

2005 PRICE LIST

AFFILIATIONS, ACCREDITATIONS AND CERTIFICATIONS

- Member of the Association of Official Analytical Chemists
- Member of the American Oil Chemists Society
- Approved Chemists of the National Oilseed Producers Association
- Official Chemist for the Chicago Board of Trade
- Member of the American Chemical Society
- Member of The Pet Food Institute
- Member of The Poultry Federation
- Member of The Florida Feed Association
- Florida Dept. of Ag. Certified Feed Lab for Nutrients, Pesticides, Mycotoxins and Micro-organisms.
- USDA Accredited for Chlorinated Hydrocarbon Pesticides and PCB's
- USDA AMS Laboratory Verification Program for the Analysis of Poultry Products Exported to Russia
- USDA APHIS Registered Laboratory TN-LAB-0001
- USDA Inspected
- FDA Inspected

Barrow-Agee Laboratories participates in the following check sample programs:

- AAFCO Feed Check Sample
- AOCS Smalley Series-Gas Chromatography
- AOCS Smalley Series-Soybean Oil
- AOCS Smalley Series-Oilseed Meal
- USDA Accredited Laboratory Program-Chlorinated Hydrocarbon Pesticides
- USDA Accredited Laboratory Program-PCB Residues
- Florida Department of Agriculture Check Sample Program

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Introduction

Mission Statement- Our goal is to provide customized and personalized service to our clients while generating accurate and reproducible data.

Barrow-Agee Laboratories, Inc., incorporated in 1917, is an independent analytical testing firm acclaimed as one of the nation's finest food and agriculture testing labs. Qualified technicians in our centralized facilities in Memphis, Tennessee perform full analytical services in both chemical and microbiological techniques. Barrow-Agee is registered with the U.S. Food and Drug Administration (#1020401), and follows current **Good Manufacturing Practices (cGMP)** Regulations, which provide recommendations for quality control, test characterization and retention of samples. Barrow-Agee practices extensive quality control by a combination of analyzing known samples, as well as duplicate assays, frequent instrument calibration, collaborative studies, and participating in check sample programs, such as AOCS, USDA, and AAFCO, to insure that our clients receive only the most accurate, reliable data. Accurate analysis, with our unique personal service, has enabled Barrow-Agee to serve our clients worldwide for over 85 years.

General Information

Samples should be submitted with detailed identification on company letterhead or purchase order. When submitting samples, please identify your samples properly, along with the specific tests to be performed, and estimated expected levels. Perishable samples should be packed on dry ice, and shipped in coolers. Coolers will be returned, if requested. Hazardous samples may be returned at our discretion. Samples will be retained for 30 days, unless otherwise instructed. Certain types of samples require extensive preparation for analysis, and may entail a sample preparation charge. Please observe proper sampling techniques, as our analysis is representative only of the sample submitted.

All laboratory results are strictly confidential and are not released without our client's permission. Computerized retrieval of analytical results, as well as customized, statistical presentation of data, is available. Additional charges for expedited analysis may be incurred. All prices are subject to change without notice. Please call customer service for more information.

Quality Statement

Barrow-Agee Laboratories maintains a quality assurance unit responsible for monitoring the overall operations and testing procedures in the laboratory. This is done to assure that we provide credible data to our clients. In addition to that, the QA unit assures the management that the facilities, equipment, personnel, methods, practices, records and controls are in compliance with current Good Manufacturing Practice (cGMP) regulations. These recommendations, as well as protocols from the USDA and EPA help make up the fundamental basis for the overall quality assurance program of Barrow-Agee Laboratories. The quality assurance unit is defined as being entirely separate from and independent of the personnel engaged in the direction and conduct of testing procedures and non-clinical studies being performed in the laboratory. The quality assurance officer of Barrow-Agee performs monthly audits of a wide range of specific areas that have an influence on the overall quality of the laboratory. By utilizing this system, the quality assurance officer spots potential problems and deviations from protocols, and implements the appropriate corrective action, thus insuring that quality control is maintained in the laboratory.

Antibiotics and Coccidiostats*

Avatec (Lasalocid).....	\$ 125.00	Novobiocin (Albamix).....	\$ 90.00
Arsanilic Acid.....	\$ 70.00	Ormetoprim.....	\$ 90.00
Aureomycin (Chlortetracycline).....	\$ 65.00	Oxytetracycline (Terramycin).....	\$ 65.00
Bacitracin (MD or Zinc).....	\$ 75.00	Penicillin.....	\$ 80.00
Bambermycin (Flavomycin and Gainpro).....	\$ 80.00	Rofenaid (Sulfadimethoxine + Ormetoprim).....	\$ 160.00
Biocox (Salinomycin).....	\$ 80.00	Roxarsone (3 Nitro).....	\$ 60.00
Bovatec (Lasalocid).....	\$ 125.00	Rumensin (Monensin).....	\$ 65.00
Chloramphenicol.....	\$ 75.00	Salinomycin.....	\$ 80.00
Chlortetracycline (Aureomycin).....	\$ 65.00	Spectinomycin.....	\$ 80.00
Coban (Monensin).....	\$ 65.00	Streptomycin.....	\$ 80.00
Decoquinat (Deccox).....	\$ 90.00	Sulfadimethoxine.....	\$ 90.00
Enrofloxacin.....	\$ 80.00	Sulfamethazine.....	\$ 90.00
Erythromycin.....	\$ 90.00	Sulfaquinoxaline.....	\$ 90.00
Fenbendazole (Safe Guard).....	\$ 90.00	Sulfathiazole.....	\$ 90.00
Flavomycin (Bambermycin).....	\$ 80.00	Sulfonamides in Feeds.....	\$ 100.00
Gainpro (Bambermycin).....	\$ 80.00	Sulfonamide Residues (in Tissue or Milk).....	\$ 150.00
Gentamicin.....	\$ 80.00	Terramycin (Oxytetracycline).....	\$ 65.00
Histostat (Nitarson).....	\$ 90.00	Tetracycline.....	\$ 65.00
Lasalocid (Avatec and Bovatec).....	\$ 125.00	Tetracycline Residues (in Tissue or Milk).....	\$ 100.00
Lincomycin.....	\$ 80.00	3 Nitro (Roxarsone).....	\$ 60.00
Monensin (Coban).....	\$ 65.00	Tylosin (Tylan).....	\$ 70.00
Narasin (Monteban).....	\$ 90.00	Virginiamycin (Stafac).....	\$ 80.00
Neomycin (Base and Sulfate).....	\$ 80.00	Zinc Bacitracin.....	\$ 75.00
Nitarson (Histostat).....	\$ 90.00	*QA Surcharge for single sample submission	Double

Chemistry-Analytical

Acid Profile(Acetic, Propionic, Butyric and Valeric)	\$ 125.00	Moisture and Volatile Matter, (Hot Plate).....	\$ 8.00
Acid Insoluble Ash.....	\$ 30.00	Moisture and Volatile Matter, (Oven).....	\$ 8.00
Acid Value.....	\$ 30.00	Moisture and Volatile Matter, (Vacuum Oven).....	\$ 25.00
Alcohol Profile (Ethyl, Methyl and Isopropyl Alc.)...	\$ 80.00	Moisture, Karl Fischer.....	\$ 35.00
Alkalinity.....	\$ 30.00	Moisture, Toluene Distillation.....	\$ 75.00
Amine Nitrogen.....	\$ 20.00	Mycotoxins-See Page 7 Below	
Amino Acid Profile (Complete).....	\$ 150.00*	Nitrates.....	\$ 60.00
Amino Acids (Each).....	\$ 75.00*	Nitrites.....	\$ 60.00
Ammoniacal Nitrogen.....	\$ 15.00	Nitrogen Solubility Index.....	\$ 50.00
Available Lysine.....	\$ 125.00	Non-Protein Nitrogen.....	\$ 50.00
BHA (Butylated Hydroxyanisole).....	\$ 65.00	Nutritional Labeling-See Page 7 Below.....	Page 7
BHT (Butylated Hydroxytoluene).....	\$ 65.00	Omega Fatty Acids.....	\$ 100.00
Boric Acid.....	\$ 65.00	pH.....	\$ 10.00
Calcium.....	\$ 15.00	Peroxide Value.....	\$ 20.00
Calcium (High Level).....	\$ 25.00	Pesticide Residues-See Page 8 Below.....	Page 8
Calories, by Bomb Calorimeter.....	\$ 55.00	Phenols.....	\$ 95.00
Chloride (as Sodium Chloride).....	\$ 15.00	Phosphates.....	\$ 35.00
Chlorophyll.....	\$ 45.00	Phosphorus.....	\$ 15.00
Cholesterol.....	\$ 65.00	Polyethylene.....	\$ 65.00
Chondroitin Sulfate.....	\$ 250.00	Propionic Acid.....	\$ 65.00
Citric Acid.....	\$ 65.00	Propylene Glycol.....	\$ 65.00
Dowtherm (Biphenyl).....	\$ 95.00	Propyl Gallate.....	\$ 65.00
Ethanol.....	\$ 65.00	Protein Dispersibility Index.....	\$ 45.00
Ethoxyquin.....	\$ 65.00	Protein Solubility.....	\$ 45.00
Ethylene Glycol.....	\$ 65.00	Proximate/Referee Analysis-See Page 8 Below....	Page 8
Fats and Oils Analysis-See Page 5 Below.....	Page 5	Salt.....	\$ 15.00
Fat by Acid Hydrolysis.....	\$ 25.00	Sand and Silica (Acid Insoluble Ash).....	\$ 30.00
Fat by Alkaline Hydrolysis.....	\$ 25.00	Sorbic Acid (Sorbate).....	\$ 65.00
Fat, Petroleum Ether Extract.....	\$ 8.00	Specific Gravity by Pycnometer.....	\$ 30.00
Fatty Acid Profile, %.....	\$ 70.00	Sterols in Edible Oils.....	\$ 150.00
Fatty Acid Profile, %, (Omega. Fatty Acids).....	\$ 100.00	Sugars-See Page 4 Below.....	Page 4
Feed Ingredient Analysis-See Page 6 Below.....	Page 6	Sugar Profile.....	\$ 80.00
Flash Point.....	\$ 20.00	Sulfate.....	\$ 50.00
Free Fatty Acids.....	\$ 15.00	Sulfur (Gravimetric Analysis).....	\$ 60.00
Glucosamine.....	\$ 100.00	Tannin.....	\$ 80.00
Hexane Residues (Headspace Analysis).....	\$ 65.00	TBHQ (Tert-Butylhydroquinone).....	\$ 65.00
Hydrocarbon Residues (Headspace Analysis).....	\$ 65.00	Thiobarbituric Acid Value.....	\$ 50.00
Inorganic Analysis (Minerals)-See Page 4 Below.....	Page 4	Tocopherols, Total.....	\$ 100.00
Loss on Drying.....	\$ 25.00	<i>trans</i> -Fatty Acids.....	\$ 100.00
Loss on Ignition.....	\$ 25.00	Vitamins-See Page 10 below.....	Page 10
Metabolizable Energy.....	\$ 50.00	Water Activity.....	\$ 32.00

*Requires the analysis of moisture, protein and fat.

Chemistry-Inorganic / Mineral Analysis

Aluminum (Al).....	\$ 20.00	Iron (Fe).....	\$ 15.00
Antimony (Sb).....	\$ 20.00	Lead (Pb).....	\$ 20.00
Arsenic (As; Arsine Generation Analysis).....	\$ 50.00	Magnesium (Mg).....	\$ 15.00
Barium (Ba).....	\$ 20.00	Manganese (Mn).....	\$ 15.00
Bismuth (Bi).....	\$ 20.00	Mercury (Hg; Cold Vapor Analysis).....	\$ 50.00
Boron (Bo).....	\$ 20.00	Nickel (Ni).....	\$ 20.00
Cadmium (Cd).....	\$ 20.00	Phosphorus (P).....	\$ 15.00
Calcium (Ca).....	\$ 15.00	Potassium (K).....	\$ 15.00
Calcium (Ca) High Level.....	\$ 25.00	Salt/Sodium Chloride (NaCl).....	\$ 15.00
Chloride (Cl).....	\$ 15.00	Selenium (Se).....	\$ 50.00
Chromium (Cr).....	\$ 20.00	Silver (Ag).....	\$ 20.00
Cobalt (Co).....	\$ 20.00	Sodium (Na).....	\$ 15.00
Copper (Cu).....	\$ 15.00	Sulfate (SO4).....	\$ 50.00
Heavy Metals Screen (Ag, As, Bi, Cd, Cu, Hg, Pb, Sb and Sn).....	\$ 60.00	Sulfur (S).....	\$ 60.00
Iodine (I).....	\$ 50.00	Tin (Sn).....	\$ 20.00
Iodine (EDDI).....	\$ 50.00	Zinc (Zn).....	\$ 15.00

*\$10 Surcharge on High Level Minerals

Chemistry-Wastewater Analysis

Ammoniacal Nitrogen.....	\$ 15.00	pH.....	\$ 10.00
APHA Color.....	\$ 30.00	Settleable Solids.....	\$ 20.00
BOD, 5-Day (Biochemical Oxygen Demand).....	\$ 20.00	Sulfate (Turbidimetric Method).....	\$ 10.00
Chlorine, (DPD Spectrophotometric Method).....	\$ 45.00	Total Dissolved Solids.....	\$ 10.00
Chlorine, (Iodometric Method).....	\$ 25.00	Total Kjeldahl Nitrogen.....	\$ 25.00
COD (Chemical Oxygen Demand).....	\$ 20.00	Total Solids.....	\$ 10.00
Glycol (Ethylene or Propylene).....	\$ 45.00	Total Suspended Solids.....	\$ 10.00
Hardness.....	\$ 25.00		
Oil and Grease.....	\$ 20.00		

Carbohydrates/Sugars

Amylose.....	\$ 75.00	Lactose.....	\$ 75.00
Brix.....	\$ 25.00	Maltose.....	\$ 75.00
Dextrose.....	\$ 75.00	Sucrose.....	\$ 75.00
Fructose.....	\$ 75.00	Sugar Profile , HPLC, (Fructose, Dextrose, Glucose, Lactose, Maltose and Sucrose).....	\$ 80.00
Glucose.....	\$ 75.00	Sugars, Total as invert.....	\$ 80.00
Invert Sugar Content, HPLC.....	\$ 80.00		

Fats and Oils

Acetone Insoluble Matter.....	\$ 25.00	Marine Oil in Vegetable Oils.....	\$ 45.00
Acid Value.....	\$ 25.00	MIU (Moisture, Insoluble Impurities and	
Alcohol Insoluble Matter.....	\$ 15.00	Unsaponifiable Matter).....	\$ 38.00
Anisidine Value.....	\$ 60.00	Moisture and Volatile Matter, (Hot Plate).....	\$ 8.00
AOM Stability, (Hours to 100 MEQ/KG).....	\$ 90.00	Moisture and Volatile Matter, (Oven).....	\$ 8.00
AOM Stability, 20 hours (MEQ/KG).....	\$ 30.00	Moisture and Volatile Matter, (Vacuum Oven).....	\$ 25.00
Bleaching Test, (Bleached Color).....	\$ 25.00	Moisture, Karl Fischer.....	\$ 35.00
BHA (Butylated Hydroxyanisole).....	\$ 65.00	Moisture, Toluene Distillation.....	\$ 50.00
BHT (Butylated Hydroxytoluene).....	\$ 65.00	Neutral Oil.....	\$ 45.00
Calories, by Bomb Calorimeter.....	\$ 55.00	Neutral Oil Loss.....	\$ 16.00
Chick Edema Factor (Dioxin Residues).....	\$ 250.00	Nickel.....	\$ 20.00
Chlorophyll, (PPM).....	\$ 50.00	Omega Fatty Acids.....	\$ 100.00
Cholesterol.....	\$ 65.00	OSI (Oil Stability Index).....	\$ 55.00
Color (FAC, Gardner or Lovibond).....	\$ 10.00	Oxidized Fatty Acids.....	\$ 60.00
Dowtherm (Biphenyl).....	\$ 90.00	Peroxide Value.....	\$ 20.00
Ethoxyquin.....	\$ 65.00	Pesticide Residues, Chlorinated Hydrocarbons	
Fat by Acid Hydrolysis.....	\$ 25.00	And PCB (USDA Method).....	\$ 90.00
Fat by Alkaline Hydrolysis.....	\$ 25.00	Pesticide Residues, Chlorinated, PCB and	
Fatty Acid Profile, %.....	\$ 70.00	Organophosphate (FDA PAM Method 304)..	\$ 125.00
Fatty Acid Profile, %, (Omega. Fatty Acids).....	\$ 100.00	Phosphorus.....	\$ 15.00
Flash Point.....	\$ 20.00	Polyethylene.....	\$ 65.00
Free Alkali.....	\$ 15.00	Propyl Gallate.....	\$ 65.00
Free Fatty Acids.....	\$ 15.00	Refined and Bleached Color.....	\$ 30.00
Glycerol (Glycerin), Free.....	\$ 45.00	Refining Loss.....	\$ 20.00
Glycerol (Glycerin), Total.....	\$ 55.00	Saponification Value.....	\$ 35.00
Gossypol, Free or Total.....	\$ 100.00	Saturated Fat (Fatty Acid Profile).....	\$ 65.00
Halphen Test. for Detecting Cottonseed Oil.....	\$ 35.00	Smoke Point.....	\$ 20.00
Hexane Insoluble Matter.....	\$ 25.00	Solid Fat Index.....	\$ 100.00
Hexane Residues in Fats and Oils.....	\$ 65.00	Soap.....	\$ 20.00
Hydroxyl Value.....	\$ 40.00	Specific Gravity by Pycnometer.....	\$ 30.00
Insoluble Impurities.....	\$ 10.00	Sterols in Edible Oils.....	\$ 150.00
Iodine Value.....	\$ 30.00	Sulfur (Gravimetric Analysis).....	\$ 60.00
Lecithin, (Soy) Phospholipid Content, HPLC		TBHQ (Tert-Butylhydroquinone).....	\$ 65.00
(Phosphatidylcholine, Phosphatidic acid,		Titer.....	\$ 30.00
Phosphatidylinositol and		Tocopherols, Total.....	\$ 100.00
Phosphatidylethanolamine).....	\$ 220.00*	Total Fatty Acids.....	\$ 30.00
Lecithin, (Phosphatidylcholine), HPLC.....	\$ 60.00	<i>trans</i> -Fatty Acids.....	\$ 100.00
Lecithin , (Calculated from Phosphorus Content)..	\$ 25.00	Unsaponifiable Matter.....	\$ 20.00
Lovibond Color.....	\$ 10.00	Viscosity (Brookfield).....	\$ 50.00

*Method Set-Up Charge May Apply

Feed / Ingredient Analysis

Acid Detergent Fiber.....	\$ 35.00	Nitrates.....	\$ 60.00
Acid Insoluble Ash.....	\$ 25.00	Nitrites.....	\$ 60.00
Acids, Volatile (Acetic, Propionic, Butyric, Valeric)	\$ 65.00 EA	Nitrogen.....	\$ 8.00
Alimet.....	\$ 75.00	Nitrogen Free Extract.....	\$ 30.00 **
Amino Acid Profile (Including Tryptophan).....	\$ 150.00*	Nitrogen Solubility Index (NSI).....	\$ 50.00
Amino Acid, Each.....	\$ 75.00	Non Protein Nitrogen (Urea).....	\$ 50.00
Antioxidants, Each (BHA, BHT, TBHQ, ETHOX.)	\$ 60.00	Pepsin Digestibility, AOAC (0.2% Pepsin).....	\$ 30.00
AOM of Extracted Fat.....	\$ 40.00	Pepsin Digestibility, (0.02% Pepsin).....	\$ 30.00
Ash.....	\$ 8.00	Pepsin Digestibility, (0.002% Pepsin).....	\$ 30.00
BHA.....	\$ 65.00	Pepsin Digestibility, Torry Meth, (0.0002% Pepsin)..	\$ 30.00
BHT.....	\$ 65.00	Peroxide Value of Extracted Fat.....	\$ 30.00
Calcium.....	\$ 15.00	Pesticide Residues, Chlorinated Hydrocarbons And PCB (USDA Method).....	\$ 90.00
Carbohydrates (Calculation).....	\$ 26.00**	Pesticide Residues, Chlorinated, PCB and Organophosphate (FDA PAM Method 304)..	\$ 125.00
Calories, by Bomb Calorimeter (Gross Energy)....	\$ 55.00	pH Rise (Urease Activity).....	\$ 8.00
Calories (Atwater Calculation).....	\$ 26.00**	Phosphorus.....	\$ 15.00
Chloride.....	\$ 15.00	Propionic Acid.....	\$ 65.00
Chondroitin Sulfate.....	\$ 250.00	Protein.....	\$ 8.00
Citric Acid.....	\$ 55.00	Protein Dispersibility Index (PDI).....	\$ 45.00
Crude Fiber.....	\$ 8.00	Protein Solubility (in 0.2% KOH).....	\$ 45.00
Crude Protein.....	\$ 8.00	<u>Proximate Package</u> (Moisture in combination with protein, fat, fiber, ash and/or pH rise)	
Ethoxyquin.....	\$ 65.00	• Moisture and one test.....	\$ 8.00
Extraction Charge (When Applicable).....	\$ 10.00	• Moisture and two tests.....	\$ 12.00
Fat (Ether Extract).....	\$ 8.00	• Moisture and three tests.....	\$ 16.00
Fat, by Acid Hydrolysis.....	\$ 25.00	• Moisture and four tests.....	\$ 20.00
Fiber, Crude.....	\$ 8.00	• Moisture and five tests.....	\$ 24.00
Glucosamine.....	\$ 100.00	Salt/Sodium.....	\$ 15.00
Gross Energy (Bomb Calorimetry).....	\$ 50.00	Starch.....	\$ 60.00
Metabolizable Energy (Calculation).....	\$ 30.00***	Sugar, Total as Invert.....	\$ 80.00
Methionine Hydroxy Analog (MHA).....	\$ 50.00	Sugar Profile.....	\$ 80.00
Microscopic Analysis.....	\$ 150.00	TBHQ.....	\$ 60.00
Moisture, Karl Fischer.....	\$ 35.00	TDN (Total Digestible Nutrients).....	\$ 30.00
Moisture, Oven, 101C.....	\$ 8.00	Urea (Non Protein Nitrogen).....	\$ 50.00
Moisture, Oven, 130C.....	\$ 8.00	Urease Activity (pH Rise).....	\$ 8.00
Moisture, Vacuum Oven.....	\$ 30.00	Vitamins-See Page 9 Below.....	Page 9
Mycotoxins-See Page 7 Below.....	Page 7	Water Activity.....	\$ 32.00
Net Energy (NEG, NEL or NEM).....	\$ 60.00	Xanthophylls, Total.....	\$ 60.00
Nitrate and Nitrite Nitrogen.....	\$ 60.00		

*Requires the analysis of moisture, protein and fat.

**Calculated from values obtained in the analysis of moisture, protein, fat and ash.

***Calculated from values obtained in the analysis of moisture, protein, fat, ash and fiber.

Microbiology

Aerobic Plate Count.....	\$ 15.00	Flat Sour Spores.....	\$ 40.00
Aerobic Plate Count, Environmental Monitoring....	\$ 7.50	Lactic Acid Bacteria.....	\$ 25.00
Aerobic Plate Count, Membrane Filter.....	\$ 15.00	Listeria (ELISA).....	\$ 25.00
Aerobic Plate Count, USP.....	\$ 17.50	Confirmation-Speciation.....	\$ 15.00
Anaerobic Plate Count.....	\$ 20.00	Listeria (Cultural, FDA-USDA).....	\$ 15.00
Bacillus cereus.....	\$ 20.00	Mesophilic Aerobic Sporeformers.....	\$ 40.00
Confirmation.....	\$ 20.00	Mesophilic Anaerobic Sporeformers.....	\$ 50.00
Bacterial Identification.....	POR	Mold Count.....	\$ 20.00
Campylobacter (Presence/Absence).....	\$ 30.00	Mold Identification to Genus.....	\$ 40.00
Confirmation.....	\$ 15.00	Mold Identification to Species.....	POR
Campylobacter in Rinses.....	\$ 15.00	Osmophilic Yeast.....	\$ 30.00
Challenge Testing.....	POR	Plate Count, Aerobic.....	\$ 15.00
Clostridium perfringens (Count).....	\$ 15.00	Plate Count, Anaerobic.....	\$ 20.00
Confirmation.....	\$ 40.00	Plate Count, Total.....	\$ 15.00
Clostridium perfringens (Presence/Absence).....	\$ 15.00	Preservative Effectiveness (USP <51>).....	POR
Confirmation.....	\$ 20.00	Pseudomonas aeruginosa (USP <61>).....	\$ 25.00
Coliforms (AOAC, MPN).....	\$ 17.50	Pseudomonas Plate Count.....	\$ 15.00
Coliforms (BAM, MPN).....	\$ 15.00	Species Identification.....	\$ 5.00
Confirmation.....	\$ 5.00	Psychrophilic Plate Count.....	\$ 15.00
Coliforms (Membrane Filter).....	\$ 20.00	Rope Spores.....	\$ 40.00
Coliforms (PetriFilm).....	\$ 10.00	Salmonella (ELISA).....	\$ 25.00
Coliforms (VRB).....	\$ 15.00	Salmonella (Cultural, FDA-USDA).....	\$ 15.00
E. coli (AOAC, MPN).....	\$ 17.50	Salmonella in Biosolids (EPA 503).....	\$ 200.00
E. coli (BAM, MPN).....	\$ 15.00	Salmonella (Immunocapture).....	\$ 30.00
Confirmation.....	\$ 30.00	Confirmation.....	\$ 10.00
E. coli (Membrane Filter).....	\$ 20.00	Salmonella Serotype.....	\$ 25.00
E. coli (PetriFilm).....	\$ 10.00	Shigella.....	\$ 40.00
E. coli (USP Microbial Limits <61>).....	\$ 37.50	Confirmation.....	\$ 35.00
E. coli (VRB).....	\$ 15.00	Standard Plate Count.....	\$ 15.00
E. coli O157:H7 (ELISA).....	\$ 30.00	Staphylococcus aureus (BAM).....	\$ 15.00
Confirmation.....	\$ 30.00	Confirmation.....	\$ 15.00
Enterobacteriaceae.....	\$ 20.00	Staphylococcus aureus (PetriFilm).....	\$ 10.00
Fecal Coliforms.....	\$ 20.00	Thermophilic Plate Count.....	\$ 15.00
Confirmation.....	\$ 5.00	Total Plate Count.....	\$ 15.00
Fecal Coliforms in Biosolids (EPA 503).....	\$ 40.00	Water Potability.....	\$ 50.00
Fecal Streptococci.....	\$ 20.00	Yeast Count.....	\$ 20.00
Confirmation.....	\$ 5.00	Yeast and Mold Count.....	\$ 20.00

Mycotoxins

Aflatoxin (ELISA/Neogen).....	\$ 45.00	Ochratoxin (ELISA/Neogen).....	\$ 45.00
DON (Vomitoxin)/ (ELISA/Neogen).....	\$ 45.00	T2 Toxin (ELISA/Neogen).....	\$ 45.00
Fumonisin (ELISA/Neogen).....	\$ 45.00	Zearalenone (F2 Toxin)/(ELISA/Neogen).....	\$ 45.00
		Vomitoxin (DON)/ (ELISA/Neogen).....	\$ 45.00

Nutritional Labeling

Nutritional Labeling-Chemical Analysis.....	\$ 575.00	Calcium.....	\$ 15.00
(Calories, calories from fat, total fat, saturated Fat, cholesterol, sodium, total carbohydrates, sugars, dietary fiber, protein, vitamin A, vitamin C, calcium, and iron.)		Calories (Calculation).....	NC*
		Calories from Fat (Calculation).....	NC**
Nutritional Labeling-Database Report.....	\$ 150.00	Cholesterol.....	\$ 60.00
Moisture.....	\$ 8.00	Iron.....	\$ 15.00
Fat (Acid or Alkaline Hydrolysis).....	\$ 25.00	Salt.....	\$ 15.00
Protein.....	\$ 8.00	Saturated Fat.....	\$ 65.00
Ash.....	\$ 8.00	Sodium.....	\$ 15.00
Sample Preparation Fee (If Necessary).....	\$ 25.00	Sugar Profile.....	\$ 80.00
Carbohydrates (Calculation).....	NC*	Total Dietary Fiber.....	\$ 100.00
		<i>trans</i> -Fatty Acids.....	\$ 100.00
		Vitamin A, Total (Retinol and Beta Carotene).....	\$ 100.00
		Vitamin C (Ascorbic Acid).....	\$ 60.00

*Calculated from values obtained in the analysis of moisture, protein, fat and ash. **Calculated from value obtained in the analysis of fat

Pesticide Residues

Carbamate Pesticide Residue (Single Residue)....	\$ 200.00*	<u>Multi-Residue Methods</u>	
Chick Edema Factor (Dioxin Residue).....	\$ 250.00	• Carbamate Pesticides, (FDA Method 401)...	\$ 200.00
Chlorinated Pesticide Residue, (Single Residue)...	\$ 125.00*	• Chlorinated Pesticides and PCB (USDA Method).....	\$ 90.00
Chlorophenoxy Herbicides (2,4-D or 2,4,5-T).....	\$ 150.00*	• Chlorinated and Organophosphate Pesticides and PCB (FDA Method 303/Non Fatty Foods or FDA Method 304/Fatty Foods).....	\$ 125.00**
Dowtherm (Biphenyl).....	\$ 90.00	• FDA Automatic Detention Pesticide Residue (FDA Method 303/Non Fatty Foods or FDA Method 304/Fatty Foods).....	\$ 350.00**
Ethylene Bis Dithiocarbamates, Total (EBDC).....	\$ 125.00*	• Organophosphate Pesticides (FDA Method 303/Non Fatty Foods or 304/Fatty Foods)...	\$ 125.00**
GMP Documentation Surcharge.....	100%	• Pesticide Residues, FDA Luke Procedure, (FDA PAM Method 302).....	\$ 275.00
Organonitrogen Pesticide Residue (Single Res.)..	\$ 125.00*	**Surcharge for Oilseed Matrix (FDA Method 304)	\$ 50.00
Organophosphorus Pesticide (Single Residue)....	\$ 125.00*		
Pyrethrin Residues.....	\$ 125.00		
USP Foreign Substances (In Lanolin).....	\$ 175.00		

*Method Set Up Charge May Apply

Referee / Proximate Analysis

Acid Detergent Fiber.....	\$ 35.00	<u>Proximate Package</u> (Moisture in combination	
Amino Acid Profile (Including Tryptophan).....	\$ 150.00*	With protein, fat, fiber, ash and/or pH rise)	
Amino Acid, Each.....	\$ 75.00	• Moisture and one test.....	\$ 8.00
Ash.....	\$ 8.00	• Moisture and two tests.....	\$ 12.00
Fat.....	\$ 8.00	• Moisture and three tests.....	\$ 16.00
Fiber.....	\$ 8.00	• Moisture and four tests.....	\$ 20.00
Microscopic Analysis.....	\$ 150.00	• Moisture and five tests.....	\$ 24.00
Moisture.....	\$ 8.00		
Nitrogen Free Extract.....	\$ 30.00	<u>Referee Analysis</u> (AOCS)	
Nitrogen.....	\$ 8.00	• Referee Protein.....	\$ 18.00
Nitrogen Solubility Index (NSI).....	\$ 50.00	• Referee Fiber.....	\$ 18.00
Non Protein Nitrogen (Urea).....	\$ 50.00	• Referee Moisture.....	\$ 14.00
pH Rise (Urease Activity).....	\$ 8.00	• Referee Moisture and Protein.....	\$ 18.00
Protein.....	\$ 8.00	• Referee Moisture and Fiber.....	\$ 18.00
Pepsin Digestibility, AOAC (0.2% Pepsin).....	\$ 30.00	• Referee Protein, Fiber.....	\$ 22.00
Pepsin Digestibility, (0.02% Pepsin).....	\$ 30.00	• Referee Moisture, Protein and Fiber.....	\$ 22.00
Pepsin Digestibility, (0.002% Pepsin).....	\$ 30.00		
Pepsin Digestibility, Torry Meth, (0.0002% Pepsin)	\$ 30.00	TDN (Total Digestible Nutrients).....	\$ 30.00
		Urea (Non Protein Nitrogen).....	\$ 50.00
		Urease Activity (pH Rise).....	\$ 8.00

Russian Export Testing

Antibiotics/Drugs:		Arsenic (Organic Arsenicals).....	\$ 50.00
Bacitracin.....	\$ 80.00	Heavy Metals (Cadmium, Lead, Mercury).....	\$ 90.00
Bambermycin.....	\$ 80.00	Listeria Monocytogenes.....	\$ 25.00
Chloramphenicol.....	\$ 80.00	Salmonella.....	\$ 25.00
Enrofloxacin.....	\$ 80.00	Plate Count.....	\$ 15.00
Erythromycin.....	\$ 80.00	Chlorinated Pesticides.....	\$ 90.00
Gentamicin.....	\$ 80.00		
Lincomycin.....	\$ 80.00		
Neomycin.....	\$ 80.00		
Penicillin.....	\$ 80.00		
Spectinomycin.....	\$ 80.00		
Streptomycin.....	\$ 80.00		
Sulfonamides (each).....	\$ 90.00		
Sulfonamides (screen).....	\$ 100.00		
Tetracycline Screen.....	\$ 90.00		
Tylosin.....	\$ 80.00		
Virginiamycin.....	\$ 80.00		

Barrow-Agee Laboratories is currently accepted and certified by the United States Department of Agriculture, Agricultural Marketing Service for the Laboratory Verification Program for the Analysis of Poultry Products Destined for Exportation from the United States to Russia in the following areas: Pesticides, Heavy Metals, Antibiotics, Salmonella and Listeria Monocytogenes.

Vitamins

Ascorbic Acid (Vitamin C).....	\$ 60.00	Vitamin A, Total (Retinol and Beta Carotene).....	\$ 100.00
Beta Carotene.....	\$ 70.00	Vitamin A, True (Retinol).....	\$ 70.00
Biotin.....	\$ 80.00	Vitamin A Acetate or Palmitate.....	\$ 70.00
Choline Chloride.....	\$ 100.00	Vitamin B1 (Thiamin).....	\$ 55.00
Folic Acid.....	\$ 90.00	Vitamin B2 (Riboflavin).....	\$ 55.00
Menadione, (Vitamin K; MSBC; MPB).....	\$ 85.00	Vitamin B6 (Pyridoxine).....	\$ 80.00
Niacin/ Niacinamide (Nicotinic Acid/Amide).....	\$ 55.00	Vitamin B12 (Cyanocobalamin).....	\$ 80.00
Pantothenic Acid.....	\$ 80.00	Vitamin C (Ascorbic Acid).....	\$ 60.00
Pyridoxine (Vitamin B6)	\$ 80.00	Vitamin D (D2, D3, Cholecalciferol).....	\$ 275.00
Riboflavin (Vitamin B2).....	\$ 55.00	Vitamin E Acetate (Tocopheryl Acetate).....	\$ 100.00
Thiamine (Vitamin B1).....	\$ 55.00	Vitamin E, Total, Alpha, Beta, Delta and Gamma	\$ 100.00
Tocopherols, Total, Alpha, Beta, Delta & Gamma	\$ 100.00	Vitamin K (Menadione, MSBC, MPB).....	\$ 85.00
Tocopherol, Alpha / Tocopheryl Acetate.....	\$ 100.00	Xanthophyll.....	\$ 60.00

USP/FCC/Cosmetics

Acetaminophen Assay, USP.....	POR	Lecithin, (Soy) Phospholipid Content, HPLC	POR
Acid Value (Free Fatty Acids), USP 401.....	POR	Limit of Non Volatile Residue, USP.....	POR
Arsenic, USP 211.....	POR	Limit of Preservative, USP(Hydrogen Peroxide)....	POR
Aspirin Assay, USP.....	POR	Loss on Drying, USP 731.....	POR
Betaine HCL Assay, USP.....	POR	Mono and Di-glycerides Assay, NF.....	POR
Caffeine Assay, USP.....	POR	Mustard Oil.....	POR
Camphor Assay, GLC.....	POR	Organic Volatile Impurities, USP 467.....	POR
Chloride Limit Test, USP 221.....	POR	Oxalate, USP 191,(Identification).....	POR
Citric Acid Assay, USP.....	POR	Peroxide, USP.....	POR
Cottonseed Oil, USP.....	POR	pH, USP 791.....	POR
Crystallinity, USP 695.....	POR	Propyl Paraben.....	POR
Diphenhydramine HCL, USP.....	POR	Readily Carbonizable Substances Test, USP 271	POR
Epianhydrotetracycline, USP 226.....	POR	Refractive Index, USP 831.....	POR
Eucalyptus Oil.....	POR	Residue on Evaporation, FCC.....	POR
Fatty Acid Composition, USP.....	POR	Residue on Ignition, USP 281.....	POR
Free Fatty Acids, USP 401.....	POR	Salicylamide.....	POR
Free Glycerin Assay, NF.....	POR	Salicylic Acid.....	POR
Free Salicylic Acid.....	POR	Saponification Value, USP 401.....	POR
Heavy Metals, as Lead, USP 231 (Ag, As, Bi, Cd, Cu, Hg,Pb, Sb and Sn).....	POR	Sodium Benzoate.....	POR
Hydrogen Peroxide Assay, USP.....	POR	Specific Gravity, USP 841.....	POR
Hydroxyl Value, USP 401.....	POR	Sulfate Limit Test, USP 221.....	POR
Identification, USP 191, per test.....	POR	Sunscreens, per ingredient.....	POR
Infrared Absorption, USP 197.....	POR	Unsaponifiable Matter, USP 401.....	POR
Iodine Value, USP 401.....	POR	USP Foreign Substances (In Lanolin).....	POR
Iron Limit Test, USP 241.....	POR	Ultraviolet Absorption, USP 197.....	POR
		Water, USP 921 (Method I / Karl Fischer).....	POR

*POR – Priced on Request

*Method Set Up Charge Applies