SGS AGRI-FOOD LABORATORIES 2011

AGRI-FOOD LABORATORIES IS NOW PART OF SGS,
THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY

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FEED AND FORAGE PACKAGES

WET CHEMISTRY PACKAGES

Type I
Moisture, crude protein

Type II
Moisture, crude protein, calcium, phosphorus, Ca/P ratio, potassium, magnesium sodium

Type III
Type II plus copper, zinc, manganese

Type IV
Type II plus acid detergent fibre, net energy lactation, total digestible nutrients

Type V
Moisture, crude protein, calcium, phosphorus, Ca/P ratio, sodium

Swine ME
Type II plus fat, ash, crude fibre, metabolizable energy

Poultry ME
Type II plus fat, starch, total sugar, metabolizable energy

NCPS—Non-Forages
DM, CP, Ca, P, K, Mg, Na, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch

Calculations for: TDN, NEL, NEG, NEM, NFC, UIP (est.), RFV, OARDC energy calculations.

AFL Excel Basic
DM, CP, ADF, NDF, Ca, P, K, Mg, Na, TDN, NEL

AFL Excel Plus
DM, CP, SP, UIP, ADF, NDF, Ca, P, K, Mg, Na, TDN, NEL

NIR FORAGE PACKAGES

NW40
Crude protein, moisture, soluble protein, ADF-CP, degradable protein (est.), acid detergent fibre, neutral detergent fibre, total digestible nutrients, net energy lactation, net energy gain, net energy maintenance, relative feed value, non-fibre carbohydrates, starch, lignin

By Wet Chemistry: Dry matter, calcium, phosphorus, potassium, magnesium, sodium

OARDC energy calculations

NW41
NW40 with copper, zinc and manganese, Iron by wet chemistry

NIR 20
NW40 with all results by NIR

NIR 40
Fermented forages only

CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch, 24 hr and 48 hr NDF digestibility (for haylage and corn silage) (RFQ where applicable), calcium, phosphorus, potassium, magnesium, pH, digestibility rate, potentially digestible NDF with all the results by NIR

Milk 2006
Similar to NCPS Forage. All results using NIR.

Package includes NDFD (48hr) as well as calculated milk per tonne and milk per acre.

Rapid Scissor Cuts
DM, by NIR: CP, ADF, NDF, RFV

Quick turnaround results to evaluate forage stand quality.

Options
(If no base package is selected, a $10 base fee will apply)

Starch (NIR)

24 hr or 48 hr NDF Digestibility (forages only)

ADDITIONAL FORAGE PACKAGES

AFL Excel Dry Cow
Forages only

By NIR: crude protein, soluble protein, ADF-CP, degradable protein (est.), acid detergent fibre, neutral detergent fibre, lignin, total digestible nutrients, net energy lactation, non-fibre carbohydrates, relative feed value.

By Wet Chemistry: dry matter, calcium, phosphorus, potassium, magnesium, sodium, chloride, sulfur, pH, dietary cationic-anionic balance index

CPM
Fermented forages only

By NIR: CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch, 24 hr and 48 hr NDF digestibility (for haylage and corn silage) (RFQ where applicable) Potentially digestible NDF

By Wet Chemistry: dry matter, calcium, phosphorus, potassium, magnesium, sodium, copper, zinc, manganese, pH, digestibility rate

NCPS—Forages
By NIR: CP, SP, ADF-CP, ADF, NDF, lignin, NDF-CP, fat, ash, starch

By wet chemistry: DM, Ca, P, K, Mg, Na

Calculations for: TDN, NEL, NEG, NEM, NFC, UIP (est.), RFV, OARDC energy calculations. MEASURE

Equine DE
NW41 plus total digestible nutrients and digestible energy for horses

Equine Complete
NW41 plus fat, NDF-CP, ash, starch, sugar, total digestible nutrients and digestible energy for horses.

PHYSICAL TESTING

Penn State Particle Size
For TMR, corn silage, haylage

Physically Effective NDF
By Penn State Particle Separator (Lammers 1996)

Calculated from physically effective factor which has been determined as the sum of the dry matter retained on two sieves of the Penn State particle Separator (for forages) or as the sum of dry matter retained in two sieves of PSPS plus dry matter retained on 1.18mm screen (TMR).

Options
(If no base package is selected, a $10 base fee will apply)
Degradable Protein or UI
ADF-CP
NDF-CP
Soluble Protein
Acid Detergent Fibre
Neutral Detergent Fibre
Crude Fat
Crude Fibre
Iron
Lignin
pH
Sulphur
Salt
Sodium
Starch (Enzymatic)
Molybdenum
Nitrate Nitrogen (Nitrates)
Metabolizable Energy*
(for swine or poultry)

Corn Silage Processing Score
Percentage of total starch that passes through a 4.75 mm screen

*All required tests for this calculation must be selected before the option can be selected.

Supplies and Forms
If you require sample containers or submission forms, please contact the laboratory.

Our submission forms are also available in a writable PDF format on our website.