

Forage and Ingredient Packages

2025

A photograph of a brown and white cow standing in a lush green field. In the background, there is a large red barn with a grey silo on the left. The scene is brightly lit, suggesting a sunny day.

SGS

Forages and TMR

All Analysis by Wet Chemistry

Excel Basic

DM, CP, ADF, NDF,
Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn,
Starch by NIR included, only for TMR+corn silage.
Calculations: TDN, NEL, NEG, NEM, RFV.

NCPS

Feeds and Forages:
DM, CP, SP, ADF, ADF-CP, NDF, NDF-CP, lignin, fat, ash, starch,
Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn.
Calculations: TDN, NEL, NEG, NEM, NFC, UIP(est.), RFV, OARDC
energy calculations (where available)

Ingredients and Finished Feed Packages

All Analysis by Wet Chemistry

Forage Mineral I (added to NIR pkgs)

Ca, P, K, Mg, Na
(pricing available with an NIR package)

Forage Mineral II (added to NIR pkgs)

Ca, P, Mg, K, S, Na, Cl, Cu, Zn, Mn, Fe
(pricing available with an NIR package)

Package I

DM, CP

Package II

DM, CP
Ca, P, K, Mg, Na

Package III

Type II plus
Zn, Mn, Cu, Fe

Package IV

Type II plus ADF, NEL, TDN

Package V

DM, CP
Ca, P, Na

Swine ME

DM, CP, fat, ash, crude fibre, Ca, P, K, Mg, Na
Calculations: metabolizable energy

Poultry ME

DM, CP, fat, starch, total sugar, Ca, P, K, Mg, Na
Calculations: metabolizable energy

Forages and TMR by NIR

NIR Analysis - Minerals by Wet Chemistry

Equine Complete

By NIR: CP, SP, ADF, ADF-CP, NDF, NDF-CP, lignin, ash,
fat, starch, total sugars (WSC), simple sugars (ESC).
By Wet Chemistry: DM, Ca, P, K, Na, Mg, Cu, Fe, Mn, Zn.
Calculations: NFC, TDN and DE for horses.

Forages and TMR

All Analysis NIR - Minerals by NIR

NIR Standard

DM, CP, SP, ADF, ADF-CP, NDF, NDF-CP, NDFd 24, 30, 48,
lignin, ash, fat, starch, sugar (WSC),
Ca, P, K, Mg, Na, S, Cl.
Calculations: UIP, NFC, TDN, NEL, NEG, NEM, RFV, DCAB

NIR Complete

DM, CP, SP, ADF, ADF-CP, NDF, NDF-CP, NDFd 24, 30,
48; uNDF 120, 240; 7hr SCHd (CS); lignin, ash, fat, starch,
sugar (WSC), ESC, VFA and ammonia,
Ca, P, K, Mg, Na, S, Cl,
Calculations: TDN, NEL, NEG, NEM, RFV, Milk per tonne,
Beef per tonne. NDF disappearance rate (kd, Mertens), DCAB

NIR CNCPS/NASEM

DM, CP, SP, ADF, ADF-CP, NDF, NDF-CP, lignin, ash, fat,
starch, sugar (WSC), ESC, NDFd 24, 30, 48; uNDF
120,240; 7hr SCHd (CS); total fatty acids, C16:0, C18:0,
C18:1, C18:2, C18:3; VFA and ammonia
Ca, P, K, Mg, Na, Cl, S;
Calculations: TDN, NEL, NEG, NEM, RFV; Milk per tonne,
Beef per tonne, UIP, NFC, DCAB, pH (ensiled forages).
NDF disappearance rate (kd, Mertens)

NIR TMR

DM, CP, SP, ADF, ADF-CP, NDF, NDF-CP, lignin,
starch, fat, ash,
Ca, P, K, Mg, Na,
UIP as %CP,
Calculations: TDN, NEL, NEG, NEM

NIR Corn (HMC, CCM, GC)

DM, CP, ADF, ADF-CP (HMC), NDF, lignin (HMC),
starch, fat, ash, 7h SCHd (HMC),
Ca, P, K, Mg.
Calculations: NFC, TDN, NEL, NEG, NEM)

Rapid Scissors Cut

DM, CP, ADF, NDF
Calculator: RFV

Submission forms and sample containers are available upon request.

HMC = High Moisture Corn

CCM = Corn Cob Meal

GC = Grain Corn

Prices subject to applicable taxes and may be changed without notice. Prices effective January 2025. Rates are in Canadian funds.

All SGS services are rendered in accordance with the applicable SGS general conditions of service accessible at http://www.sgs.com/en/terms_and_conditions

Wet Chemistry Options

(If no package is selected, a \$14.20 base fee may apply)

ADF-CP
NDF-CP
Soluble protein
Undegradable intake protein
Acid Detergent Fibre
Neutral Detergent Fibre
Crude Fat
Crude Fibre
Lignin
pH
Sulphur
Sulphur and Chloride
Salt
Ash
Starch (Enzymatic)
Molybdenum
Nitrate-Nitrogen (NO₃-N-Nitrates)
Ammonia-Nitrogen (NH₃-N-Ammonia)
Water soluble carbohydrates (WSC-Total sugars)
Ethanol soluble carbohydrates (ESC-Simple sugars)
Corn Silage Processing Score

Livestock Water

Mineral Analysis

pH, EC (total salts), nitrate-nitrogen, phosphorus, potassium, magnesium, calcium, sodium, zinc, manganese, copper, iron, boron, chloride, sulphate, bicarbonate, total dissolved solids, total hardness

Minimum sample size: 300 ml

Samples in a microbiological bottle cannot be used for mineral analysis

Samples for human consumption will not be analysed based on the Ontario Safe Drinking Water Act 2002

Manure Analysis

Liquid

Dry matter, nitrogen, phosphorus, potassium, total salt (EC), ammonia-N

Dry

Dry matter, nitrogen, phosphorus, potassium, ammonia-N

Fecal Starch

Options

(If no package is selected, a \$14.20 base fee may apply)

pH
Calcium and Magnesium
Zinc, Manganese, Copper, Iron
Sulphur
Carbon/Nitrogen Ratio

Toxin Screens

Vomitoxin
Zearalenone
T-2
Aflatoxin

Submission forms and sample containers are available upon request.

Contact details:

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