

# Services/Analysis

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**Sending multiple samples? Project work? Looking for a specific package? Contact us for a quote!**

Please add 5% GST to all packages. Click [here](#) for sample sizes.

### WATER Packages

1W	General Water Quality - Ca, K, Mg, Na, Cu, Fe, Mn, Zn, Sulfate, Electrical Conductivity, pH, Nitrates, Chlorides / Calculations: Total Hardness, TDS	67.00
2W-MF	Basic Potability by Membrane Filtration, Nitrates - Fecal Coliforms, Total Coliform, Nitrates (Total NO3) / Calculations: Potability	65.00
2W-QT	Basic Potability by Enzyme Substrate, Nitrates - E.coli (Escherichia coli), TOTAL COLIFORM, Nitrates (Total NO3) / Calculations: Potability	50.00
EC/TC-QT	Basic Potability by Enzyme Substrate - E.coli (Escherichia coli), TOTAL COLIFORM / Calculations: Potability	43.00

3W	Irrigation Quality - Ca, K, Mg, Na, Cu, Fe, Mn, Zn, Electrical Conductivity, pH, Sulfate, Nitrates, Alkalinity, Chlorides / Calculations: Total Hardness, Sodium Absorption Ratio, TDS	83.00
4W	Hardness Test - Ca, Mg / Calculations: Total Hardness	31.00
5W	Lagoon Discharge Quality - Fecal Coliforms, Total Coliform, BOD	135.00
6W	Lagoon Discharge Nutrient Quality - P, K, Fecal Coliforms, Total Coliform, BOD, Ammonium, Ammonia Nitrogen, pH, Total Nitrogen	160.00
8W	Nitrite, Ammonia Nitrogen, Electrical Conductivity, Nitrates, Chlorides / Calculations: Nitrate-Nitrite Nitrogen	68.00

[View water quality guidelines](#)

## TOXIN Packages

1M	Mold Count	34.00
2M	Mold Count, Mold Identification	36.00
3M	Mold Count, Mold Identification, Mold Ratio	50.00
4M	Vomitoxin, Mold Count	55.00
5M	Vomitoxin	27.00
6M	Zearalenone	44.00
7M	T-2 Toxin	44.00
8M	Fumonisin	44.00
9M	Aflatoxin	52.00
10M	Ochratoxin	44.00
11M	Fumonisin, T-2 Toxin, Vomitoxin, Zearalenone	112.00

12M	Aflatoxin, Fumonisin, Ochratoxin, T-2 Toxin, Vomitoxin, Zearalenone	177.00
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## MANURE Packages (Composted Or Liquid)

1C0	Moisture, Dry Matter, Total Nitrogen	30.00
2C0	Moisture, Dry Matter, Ammonium, Total Nitrogen	51.00
3C0	Moisture, Dry Matter, Ash, Ammonium, Total Nitrogen	54.00
4C0	Moisture, Dry Matter, Total Nitrogen, Ash, Ca, P, K, Mg, Na, S, Cu, Fe, Mn, Zn, B, Mo, Electrical Conductivity, Ammonium (NH <sub>4</sub> ), pH / Calculations: Potassium Oxide (K <sub>2</sub> O), Organic Nitrogen, Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ), Nitrate-Nitrite Nitrogen	100.00
5C0	Moisture, Dry Matter, P, K, S, Total Nitrogen / Calculations: Potassium Oxide (K <sub>2</sub> O), Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	50.00

## FERTILIZER Packages

FERTILIZER	Total Nitrogen, P, K, S / Calculations: Potassium Oxide (K <sub>2</sub> O), Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	62.00
NPK	Total Nitrogen, P, K / Calculations: Potassium Oxide (K <sub>2</sub> O), Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	52.00

## FATS AND OILS Packages

1F0	Moisture, Dry Matter, Insoluble Impurities, Unsaponifiables / Calculations: MIU	60.00
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2F0	Peroxide Value, Rancidity	59.00
3F0	Free Fatty Acid (Oleic Acid)	40.00

## GRAIN & FEED Packages

Crude Protein (factor: n=6.25)

Milling Protein (factor: n=5.7)

1F	Moisture, Dry Matter, Crude Protein	20.00
1FM	Moisture, Dry Matter, Crude Protein / Calculations: Milling Protein	20.00
1FN	Falling Number	25.00
1FNP	Moisture, Dry Matter, Falling Number, Crude Protein / Calculations: Milling Protein	37.00
2F	Moisture, Dry Matter, Crude Protein, Ca, P, Na	37.00
3F	Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na	39.00
4F	Moisture, Dry Matter, Bushel Weight, Crude Protein	36.00
4FM	Moisture, Dry Matter, Bushel Weight, Crude Protein / Calculations: Milling Protein	36.00
5F	Moisture, Dry Matter, Crude Protein, Mold Count, Bushel Weight, Ergot	62.00
5FM	Moisture, Dry Matter, Crude Protein, Mold Count, Bushel Weight, Ergot / Calculations: Milling Protein	64.00
6F	Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn	40.00

7F	Moisture, Dry Matter, Vomitoxin, Crude Protein	45.00
8F	Average Particle Size	30.00
9F	Macro Minerals on Supplements, Rations or Grains - Moisture, Dry Matter, Ca, P, K, Mg, Na	39.00
10F	Macro Minerals on Minerals or Premix - Moisture, Dry Matter, Ca, P, K, Mg, Na	44.00
11F	Micro Minerals on Supplements, Rations or Grains - Moisture, Dry Matter, Cu, Fe, Mn, Zn	39.00
12F	Micro Minerals on Minerals or Premix - Moisture, Dry Matter, Cu, Fe, Mn, Zn	44.00
13F	Complete Minerals on Supplements, Rations or Grains - Moisture, Dry Matter, Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn	39.00
14F	Complete Minerals on Minerals or Premix - Moisture, Dry Matter, Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn	44.00
1MEH	Heavy Metal Contamination - Moisture, Dry Matter, Aluminum, Cadmium, Lead, Arsenic	68.00
4RA	Moisture, Dry Matter, Crude Protein, ADF	32.00
4RC	Moisture, Dry Matter, Crude Protein, ADF, NDF	34.00
4RN	Moisture, Dry Matter, Crude Protein, NDF	32.00
1FAP	Fatty Acid Profile	430.00
1AAP30 - 30 day TAT	Alanine, Arginine, Aspartic Acid, Glutamic Acid, Glycine, Histidine, Isoleucine, Leucine, Lysine, Phenylalanine, Proline, Serine, Threonine, Tyrosine, Valine	100.00
2AAP30 - 30 day TAT	Cystine, Methionine, Taurine	100.00

3AAP30 - 30 day TAT	Tryptophan	100.00
1AAP14 - 14 day TAT	Alanine, Arginine, Aspartic Acid, Glutamic Acid, Glycine, Histidine, Isoleucine, Leucine, Lysine, Phenylalanine, Proline, Serine, Threonine, Tyrosine, Valine	150.00
2AAP14 - 14 day TAT	Cystine, Methionine, Taurine	150.00
3AAP14 - 14 day TAT	Tryptophan	150.00
1AAP5 - 5 day TAT	Alanine, Arginine, Aspartic Acid, Glutamic Acid, Glycine, Histidine, Isoleucine, Leucine, Lysine, Phenylalanine, Proline, Serine, Threonine, Tyrosine, Valine	250.00
2AAP5 - 5 day TAT	Cystine, Methionine, Taurine	250.00
3AAP5 - 5 day TAT	Tryptophan	250.00

## GRAIN & FEED ENERGY Packages

For Grains, Rations And Supplements

1R	Moisture, Dry Matter, Crude Fibre, Fat, Ash, Crude Protein / Calculations: DE for Cattle/Sheep, DE for Swine, GE for Swine, ME for Poultry, ME for Swine, NFC, TDN	48.00
2R	Moisture, Dry Matter, Crude Fibre, Fat, Ash, Ca, P, Crude Protein / Calculations: DE for Cattle/Sheep, DE for Swine, GE for Swine, ME for Poultry, ME for Swine, NFC, TDN	53.00

3R	Moisture, Dry Matter, Crude Protein, Crude Fibre, Fat, Ash, Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn / Calculations: DE for Cattle/Sheep, DE for Swine, GE for Swine, ME for Poultry, ME for Swine, NFC, TDN	55.00
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## MEDICATION RESIDUE Packages

ChlorTetracycline	Chlortetracycline	226.00
SULFAMETHAZINE	Sulfamethazine	190.00

## MIXER EFFICIENCY Packages

Macro Minerals: Ca, P, K, Mg, Na – Micro Minerals: Cu, Fe, Mn, Zn

Based on 10 sample minimum. Includes calculation of mean (average), standard deviation, and co-efficient of variation.

1MEF	Complete Feeds - Select one Mineral from either the Macro or the Micro Mineral group (additional samples \$16.00 each)	160.00
2MEF	Complete Feeds - Select two or more Minerals from either the Macro or the Micro Mineral group (additional samples \$20.00 each)	200.00
1MEM	Mineral Supplements - Select one Mineral from either the Macro or the Micro Mineral group (additional samples \$20.00 each)	200.00
2MEM	Mineral Supplements - Select two or more Minerals from either the Macro or the Micro Mineral group (additional samples \$30.00 each)	300.00

# FORAGE Packages

1FF	Beef Cattle - Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF / Calculations: DE, ME, NEG, NEL, NEM, TDN	42.00
2FF	Dairy Cattle - Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF, NDF / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN	50.00
3FF	Beef Cattle plus pH and Nitrates - Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF, Nitrates, pH / Calculations: DE, ME, NEG, NEL, NEM, TDN	55.00
4FF	Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF, ADI-CP, ADIN (% Crude Protein) / Calculations: Adjusted Crude Protein, DE, Digestible Protein, ME, NEG, NEL, NEM, TDN	50.00
5FF	Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF, NDF, ADI-CP, ADIN (% Crude Protein) / Calculations: Adjusted Crude Protein, DE, Digestible Protein, ME, NEG, NEL, NEM, NFC, RFV, TDN	62.00
6FF	Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, ADF, NDF, ADI-CP, NDI-CP, ADIN (% Crude Protein), NDIN (% Crude Protein) / Calculations: Adjusted Crude Protein, DE, Digestible Protein, ME, NEG, NEL, NEM, NFC, RFV, TDN	66.00
7FF	Moisture, Dry Matter, Crude Protein, Insoluble Protein, Ca, P, K, Mg, Na, ADF, NDF, ADI-CP, NDI-CP, ADIN (% Crude Protein), NDIN (% Crude Protein) / Calculations: Adjusted Crude Protein, DE, Digestible Protein, ME, NEG, NEL, NEM, NFC, RFV, TDN, Soluble Protein	75.00

8FF	Protein on High Moisture Samples - Moisture, Dry Matter, Crude Protein	28.00
9FF	Hay Buyers Package - Crude Protein, Ca, P, K, Mg, Na, Moisture, Dry Matter / NIR: Moisture, Dry Matter / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN, Acid Detergent Fibre, Neutral Detergent Fibre	64.00
10FF	Equine Nutrition Package - Crude Protein, Lignin, Ca, P, K, Mg, Na, Cu, Fe, Mn, Zn, Mo, Esc (Simple Sugars), Starch (Enzymatic), Wsc (Water Soluble Carbs As Simple Sugar), Moisture, Dry Matter, Fat, Ash, ADF, NDF / NIR: Moisture, Dry Matter / Calculations: DE for Horses, NFC, RFV, TDN, Non Structural Carbohydrate	95.00
11FF	Crude Protein, Moisture, Dry Matter, Fat, Ash, Acid Detergent Fibre, Neutral Detergent Fibre / Calculations: ME, TDN	54.00
12FF	Nitrates, Moisture, Dry Matter	40.00
13FF	2FF + Nitrate - Crude Protein, Calcium, Phosphorus, Magnesium, Potassium, Sodium, Nitrates (Total NO <sub>3</sub> ), Moisture, Dry Matter, Acid Detergent Fibre, Neutral Detergent Fibre / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN	60.00
14FF	2FF + pH - Crude Protein, Calcium, Phosphorus, Magnesium, Potassium, Sodium, pH, Moisture, Dry Matter, Acid Detergent Fibre, Neutral Detergent Fibre / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN	58.00

## **FORAGE Packages By NIR (Near Infrared**

# Spectroscopy)

NIR available for the following forages: Grass Hay, Alfalfa Hay, Alfalfa/Grass Mix Hay, Alfalfa Silage, Alfalfa/Grass Mix Silage, Barley Silage, Corn Silage and Cereal Silage

1FFNIR	NIR Pkg w/Minerals by Wet Chemistry - Moisture, Dry Matter, Ca, P, K, Mg, Na / NIR: Moisture, Dry Matter, Crude Protein, Insoluble Protein, ADF, NDF, ADI-CP, ADIN (% Crude Protein) / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN, Soluble Protein	30.00
2FFNIR	Dairy NIR Pkg w/Minerals by Wet Chemistry - Moisture, Dry Matter, Ca, P, K, Mg, Na / NIR: Moisture, Dry Matter, Crude Protein, Insoluble Protein, Fat, Ash, Lignin, ADF, NDF, ADI-CP, NDI-CP, ADIN (% Crude Protein), NDIN (% Crude Protein), Ivtdmd (Invitro True Digestibility 48Hr), NDFD (Neutral Detergent Fibre Digestibility 48Hr), Starch / Calculations: Adjusted Crude Protein, DE, Digestible Protein, ME, NEG, NEL, NEM, NFC, RFV, RFQ, TDN, Soluble Protein	34.00
3FFNIR	Basic NIR (no wet chemistry) - Moisture, Dry Matter / NIR: Moisture, Dry Matter, Crude Protein, Ca, P, K, Mg, Na, Lignin, ADF, NDF, ADI-CP, NDI-CP, ADIN (% Crude Protein), NDIN (% Crude Protein) / Calculations: DE, ME, NEG, NEL, NEM, NFC, RFV, TDN	25.00

## Forage Package Add-Ons

FFSP	Insoluble Protein	20.00
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FFST	Starch (Enzymatic)	37.00
FFMP	Cu, Fe, Mn, Zn	12.00
NITRATE	Nitrates	12.00
3RS	Selenium	57.00

## **MICROBIOLOGY Packages for Water and Liquids**

MICW3	Total Coliform by Membrane Filtration	30.00
MICW4	E.coli (Escherichia coli) by Enzyme Substrate	32.00
MICW8	Fecal Coliforms by Membrane Filtration	28.00

## **MICROBIOLOGY Packages For Grain And Food Tests**

Applicable to feeds and most agri-food products. Additional sample preparation fee applies.

MIC1	Standard Plate Count	25.00
MIC2	Mold Count, Yeast	22.00
MIC3	Total Coliform	22.00
MIC4	E.coli (Escherichia coli)	22.00
MIC5	Salmonella	34.00
MIC5S	Salmonella Serotyping	76.50
MIC6	Staphylococcus Aureus	28.00
MIC7	Listeria	39.00
MIC8	Fecal Coliforms	22.00

MIC10	E.coli (Escherichia coli), Listeria, Mold Count, Salmonella, Standard Plate Count, Staphylococcus Aureus, Total Coliform, Yeast	137.00
MICRO 1	E.Coli 0157:H7	27.00
MICRO 2	E.coli (Escherichia coli), Mold Count, Salmonella, Standard Plate Count	88.00

## PET FOOD Packages

Pet Food Proximates	Moisture *, Dry Matter, Crude Protein, Crude Fibre, Ash, Fat Hydro	61.00
Pet Food Package	Pet Food Proximates plus Minerals - Moisture *, Dry Matter, Crude Protein, Crude Fibre, Ash, Ca, P, K, Mg, Na, S, Cu, Fe, Mn, Zn, Co, Fat Hydro, Salt, Soluble Chloride / Calculations: GE for Dogs, ME for Dogs, NFC, TDN	75.00
	* Additional moisture charge for wet or raw samples.	10.00

## INDIVIDUAL TEST OPTIONS

Additional fees apply if not added to a package. Contact us to find out more.

ADF	Acid Detergent Fibre	13.00
ASH	Ash	10.00
BUSHEL WEIGHT	Bushel Weight	10.00
CHLORIDE	Chloride	30.00
CRUDE FIBRE	Crude Fibre	14.00

FAT-EE	Fat by Ether Extract	15.00
FAT-HYDRO	Fat by Hydrolysis	37.00
COPPER	Individual minerals	30.00
NDF	Neutral Detergent Fibre	13.00
pH	pH	10.00
SALT	Salt, Soluble Chloride	20.00
Starch (Enzymatic)	Starch (Enzymatic)	37.00
SULPHUR	Sulphur	30.00

## Acronyms

ADF	Acid Detergent Fibre
B	Boron
BOD	Biochemical Oxygen Demand
Ca	Calcium
Co	Cobalt
Cu	Copper
DE	Digestible Energy
Fe	Iron
GE	Gross Energy
K	Potassium
ME	Metabolizable Energy
Mg	Magnesium
Mn	Manganese
Mo	Molybdenum
Na	Sodium
NDF	Neutral Detergent Fibre

NEG	Net Energy for Gain
NEL	Net Energy for Lactation
NEM	Net Energy for Maintenance
NFC	Non Fibre Carbohydrates
NSC	Non Structural Carbohydrate
P	Phosphorus
RFV	Relative Feed Value
S	Sulphur
TAT	Turn around time in business days
TDN	Total Digestible Nutrients
TDS	Total Dissolved Solids
Zn	Zinc

**Additional testing is available on request.**

**Contact Central Testing Laboratory Ltd. for availability and pricing**

Prices subject to change without notice.

Rush testing and rechecks may be subject to additional charges.

Please add 5% GST to all prices. A minimum charge of \$25 per invoice applies.

Effective Sept 01, 2018