

Test	Description:	Price	Code:	Notes:
<b>NIR PACKAGES</b>				
NIR1 Package	The NIR 1 Analysis includes tests for Dry Matter, Moisture, Crude Protein, ADF Protein, NDF Protein, Soluble Protein, ADF, NDF, NDFom, Lignin, Starch, Sugar, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K) with pH by traditional method on an ensiled forage. Calculated values are provided for Available Protein, Adjusted Protein, Degradable Protein, NEL, NEM, NEG (OARDC Summative Energy Equation), and NFC.	\$ 18.00	A1	
NIR2 Package	The NIR 2 is the NIR 1 Analysis with wet-chemistry Minerals - Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn), and Copper (Cu).	\$ 27.00	A2	
NIR3 Package	The NIR 3 is the NIR 2 Analysis plus wet-chemistry on Chloride (Cl) and Sulfur (S)."	\$ 34.75	A3	
NIR4 Package	The NIR 4 is the NIR 2 Analysis plus wet-chemistry on Crude Protein, ADF, and NDF.	\$ 41.25	A4	
NIR5 Package	The NIR 5 is the NIR 1 Analysis plus wet-chemistry on Crude Protein, ADF, and NDF.	\$ 29.50	A5	
NIR Plus Option	Provides 30 hr NDF Digestibility with Kd Rate, NDF Digestibility 120 and 240, uNDF120, uNDF240, an NIR evaluation of Fermentation acids (for ensiled forages) for NIR1-NIR5 as well as Indigestible Fiber, Total Fatty Acids, and Soluble Fiber. This option also includes a soil contamination probability index of Low, Medium or High (not available for corn grain). For Corn Silages, the NIR Plus Option also provides 12 hr NDF digestibility and qualitative assessment of 7 hr starch digestibility.	\$ 9.50	P	
CPM Plus Option	Provides Neutral Detergent Residue (NDR) in place of aNDF analysis	\$ -		
TMR Mixture Evaluation Package	(Set of 5 samples analyzed to assess mixer efficiency) NIR analysis with chemistry minerals. This package includes DM, CP, Soluble Protein, ADF, NDF, Lignin, Fat, Starch, Sugar, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zn, Cu.	\$ 132.50	A10	
Manure Package	Dry Matter, Crude Protein, ADF, NDF, lignin, indigestible NDF, starch, ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K).	\$ 18.00	A1	

Distillers Package	The NIR 1 Analysis includes tests for Dry Matter, Moisture, Crude Protein, ADF Protein, NDF Protein, Soluble Protein, ADF, NDF, Lignin, Starch, Sugar, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K). Calculated values are provided for Available Protein, Adjusted Protein, Degradable Protein, NEL, NEM, NEG (OARDC Summative Energy Equation), and NFC.	\$ 18.00	A1	
Soybean Meal NIR Package	Dry Matter, Crude Protein, Crude Fiber, Fat , Calcium (Ca), Phosphorus (P).	\$ 18.00	A1	
Apparent Nutrient Digestibility	Includes a NIR Plus evaluation of a high group TMR and associated fecal matter to generate an evaluation of apparent NDF and starch digestibility.	\$ 60.00	ASD	TMR AND FECAL SAMPLE NEED TO COME TOGETHER
Equine Basic	This NIR package includes Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar (WSC), Protein, ADF, NDF, NDFom, Fat, Fatty Acids (total), Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K).	\$ 18.00	EQ1	
Equine Lancer	This package included Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, NDFom, Fat, Fatty Acids (total), and Ash by NIR. Chemistry minerals are provided, superior analytically to NIR predictions, including Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn), and Copper (Cu)	\$ 27.00	EQ2	
TMR Control - NIR	NIR analysis with chemistry minerals. This package includes DM, CP, Soluble Portein, ADF, NDF, 24 hour NDF Digestibility, Lignin, Fat, Starch, Sugar, Ash, Ca, P, Mg, Na, Cl, S, Fe, Mn, Zn, Cu. Also included is an evaluation for peNDF, SPS (starch processing score), and teh Penn State Particle Size Evaluation. Weekly contract price available.	\$ 67.75		

#### CHEMISTRY PACKAGES

Standard Package	Includes Dry Matter, Moisture, Crude Protein, Unavailable Protein (Haylages only), Adjusted Protein, Soluble Protein, calculated Degradable Protein (Forages only), Acid Detergent Fiber (ADF), Neutral Detergent Fiber (NDF), Ash, NFC, TDN, NEL, NEM, NEG (energy values on forages only), RFV, and Ca, P, Mg, K, Na, Fe, Mn, Zn, and Cu with pH on an ensiled forage.	\$ 35.75	B1	
Standard Plus Energy	Standard Package plus CNCPS option to get Energy Values on Non-Forages.	\$ 56.50	B1 + ENERGY	

CPM Plus Package	Includes the Standard Analysis and Lignin, Fat, ADFCP, NDFCP, Chloride, Sulfur, Starch and Sugar. When combined with our Fermentation Analysis a Soluble Fiber is calculated.	\$ 81.75	B2	
RFV Package	Includes Dry Matter, Moisture, Crude Protein, ADF, NDF, calculated RFV (on hays and haylages), Adjusted Protein, NEL, NEM, NEG, & TDN.	\$ 22.75	B3	
Basic NDF Package	Dry Matter, Moisture, Crude Protein, ADF, NDF, Minerals (Ca, P, Mg, K, Na, Fe, Mn, Zn, and Cu), pH on ensiled forages, with calculated values for Adjusted Protein, TDN, NEL, NEG, and NEM.	\$ 31.50	B4	
Minerals Only	Mineral mixes must use this option. Includes Dry Matter, Ca, P, Mg, K, Na, Fe, Mn, Zn, and Cu.	\$ 28.75	B6	
TMR Diagnostic Package	By chemistry; includes DM, CP, Soluble Protein, Ammonia, ADF, NDF, peNDF (physically effective NDF - Mertens) 24 hour NDF Digestibility, Lignin, Fat, Starch, SPS (starch processing score), 7 hour Starch Degradability, Sugar, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zn, Cu, Lactic Acid, Acetic Acid, Butyric Acid, and the Penn State Particle Size Evaluation.	\$ 177.00	B7	
TMR Control - Chemistry	By chemistry; includes DM, CP, Soluble Protein, ADF, NDF, Starch, Ash, Ca, P, Mg, K, Na, Cl, S, Fe, Mn, Zu, Cu	\$ 80.25		
Animal Protein Package	Provides Dry Matter, Moisture, Crude Protein, Soluble Protein, Ash, Fat, Ca, P, Cl, and S.	\$ 57.50	B8	
Liquid Sample	Liquid Sample DM, CP, Ammonia, Fat, Sugar, Ash, Ca, P, Mg, K, Na, Fe, Mn, Zn, Cu, TDN, NEL, NEM, and NEg	\$ 56.50		
Liquid Sample	Liquid Sample Above analysis with Karl Fischer moisture	\$ 105.00		
Feed Mill Mixer Evaluation	Evaluation of Cp, Ash, Ca, P, Mg, Na, Cl, Fe, Mn, Zn, Cu on 10 samples. Includes report of analyses including average, SD, and COV for nutrients	\$ 202.75		
Equine Chemistry Standard	This package is similar to the Equine Lancer package but uses reference chemistry methods in place of more economical NIR. It provides Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Iron (Fe), Manganese (Mn), Zinc (Zn), Molybdenum (Mo), and Copper (Cu).	\$ 59.50	EQ3	
Equine Chemistry Complete	This package includes Dry Matter, Moisture, Digestible Energy, NSC, NFC, RFV, Starch, Sugar, Protein, ADF, NDF, Lignin, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Sodium (Na), Sulfur (S), Chloride (Cl), Iron (Fe), Manganese (Mn), Zinc (Zn), Copper (Cu), and Molybdenum (Mo).	\$ 81.75	EQ4	

**COMPONENTS**

Acid Insoluble Ash	Acid Insoluble Ash	\$ 26.25		
ADF	ADF	\$ 6.75	G1	
ADFom (ash free)	ADFom (ash free)	\$ 9.75	G2	
ADFCP	ADFCP	\$ 6.75	G3	
Ammonia Nitrogen	Ammonia	\$ 11.75	G5	
Ash	Ash	\$ 6.75		
Barium	Barium	\$ 38.50		
Boron	Boron	\$ 12.00		
Chloride	Chloride	\$ 6.75	G7	
Cobalt	Cobalt	\$ 37.00		
Crude Fiber	Crude Fiber	\$ 9.50	E9	
Crude Protein	Crude Protein	\$ 6.75		
Deg. Protein (strep. Griseus)	Deg. Protein	\$ 13.50	G9	
Dry Cow Option (DCAD)	Chloride, Sulfur	\$ 12.25	F10	
Dry Matter	Dry Matter	\$ 3.25	E6	
Ergonovine	Ergonovine	\$ 98.25		
Fat (Acid-Hydrolysis)	Fat (Acid-Hydrolysis)	\$ 38.25	E8	
Fat (Ether Extract)	Fat (Ether Extraction)	\$ 10.75		
Fecal Starch	Fecal Starch	\$ 13.00		THIS NEEDS TO BE ACCOMPANIED WITH A LETTER/PERMIT IF NEEDING WET CHEM. THIS CAN BE DONE BY NIR IN HOUSE AT FAS
Free Fatty Acids	Free Fatty Acids	\$ 28.25		
Gossypol Free	Gossypol Free (Cottonseed Extract and Meal)	\$ 402.50		
Gossypol Total	Gossypol Total (Cottonseed Extract and Meal)	\$ 275.50		
Initial Peroxide (on liquid)	Initial Peroxide (on liquid)	\$ 31.00		
Initial Peroxide (on dry)	Initial Peroxide (on dry)	\$ 92.00		
Iodine	Idone (Fats & Oils)	\$ 51.50		
Iodine	Idone (Minerals & Metals)	\$ 79.50		
Karl Fischer Moisture	Karl Fischer	\$ 48.00	E10	
KOH	KOH	\$ 40.50		
Lactose	Lactose	\$ 77.25		
Lead	Lead	\$ 37.50		
Lignin	Lignin	\$ 10.50	G14	
Micron Particle Size	Micron Particle Size	\$ 20.50	E11	
Moisture Only	Moisture Only	\$ 3.25		
Molybdenum	Molybdenum	\$ 12.00	G15	
Micron Particle Size	Micron Particle Size	\$ 20.50		
aNDF	aNDF	\$ 6.75	G16	
aNDFom (ash-free)	aNDFom (ash-free)	\$ 9.75	G17	
aNDF-CP	NDF-CP	\$ 6.75	G18	

aNDR	aNDR	\$ 6.50	G19	
Nitrate	Nitrate	\$ 11.75	G20	
Non-Protein Nitrogen (NPN)	Non-Protein Nitrogen (NPN)	\$ 30.50	G21	
Particle Size Evaluation (Penn State Separator)	Particle Size Evaluation	\$ 8.25	F13	
Pepsin Digestibility (0.2% pepsin as per AOAC-includes crude protein determination)	Pepsin Digestibility	\$ 54.25		
pH	pH	\$ 6.25		
Protein Only	Protein Only	\$ 6.75		
Protein Dispersibility Index	(includes PDI, CP and Urease Activity)	\$ 48.00	G22	
Prolamin	Prolamin	\$ 28.25		
Prussic Acid (Cyanide)	Prussic Acid (Cyanide)	\$ 61.75		SAMPLES NEED TO BE FROZEN AND SENT ON ICE
Salt (as chloride)	Salt (as chloride)	\$ 6.75		
Selenium	Selenium (expected levels needed)	\$ 54.50	G24	EXPECTED LEVELS NEEDED
Soluble Protein	Soluble Protein	\$ 6.75	G25	
Starch	Starch	\$ 13.00	G26	
Starch (Gelatinized)	Starch (Gelatinized)	\$ 49.50		
Sugar	Sugar (ESC)	\$ 10.75	G27	
Sugar	Sugar (WSC)	\$ 10.75		
Sulfur	Sulfur	\$ 6.75	G28	
Trypsin Inhibitor	Trypsin Inhibitor	\$ 98.75		
Urea and ammonia	Urea and ammonia (CPE basis)	\$ 27.25		
Urease Acitivity	Urease Acitivity	\$ 24.75	G29	
Vitamin A	Vitamin A	\$ 123.50		APPROXIMATE LEVELS NEEDED
Vitamin D by LC-MS/MS (LOD 5.5 IU/lb.)	Vitamin D by LC-MS/MS (LOD 5.5 IU/lb.)	\$ 448.75		
Vitamin D for premixes (LOD 10,000 IU/lb.)	Vitamin D for premixes (LOD 10,000 IU/lb.)	\$ 135.00		
Vitamin E	Vitamin E	\$ 122.00		
<b>PROXIMATE</b>				
TAG 1 Package	Includes Dry Matter, Moisture, Crude Protein, Crude Fat, and Crude Fiber	\$ 27.25	E1	
TAG 2 Package	Includes Tag I plus Ash, Ca, and P.	\$ 37.75	E2	
TAG 3 Package	Includes Tag I plus Ash and Ca, P, Mg, K, Na, Fe, Mn, Zn, Cu.	\$ 46.75	E3	
TAG 4 Package	Includes Dry Matter, Moisture, Ash, Ca, and P.	\$ 23.25	E4	
Protein Only	Protein (combustion)	\$ 6.75	E5	
Moisture Only	Moisture (Moisture loss drying at 135°C for 2 hrs)	\$ 3.25	E6	

Crude Fat	Fat (ether extraction)	\$ 10.75	E7	
Fat (acid hydrolysis)	Acid Hydrolysis Fat	\$ 38.25	E8	
Crude Fiber	Crude Fiber	\$ 9.50	E9	
Ash	Ash	\$ 6.75	G6	
Karl Fischer Moisture		\$ 48.00	E10	
<b>IN VITRO DIGESTIBILITY</b>				
MSPE Freeze Dry		\$ 144.50		
MSPE	Based on work by Dr. Debbie Ross and Dr. Mike Van Amburgh. An In Vitro evaluation of feed material is followed by treatment sequentially with acid and enzymes. Rumen availability as well as intestinal digestibility is provided	\$ 118.25		
NDF Digestibility Invitro	- Time points may include 6, 12, 24, 30, 48 or (iNDF at 240 hrs)	\$ 27.50	C1, C2, C3, C4, C5 RESPECTIVEL Y	
NDF Digestibility Time Point Series 6 points with Rates Invitro		\$ 129.75		
Starch Digestibility Invitro	Time points may include 2, 7, 24, 30 HRS	\$ 33.50	D1, D2, D3, D4 RESPECTIVEL Y	
Starch Digestibility Time Point Series 6 points with Rates Invitro		\$ 170.25		
Dry Matter Digestibility Invitro	Time points as determined by client.	\$ 21.50		
Dry Matter Digestibility Time Point Series 6 points Invitro		\$ 106.75		
NDF Basic RPE for Forages	30, 120, and 240 hour digestibility values Includes NDF and listed time points all on an organic matter basis; All points are run 3x on different days for high accuracy;	\$ 67.75		
NDF Standard RPE for Forages	4, 8, 12, 24, 48, 72, 120, and 240 hour values Includes NDF and listed time points all on an organic matter basis; All points are run 3x on different days for high accuracy; Special RPE Report with Vensim rates, pools, and lag	\$ 114.25		
NDF Basic RPE for Ingredients	12, 72, and 120 hour digestibility values Includes NDF and listed time points all on an organic matter basis; All points are run 3x on different days for high accuracy;	\$ 67.75		
	4, 8, 12, 24, 48, 72, 120, and 240 hour values			

NDF Standard RPE for Ingredients	Includes NDF and listed time points all on an organic matter basis; All points are run 3x on different days for high accuracy; Special RPE Report with Vensim rates, pools, and lag	\$ 114.25		
<b>ANALYSIS OPTIONS</b>				
Micron Particle Size	Micron Particle Size	\$ 20.50	E11	
Fermentation Package	Includes Dry Matter, Titratable Acidity, Lactic Acid, Acetic Acid, Propionic Acid, Butyric Acid, Iso-butyric Acid, 1,2 Propanediol, Total VFA, pH, Lactic Acid/VFA ratio, Crude Protein equivalent from Ammonia, and Ammonia N as a percentage of total N.	\$ 26.75	F1	
Fermentation Analysis Plus Package	Includes fermentation analysis plus methyl acetate, ethyl acetate, methanol, ethanol, propyl acetate, 2-Butanol, 1-propanol, ethyl lactate, propyl lactate.	\$ 42.00		
Fatty Acid Profile	Fatty Acid Profile (30m column)	\$ 65.25		
Fatty Acid Profile	Fatty Acid Profile (other products, 100m column)	\$ 97.75		
Free Fatty Acids	Free Fatty Acids	\$ 28.25	F4	
Milk Fatty Acid Profile	Milk Fatty Acid Profile (100m column)	\$ 97.75		
Fat (Acid Hydrolysis)	Acid Hydrolysis Fat	\$ 37.25		
Heavy Metals	Includes Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Phosphorus, Potassium, Selenium, Sodium, Sulfur, Thallium, Zinc.	\$ 78.00	F5	
Mold Count	Yeast/Mold Count	\$ 26.50	F8	
Mold Identification	Mold/Yeast Count with Mold Identification	\$ 49.00	F9	
PDI/Urease/KOH	Protein Dispersibility Index	\$ 86.50	G22	
PDI/Urease	Protein Dispersibility Index	\$ 47.25	G23	
Selenium	Selenium (expected levels needed)	\$ 54.50	G24	EXPECTED LEVELS NEEDED
Urease Activity	Urease Activity	\$ 25.25	G29	
Acid Hyd. Fat	Fat (acid-hydrolysis)	\$ 38.25	E8	
CNCPS	Adds to the standard package fat, lignin, adin and ndin	\$ 20.75	F6	
Byproduct	Adds to the standard package fat, lignin, adin, ndin, sulfur and chloride	\$ 29.25	F7	
DCAD (CL, S)	DCAD (CL, S)	\$ 12.25	F10	
CSPS	Corn Silage Processing Score	\$ 20.50	F11	
PENDF	Physically Effective NDF	\$ 20.50	F12	
Particle Size	Particle Size Evaluation (Penn State Separator)	\$ 8.25	F13	
Molybdenum	Molybdenum	\$ 12.00	G15	
NPN	Non-Protein Nitrogen (NPN)	\$ 30.50	G21	

Micron Particle Size	Micron Particle Size	\$ 20.50	E11	
<b>WATER</b>				
Total Coliform and E.coli	billed in CAD from Fraser Analytical. All other water tests follow USD price schedule.	\$ 46.35		SAMPLES MUST BE RECEIVED WITHIN 24 HOURS OF COLLECTION, MUST BE COLLECTED IN A BOTTLE WITH SODIUM THIOSULFATE. CAN BE RUN AT FAS
Nitrate Nitrogen and pH		\$ 14.50		
Livestock Suitability Package	Includes pH, hardness, total dissolved solids, Ca,P,Mg,K,Na,Fe,Mn,Zn,Cu, chlorides, sulfates and nitrates	\$ 39.75	LSP	
pH	PH	\$ 6.25		
Alkalinity	Alkalinity	\$ 12.50		
<b>Plant Tissue Analysis</b>				
Standard	Standard	\$ 46.25		
Trace Minerals each	Trace Minerals each	\$ 42.25		
Nitrate Nitrogen	Nitrate Nitrogen	\$ 12.50		
Total Nitrogen	Total Nitrogen	\$ 7.00		
Total Carbon	Total Carbon	\$ 28.00		
Total Sulfur	Total Sulfur	\$ 7.00		
<b>MANURE</b>				
Base Test Package 1	Total Nitrogen, P205, K2O, NH3, DM, Density	\$ 38.75		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Base Test Package 2	Total Nitrogen, P205, K2O, NH3, DM	\$ 33.50		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Base Test Package 3	Total Nitrogen, P205, K2O, NH3	\$ 31.25		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Water Soluble Phos		\$ 11.75		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Minerals	Ca,Mg,Na,Fe,Mn,Zn, & Cu	\$ 8.75		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Volatile Solids		\$ 6.25		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
pH		\$ 6.25		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Total Carbon (C/N)		\$ 26.75		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT
Lagoon Analysis Package	pH, Nitrogen, Total Solids, Minerals	\$ 52.00		ORIGINAL MANURE SAMPLES NEEDING WET CHEM NEED A LETTER/PERMIT



**MYCOTOXINS**

Mycotoxin Screen	Aflatoxin B1, B2, G1, G2, Deoxynivalenol, Zearalenone by HPLC	\$ 82.25		
Mycotoxin Screen Plus	Aflatoxin B1, B2, G1, G2, Deoxynivalenol, Zearalenone, Fumonisin B1, B2, B3, Ochratoxin by HPLC.	\$ 110.00		
Toxin Screen with T2 (LC/MS)	Aflatoxin B1, B2, G1, G2, Deoxynivalenol, Zearalenone, Fumonisin (B1, B2, B3), Ochratoxin, T-2	\$ 246.00		
Aflatoxin by HPLC	Aflatoxin B1, B2, G1, G2	\$ 43.50		
Fumonisin by HPLC	Fumonisin B1, B2, B3	\$ 77.50		
HT2 toxin LC/MS		\$ 57.75		
Ochratoxin by HPLC		\$ 77.50		
T2 toxin by LC/MS		\$ 57.75		
Vomitoxin (DON) by HPLC	Deoxinvalenol	\$ 61.75		
Zeralenone by HPLC		\$ 77.50		

**INSITU**

Protein Digestibility Insitu	Rumen Undegradable Protein (RUP) at 16 hrs	\$ 99.50	I1	
Dry Matter Digestibility Insitu	24, 30, 48 hours	\$ 73.00	I4	
Starch Digestibility Insitu	Time points may include 2, 4, 6, 7, 8, 12, 18, 24, 36 or 72 hrs.	\$ 101.50	I2	
NDF Digestibility Insitu	Time points may include 6, 12, 24, 30, 48, 96, 120 or 240 hrs (iNDF).	\$ 99.50	I3	

**AMINOACIDS**

Cystine, Methionine, Lysine plus 9 more	Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, and Leucine	\$ 92.50		ANITICIPATED LEVELS NEEDED
Full Profile w/o Tryptophan	Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Taurine, Hydroxyproline, Serine, Lanthionine, Tyrosine, Phenylalanine, Hydroxylysine, Ornithine, Histidine, and Agrinine	\$ 128.75		ANITICIPATED LEVELS NEEDED
Full Profile with Tryptophan	Cystine, Methionine, Lysine, Aspartic Acid, Threonine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Taurine, Hydroxyproline, Serine, Lanthionine, Tyrosine, Phenylalanine, Hydroxylysine, Ornithine, Histidine, Agrinine, and Tryptophan	\$ 149.25		ANITICIPATED LEVELS NEEDED
Total Lysine	Total Lysine	\$ 80.50		ANITICIPATED LEVELS NEEDED
Total Methionine	Total Methionine	\$ 84.25		
Tryptophan	Tryptophan	\$ 80.50		