



South Dakota Agricultural Laboratories
 1006 32nd Avenue Suite 105
 Brookings, SD 57006

Fax 605-692-7326

Feed Sample Submission Form

Use one copy of this page for each sample.

Bill: Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ Email: _____	Copy: Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ Email: _____
Customer Sample Identification: _____	Date Collected: _____

Feed and Forages

Analysis Requested

Sample Preparation (required for all samples)

Amino Acids

- Standard hydrolysis profile
- Standard pre-oxidation hydrolysis profile
- Lysine
- Cystine (Cys) and Methionine (Met)
- Typtophan (Trp)
- Ammonia
- Ash, total
- Ash, Acid insoluble
- Chloride
- Digestible Dry Matter (DDM), includes ADF
- Dry Matter Intake (DMI), includes NDF

Drugs in feeds

Note: State level of drug, if it is known. If requesting tylosin, state if feed contains urea. If requesting lasalocid, state if feed has high mineral content.

Circle drug(s): Amprolium, Arsanilic acid, Bacitracin, Carbadox, Chlortetracycline, Decoquinatate, Fenbendazole, Lasalocid, Linomycin, Monensin, Neomycin, Nitrofurazone, Ormetoprin, Oxytetracycline, Piperazine, Pyrantel tartrate, Sulfadimethoxine, Sulfamethazine, Sulfathiazole, Tylosin

Fat

- Fat ,crude(ether extract)
- Fat, acid hydrolysis (Mojonnier)
- Fat, base hydrolysis (Roese-Gottlieb)
- Oilseed, double extraction
- Oilseed, triple extraction

Fatty acid profile

First sample, \$65.00. Each additional sample, \$55.00

Fiber

- Crude Fiber
- Acid Detergent Fiber (ADF)
- Neutral Detergent Fiber (NDF)
- Lignin-Sulfuric acid 72% H₂SO₄ (includes ADF)
- Lignin,Permanganate (includes ADF)
- Iodine,iodide
- Lactose
- Mercury

Minerals by flame A.A.

Circle Mineral(s): Calcium(Ca), Copper(Cu), Iron(Fe), Magnesium(Mg), Manganese(Mn), Phosphorus(P), Potassium(K), Sodium(Na), Zinc(Zn),

Energy values, calculated

- _NE_G, NEM, NE_L, forages (based on ADF), includes ADF
- _ME Swine diets (includes protein, (ADF)
- _TDN forages and some grains (based on ADF), includes ADF (cattle only)
- _TDN (based on proximate), includes proximate (cattle only)
- _TDN (based on Ohio equation) includes protein, ADF, NDF, ash, fat, lignin, NDIN

Moisture

- _Oven Moisture
- _Karl Fischer

Mycotoxins

- _Mycotoxin screen, grains and feeds
- _Mycotoxin screen, forages
- _Neutral detergent insoluble nitrogen (NDIN)
- _Neutral detergent insoluble crude protein (NDICP)

Nitrates

- _Nitrogen-free extract (includes moisture, ash, protein, fat, crude fiber)

Nitrogen

- _Combustion
- _Salicylic acid
- _Non-protein nitrogen (NPN), (urea and ammonia)
- _Particle length (forages, TMR)
- _Particle size (feeds)
- _PH silage
- _Polyphenol oxidase PPO (wheat)-1-6 samples

Minerals (elements) by furnace A.A.

Circle Mineral(s): Arsenic(As), Cadmium(Cd), Chromium(Cr), Cobalt(Co), Lead(Pb), Molybdenum(Mo)

- _Minerals ICP Feed Screen

Protein

- _Combustion
- _Kjeldahl
- _Protein, heat damaged (for forages only) (includes protein, ADF, ADIN)
- _Proximate (includes moisture, ash, protein, fat, crude fiber, nitrogen-free extract)
- _Prussic acid (sorghums, sudan, cane, milo, flax, some wheat types)

Relative feed value (includes ADF, NDF, DDM, DMI)

- _Chemical methods
- _NIRS (see Near Infrared Reflectance Spectroscopy)
- Salt based on total sodium (see Minerals)
- Salt based on chloride (see Chloride)
- _Selenium

Starch

- _Sulfur
- _Sugar, total invert
- TDN, see Energy
- _Urea
- _Urease activity (soybeans)

Vitamin A

- Vitamin A HPLC
- _Vitamin D
- _Vitamin E