Forage and Ingredient Packages

2024



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

Mineral I

Ca, P, K, Mg, Na

(pricing available with an NIR package)

Mineral II

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

Submission forms and sample containers are available upon request.

HMC = High Moisture Corn

CCM = Corn Cob Meal

GC = Grain Corn

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 Calculaton: RFV

Wet Chemistry Options

(If no package is selected, a prep fee will apply)

ADF-CP

NDF-CP

Soluble protein

Undegradable intake protein

Acid Detergent Fibre

Neutral Detergent Fibre

Crude Fat

Crude Fibre

Lignin

рΗ

Sulphur

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 prep fee will apply)

рΗ

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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