.

- Seal the entire sample in a quart-size zip-lock bag. Label the bag with a complete sample description. Protect from heat and sun.

- Fill out sample submission form completely.

Silage

- Collect 3 to 5 hand grab samples off the pile scraped or shaved from the bunker face. Be careful not to lose small particles from each grab sample (use hand as a scoop; do not grab with the hand facing down).

- Obtain 1 to 2 lbs. of sample.

- Seal the entire sample in a quart-size zip-lock bag. Label the bag with a complete sample description. Protect from heat and sun.

- Fill out sample submission form completely.

- Fermented samples can be frozen, but fresh samples should only be refrigerated, prior to shipping

- If more subsamples are desired, place them in a bucket and mix by rotating the bucket like a cement mixer. Dump the entire contents on a clean surface, and divide the pile into 4 quarters. Discard two of the diagonal quarters, and place the remaining quarters back into the bucket. Continue mixing and quartering until you have a 1 to 2 lbs. sample.