

**BARROW-AGEE
LABORATORIES, LLC**



1555 THREE PLACE • MEMPHIS, TN 38116-3507 • (901) 332-1590 • FAX (901) 398-1518

2009 PRICE SCHEDULE

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www.balabs.com

Prices are subject to change without notice.

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TABLE OF CONTENTS

INTRODUCTION.....	1
FREQUENTLY ASKED QUESTIONS.....	2
CERTIFICATIONS, ACCREDITATIONS AND AFFILIATIONS.....	4
CHEMISTRY-ANALYTICAL	5
CHEMISTRY-INORGANIC / MINERAL ANALYSIS	6
CARBOHYDRATES/SUGARS	6
DRUG AND ANTIBIOTIC RESIDUES IN TISSUE	6
FATS AND OILS.....	7
FEED / INGREDIENT ANALYSIS.....	8
MICROBIOLOGY.....	9
MYCOTOXINS.....	10
NUTRITIONAL LABELING.....	10
PESTICIDE RESIDUES.....	10
REFEREE / PROXIMATE ANALYSIS	11
RUSSIAN EXPORT TESTING	11
VITAMINS	12
USP/FCC.....	12

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INTRODUCTION

MISSION STATEMENT

Barrow-Agee Laboratories is committed to uncompromised analytical solutions and quality systems that combine to provide the highest confidence in the data reported to our valued clients. Our scientists provide strategic benefits to our customers through the use of approved methodology, responsive technical support and efficient client services.

COMPANY PROFILE

In business since 1917, Barrow-Agee Laboratories has earned a national reputation as the industry's technical resource partner with comprehensive and responsive analytical capabilities. Trained scientists, using current technology and official methodology, perform complete food chemistry, food safety, nutritional and microbiological analytical services. Barrow-Agee is a registered Drug Establishment with the U.S. Food and Drug Administration and follows current **Good Manufacturing Practices (cGMP)** Regulations, which provide recommendations for quality control, test characterization, document control 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 for over 90 continuous years.

QUALITY STATEMENT

Barrow-Agee Laboratories is committed to the administration of a quality system that ensures the integrity of analytical data. Barrow-Agee Laboratories maintains a quality assurance unit responsible for monitoring the overall operations and testing procedures in the laboratory. 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.

CONFIDENTIALITY

All results, information and reports are strictly confidential and the property of the client contracting the services of Barrow-Agee Laboratories. No results, information or reports are released to a third party without the written permission of the client. Access to Barrow-Agee Laboratories is limited to authorized personnel and strict confidentiality is maintained in all interactions with clients. Mutual non-disclosure agreements are executed upon request.

Effective 3/31/2009

Visa and MasterCard Accepted

PAYMENT TERMS AND CREDIT POLICY: Prepayment or credit application is required to establish a new account. Payment terms are net 30 days of invoice date. A 1½ % per month late charge may be added to all unpaid balances. Delinquent accounts may be served on a C.O.D. basis. 100% Surcharge may apply for single sample submission. All prices are subject to change without notice.

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SAMPLE SUBMISSION RECOMMENDATIONS

Samples should be submitted with detailed information provided on the Barrow-Agee Laboratories Sample Submission Form (available online at www.balabs.com), or on company letterhead or purchase order. When submitting samples, please provide all sample identification information, along with the specific tests to be performed and estimated expected levels. Perishable samples should be packed with ice packs or dry ice in coolers and shipped priority overnight for weekday delivery. Coolers will be returned at client's expense upon request. Hazardous samples will be returned to the client for proper disposal. Non perishable 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.

FREQUENTLY ASKED QUESTIONS

1. Does Barrow-Agee Laboratories have a Quality System?

Barrow-Agee Laboratories has a formalized corporate quality program to ensure that each laboratory maintains the highest standards of quality. Barrow-Agee practices extensive quality control procedures and participates in Proficiency Check Sample programs sponsored by AAFCO, AOCS, API and the USDA.

2. Do you have a formal corrective action and preventative action documentation policy?

Yes, we have a formal policy for documentation of corrective action, preventative action and out of specification investigation.

3. What is your turn-around time?

Our standard turn-around time is typically five business days from receipt of the sample. Exceptions will occur for non-routine analysis and outsourced testing.

4. Do you offer "Rush" analytical services?

We offer several options for "rush" turn-around time. If you require expedited turn-around time, please indicate on your sample submission form. A surcharge will apply to "rush" service to account for the non-routine processing of expedited analysis.

5. Can I receive my results by email/fax/phone?

Barrow-Agee provides phone, fax or email report results at no extra charge. Other requests for specialized reporting will be considered and extra charges may apply depending on the complexity of the request.

6. Are there any additional charges for verbal results phoned to my attention upon completion?

Results are verbally reported to our clients upon request and there are no additional charges for this service.

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7. Are there additional charges for creating revised reports or reprinting of archived reports?

There is no charge for a revised report that is the result of omitted information by Barrow-Agee Laboratories or re-evaluated data. There is no charge for reprinting archived reports within 90 days of original reporting date. A fee of \$25 is charged for the reproduction of any report from our data archive after 90 days from the original report date. A fee of \$25.00 is charged for any report that is revised to include information that is supplied or requested by the client after the results have been reported.

8. Is our analysis performed under strict confidentiality?

All analysis is performed under strict confidentiality to protect the privacy of each client. This confidentiality policy ensures that no client information is given to third parties without the written authorization from the client.

9. Will Barrow-Agee sign a confidentiality agreement with our company?

Barrow-Agee Laboratories regularly receives confidential information and will sign confidentiality or mutual non-disclosure agreements with our clients upon review by the management team.

10. Do we qualify for a discount if the sample submission will occur at regular intervals?

A discount based on testing volume may be approved upon review by the management team. Please contact our Director of Sales and Marketing for more details.

11. Is shipping included in the price of analysis?

Shipping is not included in the price of analysis.

12. Who is my contact at Barrow-Agee Laboratories?

Your contact is Jim Bell, Director of Sales and Marketing (901-332-1590). In addition to that, the laboratory supervisors and the receptionists are always available for complete support.

13. Are you a publicly traded company in the United States?

Barrow-Agee Laboratories is a privately held, independent contract testing organization.

14. Is Barrow-Agee Laboratories accredited or certified?

Barrow-Agee Laboratories maintains a variety of certifications, accreditations and professional memberships (Please see Certifications, Accreditations and Affiliations on page 4 of this price schedule).

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2009 PRICE SCHEDULE

CERTIFICATIONS, ACCREDITATIONS AND AFFILIATIONS

- AOCS Certified Laboratory
- Florida Dept. of Ag. Certified Feed Lab for Nutrients, Mycotoxins and Micro-organisms.
- USDA Accredited for Chlorinated Hydrocarbon Pesticides
- USDA AMS Laboratory Verification Program for the Analysis of Poultry Products Exported to Russia
- USDA APHIS Registered Laboratory
- AOCS Approved Chemist (Oilseed Meal and Soybean Oil)
- Member of the AOAC International
- Member of the International Association for Food Protection
- Member of the American Oil Chemists Society
- Member of the Institute of Food Technologists
- 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

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

- AAFCO Feed Check Sample
- AOCS Smalley Series-Soybean Oil
- AOCS Smalley Series-Oilseed Meal
- USDA Accredited Laboratory Program-Chlorinated Hydrocarbon Pesticides
- American Proficiency Institute (API)-Microbiology

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Chemistry-Analytical

Alkalinity.....	\$ 30.00	Moisture and Volatile Matter, (Hot Plate).....	\$ 8.00
Acid Profile(Acetic, Propionic, Butyric and Valeric)	\$ 125.00	Moisture and Volatile Matter, (Oven).....	\$ 8.00
Acid Insoluble Ash.....	\$ 30.00	Moisture and Volatile Matter, (Vacuum Oven).....	\$ 25.00
Acid Value.....	\$ 30.00	Moisture, Karl Fischer.....	\$ 35.00
Alcohol Profile (Ethyl, Methyl and Isopropyl Alc.)...	\$ 75.00	Nitrates.....	\$ 75.00
Amine Nitrogen.....	\$ 25.00	Nitrites.....	\$ 75.00
Amino Acid Profile (Complete).....	\$ 200.00	Nitrogen Solubility Index (NSI)	\$ 50.00
Amino Acids (Each).....	\$ 75.00	Non-Protein Nitrogen.....	\$ 50.00
Available Lysine.....	\$ 150.00	Nutritional Labeling (Genesis Database).....	\$ 150.00
BHA (Butylated Hydroxyanisole).....	\$ 70.00	Omega Fatty Acids (% by Weight).....	\$ 225.00
BOD, 5-Day (Biochemical Oxygen Demand).....	\$ 25.00	Omega Fatty Acids (% Relative).....	\$ 100.00
BHT (Butylated Hydroxytoluene).....	\$ 70.00	Peroxide Value.....	\$ 20.00
Calories, by Bomb Calorimeter.....	\$ 55.00	Pesticide Residues-See Pg 10	
Calcium.....	\$ 15.00	pH.....	\$ 10.00
Ammoniacal Nitrogen.....	\$ 15.00	Phosphates.....	\$ 35.00
Calcium (High Level).....	\$ 25.00	Phosphorus.....	\$ 15.00
Chloride (as Sodium Chloride).....	\$ 15.00	Phosphorus in Oil	\$ 30.00
Cholesterol.....	\$ 70.00	Polyethylene.....	\$ 80.00
Chondroitin Sulfate.....	\$ 250.00	Propionic Acid.....	\$ 70.00
COD (Chemical Oxygen Demand).....	\$ 25.00	Propyl Gallate.....	\$ 70.00
Citric Acid.....	\$ 70.00	Propylene Glycol.....	\$ 70.00
Ethanol.....	\$ 65.00	Protein-See Referee/Proximate Analysis on Pg 10	
Ethoxyquin.....	\$ 70.00	Protein Dispersibility Index (PDI).....	\$ 50.00
Ethylene Glycol.....	\$ 70.00	Protein Solubility.....	\$ 50.00
Fat by Acid Hydrolysis.....	\$ 25.00	Salt.....	\$ 15.00
Boric Acid.....	\$ 65.00	Sand and Silica (Acid Insoluble Ash).....	\$ 30.00
Fat by Alkaline Hydrolysis.....	\$ 25.00	Settleable Solids.....	\$ 20.00
Fat, Petroleum Ether Extract.....	\$ 8.00	Sorbic Acid (Sorbate).....	\$ 75.00
Fatty Acid Profile, % Relative.....	\$ 75.00	Specific Gravity.....	\$ 30.00
Fatty Acid Profile, % by Weight.....	\$ 225.00	Sterols in Edible Oils.....	\$ 150.00
Flash Point.....	\$ 70.00	Sugar Profile.....	\$ 80.00
Free Fatty Acids.....	\$ 15.00	Sulfate.....	\$ 75.00
Glucosamine.....	\$ 150.00	Sulfur (Gravimetric Analysis).....	\$ 75.00
Hexane Residues (Headspace Analysis).....	\$ 70.00	TBHQ (Tert-Butylhydroquinone).....	\$ 70.00
Hydrocarbon Residues (Headspace Analysis).....	\$ 70.00	Thiobarbituric Acid Value.....	\$ 75.00
Chlorine, (Iodometric Method).....	\$ 25.00	Tocopherols, Total.....	\$ 100.00
Chlorophyll.....	\$ 50.00	Total Dissolved Solids.....	\$ 15.00
Dowtherm (Biphenyl).....	\$ 150.00	Total Kjeldahl Nitrogen.....	\$ 25.00
Hardness (Water).....	\$ 25.00	Total Solids.....	\$ 15.00
Loss on Ignition.....	\$ 35.00	Total Suspended Solids.....	\$ 15.00
Loss on Drying.....	\$ 25.00	<i>trans</i> -Fatty Acids (% by Weight).....	\$ 225.00
Metabolizable Energy.....	\$ 50.00	<i>trans</i> -Fatty Acids (% Relative).....	\$ 150.00
		Water Activity.....	\$ 50.00

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Chemistry-Inorganic / Mineral Analysis

Aluminum (Al).....	\$ 20.00	Lead (Pb).....	\$ 20.00
Antimony (Sb).....	\$ 20.00	Magnesium (Mg).....	\$ 15.00
Arsenic (As).....	\$ 50.00	Manganese (Mn).....	\$ 15.00
Barium (Ba).....	\$ 20.00	Mercury (Hg).....	\$ 50.00
Bismuth (Bi).....	\$ 20.00	Nickel (Ni).....	\$ 20.00
Boron (Bo).....	\$ 30.00	Phosphorus (P).....	\$ 15.00
Cadmium (Cd).....	\$ 20.00	Phosphorus in Oil	\$ 30.00
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).....	\$ 75.00
Heavy Metals (Cadmium, Lead and Mercury)	\$ 90.00	Sulfur (S).....	\$ 75.00
Iodine (I).....	\$ 200.00	Tin (Sn).....	\$ 20.00
Iron (Fe).....	\$ 15.00	Zinc (Zn).....	\$ 15.00

Carbohydrates/Sugars

Brix.....	\$ 35.00	Maltose.....	\$ 80.00
Dextrose.....	\$ 80.00	Sucrose.....	\$ 80.00
Fructose.....	\$ 80.00	Sugar Profile , HPLC, (Fructose, Dextrose, Glucose, Lactose, Maltose and Sucrose).....	\$ 80.00
Glucose.....	\$ 80.00	Sugars, Total as invert.....	\$ 80.00
Invert Sugar Content.....	\$ 80.00		
Lactose.....	\$ 80.00		

Drug and Antibiotic Residues in Tissue

Arsenic.....	\$ 60.00	Roxarsone (3 Nitro).....	\$ 60.00
Aureomycin (Chlortetracycline).....	\$ 125.00	Spectinomycin.....	\$ 85.00
Bacitracin	\$ 90.00	Streptomycin.....	\$ 85.00
Bambermycin (Flavomycin and Gainpro).....	\$ 85.00	Sulfadimethoxine.....	\$ 150.00
Chloramphenicol.....	\$ 85.00	Sulfamethazine.....	\$ 150.00
Chlortetracycline (Aureomycin).....	\$ 125.00	Sulfaquinoxaline.....	\$ 150.00
Enrofloxacin.....	\$ 85.00	Sulfathiazole.....	\$ 150.00
Erythromycin.....	\$ 90.00	Sulfonamide Residues	\$ 150.00
Flavomycin (Bambermycin).....	\$ 85.00	Terramycin (Oxytetracycline).....	\$ 125.00
Gainpro (Bambermycin).....	\$ 85.00	Tetracycline.....	\$ 125.00
Gentamicin.....	\$ 85.00	3 Nitro (Roxarsone).....	\$ 60.00
Lincomycin.....	\$ 85.00	Tylosin (Tylan).....	\$ 85.00
Neomycin	\$ 85.00	Virginiamycin (Stafac).....	\$ 85.00
Oxytetracycline (Terramycin).....	\$ 125.00	Zinc Bacitracin.....	\$ 85.00
Penicillin.....	\$ 85.00		

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Fats and Oils

Acetone Insoluble Matter.....	\$ 25.00	Moisture and Volatile Matter, (Hot Plate).....	\$ 8.00
Acid Value.....	\$ 30.00	Moisture and Volatile Matter, (Oven).....	\$ 8.00
Alcohol Insoluble Matter.....	\$ 25.00	Moisture and Volatile Matter, (Vacuum Oven).....	\$ 25.00
Anisidine Value.....	\$ 60.00	Moisture, Karl Fischer.....	\$ 35.00
AOM Stability, (Hours to 100 MEQ/KG).....	\$ 90.00	Mono, Di and/or Triglycerides.....	\$ 100.00
AOM Stability, 20 hours (MEQ/KG).....	\$ 30.00	Neutral Oil.....	\$ 45.00
Bleaching Test, (Bleached Color).....	\$ 25.00	Neutral Oil Loss.....	\$ 18.00
BHA (Butylated Hydroxyanisole).....	\$ 70.00	Nickel.....	\$ 20.00
BHT (Butylated Hydroxytoluene).....	\$ 70.00	Omega Fatty Acids, % Relative.....	\$ 100.00
Calories, by Bomb Calorimeter.....	\$ 55.00	Omega Fatty Acids, % by Weight.....	\$ 225.00
Chick Edema Factor (Dioxin Residues).....	\$ 250.00	OSI (Oil Stability Index).....	\$ 60.00
Chlorophyll, (PPM).....	\$ 50.00	Oxidized Fatty Acids.....	\$ 60.00
Cholesterol.....	\$ 70.00	Peroxide Value.....	\$ 20.00
Color (FAC, Gardner or Lovibond).....	\$ 15.00	Pesticide Residues, Chlorinated Hydrocarbons And PCB (USDA Method).....	\$ 100.00
Dowtherm (Biphenyl).....	\$ 150.00	Pesticide Residues, Chlorinated, PCB and Organophosphate (FDA PAM Method 304)....	\$ 155.00
Erucic Acid, % Relative.....	\$ 75.00	Phosphorus.....	\$ 15.00
Ethoxyquin.....	\$ 70.00	Phosphorus in Oil	\$ 30.00
Fat (By Acid Hydrolysis).....	\$ 25.00	Polar Compounds in Fat	\$ 100.00
Fat (By Alkaline Hydrolysis).....	\$ 25.00	Polyethylene.....	\$ 100.00
Fatty Acids in Fish Oil (EPA and DHA), Weight %	\$ 225.00	Propyl Gallate.....	\$ 70.00
Fatty Acid Profile, % Relative.....	\$ 75.00	Refined and Bleached Color.....	\$ 30.00
Fatty Acid Profile, % by Weight.....	\$ 225.00	Refining Loss.....	\$ 20.00
Flash Point.....	\$ 70.00	Saponification Value.....	\$ 35.00
Free Alkali.....	\$ 15.00	Saturated Fat, % Relative (Fatty Acid Profile).....	\$ 75.00
Free Fatty Acids.....	\$ 15.00	Smoke Point.....	\$ 20.00
Glycerin, Assay USP/FCC.....	\$ 60.00	Soap.....	\$ 20.00
Glycerol (Glycerin), Free.....	\$ 60.00	Specific Gravity.....	\$ 30.00
Glycerol (Glycerin), Total.....	\$ 60.00	Sulfur.....	\$ 75.00
Halphen Test. for Detecting Cottonseed Oil.....	\$ 35.00	TBHQ (Tert-Butylhydroquinone).....	\$ 70.00
Hexane Insoluble Matter.....	\$ 25.00	Titer.....	\$ 100.00
Hexane Residues in Fats and Oils.....	\$ 70.00	Tocopherols, Total.....	\$ 100.00
Hydroxyl Value.....	\$ 40.00	Total Fatty Acids.....	\$ 30.00
Insoluble Impurities.....	\$ 10.00	<i>trans</i> -Fatty Acids, % Relative.....	\$ 150.00
Iodine Value.....	\$ 30.00	Triglycerides.....	\$ 100.00
Lecithin , (Calculated from Phosphorus Content)...	\$ 25.00	Unsaponifiable Matter.....	\$ 20.00
Lovibond Color.....	\$ 15.00	Viscosity (Brookfield).....	\$ 50.00
Marine Oil in Vegetable Oils.....	\$ 55.00		
MIU (Moisture, Insoluble Impurities and Unsaponifiable Matter).....	\$ 38.00		

*Method Set-Up Charge May Apply

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Feed / Ingredient Analysis

Acid Detergent Fiber.....	\$ 35.00	Nitrogen.....	\$ 8.00
Acid Insoluble Ash.....	\$ 25.00	Nitrogen Free Extract.....	\$ 30.00*
Acids, Each (Acetic, Propionic, Butyric or Valeric).	\$ 70.00	Nitrogen Solubility Index (NSI).....	\$ 50.00
Alimet.....	\$ 75.00	Non Protein Nitrogen (Urea).....	\$ 50.00
Amino Acid Profile (Including Tryptophan).....	\$ 200.00	Pepsin Digestibility, AOAC (0.2% Pepsin).....	\$ 30.00
Amino Acid, Each.....	\$ 75.00	Pepsin Digestibility, (0.02% Pepsin).....	\$ 30.00
Anisidine Value of Extracted Fat.....	\$ 70.00	Pepsin Digestibility, (0.002% Pepsin).....	\$ 30.00
Antioxidants, Ea. (BHA, BHT, TBHQ, Ethoxyquin)	\$ 70.00	Pepsin Digestibility, Torry Meth, (0.0002% Pepsin)..	\$ 30.00
AOM of Extracted Fat.....	\$ 40.00	Peroxide Value of Extracted Fat.....	\$ 30.00
Ash.....	\$ 8.00	Pesticide Residues, Chlorinated Hydrocarbons And PCB (USDA Method).....	\$ 100.00
BHA.....	\$ 70.00	Pesticide Residues, Chlorinated, PCB and Organophosphate (FDA PAM Method 304)....	\$ 155.00
BHT.....	\$ 70.00	pH Rise (Urease Activity).....	\$ 8.00
Calcium.....	\$ 15.00	Phosphorus.....	\$ 15.00
Carbohydrates (Calculation).....	\$ 10.00*	Phosphorus in Oil	\$ 30.00
Calories, by Bomb Calorimeter (Gross Energy)....	\$ 55.00	Propionic Acid.....	\$ 70.00
Calories (Atwater Calculation).....	\$ 26.00*	Protein.....	\$ 8.00
Chloride.....	\$ 15.00	Protein Dispersibility Index (PDI).....	\$ 45.00
Chondroitin Sulfate.....	\$ 250.00	Protein, Kjeldahl.....	\$ 25.00
Citric Acid.....	\$ 70.00	Protein Solubility (in 0.2% KOH).....	\$ 45.00
Crude Fiber.....	\$ 8.00	<u>Proximate Package</u> (Moisture in combination with protein, fat, fiber, ash and/or pH rise)	
Crude Protein.....	\$ 8.00	• Moisture and one test.....	\$ 8.00
Ethoxyquin.....	\$ 70.00	• Moisture and two tests.....	\$ 12.00
Extraction Charge (When Applicable).....	\$ 10.00	• Moisture and three tests.....	\$ 16.00
Fat (Ether Extract).....	\$ 8.00	• Moisture and four tests.....	\$ 20.00
Fat (By Acid Hydrolysis).....	\$ 25.00	• Moisture and five tests.....	\$ 24.00
Fiber, Crude.....	\$ 8.00	Referee-See Referee/Proximate Analysis Pg 10	
Glucosamine.....	\$ 150.00	Salt/Sodium.....	\$ 15.00
Gross Energy (Bomb Calorimetry).....	\$ 55.00	Starch, Ewers.....	\$ 70.00
Kjeldahl Protein.....	\$ 25.00	Sugar, Total as Invert.....	\$ 80.00
Metabolizable Energy (Calculation).....	\$ 50.00**	Sugar Profile.....	\$ 80.00
Methionine Hydroxy Analog (MHA).....	\$ 50.00	TBHQ.....	\$ 70.00
Microscopic Analysis.....	\$ 150.00	TDN (Total Digestible Nutrients).....	\$ 30.00
Moisture, Karl Fischer.....	\$ 35.00	Trypsin Inhibitor.....	\$ 150.00
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 Vitamin Section Below.....	
Mycotoxins-See Mycotoxin Section on Pg 9		Water Activity.....	\$ 50.00
Net Energy (NEG, NEL or NEM).....	\$ 60.00	Xanthophylls, Total.....	\$ 60.00
Nitrates.....	\$ 60.00		
Nitrites.....	\$ 60.00		

*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.

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Microbiology			
Aerobic Plate Count.....	\$ 15.00	Flat Sour Spores.....	\$ 40.00
Aerobic Plate Count, Air Exposure Monitoring.....	\$ 7.50	Lactic Acid Bacteria.....	\$ 25.00
Aerobic Plate Count, Membrane Filter.....	\$ 15.00	Listeria (ELISA).....	\$ 25.00
Aerobic Plate Count, Swab.....	\$ 15.00	Confirmation-Speciation.....	\$ 25.00
Aerobic Plate Count, USP.....	\$ 17.50	Listeria (Cultural, FDA-USDA).....	\$ 25.00
Anaerobic Plate Count.....	\$ 20.00	Listeria Monocytogenes	\$ 25.00
Bacillus cereus.....	\$ 20.00	Mesophilic Aerobic Sporeformers.....	\$ 40.00
Confirmation.....	\$ 30.00	Mesophilic Anaerobic Sporeformers.....	\$ 50.00
Bacterial Identification.....	POR*	Mold Count.....	\$ 20.00
Campylobacter (Presence/Absence).....	\$ 45.00	Mold Identification to Genus.....	\$ 40.00
Confirmation.....	\$ 55.00	Mold Identification to Species.....	POR*
Campylobacter in Rinses.....	\$ 45.00	Osmophilic Yeast.....	\$ 25.00
Challenge Testing.....	POR*	Plate Count, Aerobic.....	\$ 15.00
Clostridium perfringens (Count).....	\$ 20.00	Plate Count, Anaerobic.....	\$ 20.00
Confirmation.....	\$ 40.00	Plate Count, Total.....	\$ 15.00
Clostridium perfringens (Presence/Absence).....	\$ 20.00	Preservative Effectiveness (USP <51>).....	POR*
Confirmation.....	\$ 40.00	Pseudomonas aeruginosa (USP <61>).....	\$ 25.00
Coliforms (BAM, MPN).....	\$ 17.50	Pseudomonas.....	\$ 20.00
Confirmation.....	\$ 30.00	Species Identification.....	\$ 25.00
Coliforms (Membrane Filter).....	\$ 20.00	Psychrophilic Plate Count.....	\$ 15.00
Coliform and E. Coli	\$ 20.00	Salmonella (ELISA) 25g.....	\$ 25.00
Coliforms (Petrifilm).....	\$ 10.00	Salmonella (ELISA) 375g.....	\$ 70.00
Coliforms (VRB).....	\$ 15.00	Salmonella (Cultural, FDA-USDA).....	\$ 25.00
E. coli (BAM, MPN).....	\$ 17.50	Salmonella Confirmation	\$ 25.00
E. Coli Confirmation.....	\$ 30.00	Salmonella in Biosolids (EPA 503).....	\$ 200.00
E. coli (Membrane Filter).....	\$ 20.00	Salmonella Serogroup (O and H).....	\$ 10.00
E. coli (Petrifilm).....	\$ 10.00	Salmonella Serotype.....	\$ 200.00
E. coli (USP Microbial Limits <61>).....	\$ 37.50	Shigella.....	POR*
E. coli (VRB).....	\$ 15.00	Standard Plate Count.....	\$ 15.00
E. coli O157:H7 (ELISA) 25g.....	\$ 45.00	Staphylococcus aureus (BAM).....	\$ 15.00
Confirmation.....	\$ 150.00	Confirmation.....	\$ 20.00
E. coli O157:H7 (ELISA) 375g.....	\$ 60.00	Staphylococcus aureus (Petrifilm).....	\$ 15.00
Confirmation.....	\$ 150.00	Thermophilic Plate Count.....	\$ 15.00
Enterobacteriaceae.....	\$ 20.00	Total Plate Count.....	\$ 15.00
Fecal Coliforms.....	\$ 20.00	Water Potability.....	\$ 50.00
Fecal Coliforms in Biosolids (EPA 503).....	\$ 40.00	Yeast Count.....	\$ 20.00
Fecal Streptococci.....	\$ 20.00	Yeast and Mold Count.....	\$ 20.00

*POR – Priced on Request

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Mycotoxins

Aflatoxin (ELISA/Neogen).....	\$ 45.00	T2 Toxin (ELISA/Neogen).....	\$ 45.00
DON (Vomitoxin)/ (ELISA/Neogen).....	\$ 45.00	Zearalenone (F2 Toxin)/(ELISA/Neogen).....	\$ 45.00
Fumonisin (ELISA/Neogen).....	\$ 45.00	Vomitoxin (DON)/ (ELISA/Neogen).....	\$ 45.00
Ochratoxin (ELISA/Neogen).....	\$ 45.00	DAS (Diacetoxyscirphenol).....	\$ 150.00

Nutritional Labeling

Nutritional Labeling Analysis Package.....	\$ 790.00	Calcium.....	\$ 15.00
(Calories, calories from fat, total fat, saturated fat, trans fat, cholesterol, sodium, total carbohydrates, sugars, dietary fiber, protein, vitamin A, vitamin C, calcium, and iron.)		Calories (Calculation).....	NC*
Nutritional Labeling by Database.....	\$ 150.00	Calories from Fat (Calculation).....	NC**
Moisture.....	\$ 25.00	Cholesterol.....	\$ 70.00
Fat (By Acid or Alkaline Hydrolysis).....	\$ 25.00	Iron.....	\$ 15.00
Protein.....	\$ 25.00	Salt.....	\$ 15.00
Ash.....	\$ 8.00	Saturated Fat (included in Fatty Acid Profile).....	NC
Sample Preparation Fee.....	\$ 25.00	Sodium.....	\$ 15.00
Carbohydrates (Calculation).....	NC*	Sugar Profile.....	\$ 80.00
		Total Dietary Fiber.....	\$ 140.00
		Fatty Acid Profile, % by Weight (includes Trans)	\$ 225.00
		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(s).....	\$ 200.00*	<u>Multi-Residue Methods</u>	
Chick Edema Factor (Dioxin Residue).....	\$ 250.00	• Carbamate Pesticides, (FDA Method 401)....	\$ 200.00
Chlorinated Pesticide Residue(s).....	\$ 100.00*	• Chlorinated Pesticides and PCB (USDA Method).....	\$ 100.00
Dowtherm (Biphenyl).....	\$ 100.00	• Chlorinated and Organophosphate Pesticides and PCB (FDA Method 303/Non Fatty Foods or FDA Method 304/Fatty Foods	\$ 155.00**
Organonitrogen Pesticide Residue(s).....	\$ 125.00*	• Organophosphate Pesticides (FDA Method 303/Non Fatty Foods or 304/Fatty Foods).....	\$ 125.00**
Organophosphorus Pesticide Residue(s).....	\$ 125.00*	• Pesticide Residues, FDA Luke Procedure, (FDA PAM Method 302).....	\$ 375.00
PCB (Polychlorinated Biphenyls).....	\$ 100.00*		
Pyrethrin Residues.....	\$ 100.00*		
Regulatory Documentation Surcharge.....	100 %		
USP Foreign Substances (In Lanolin).....	\$ 350.00		

*Method Set Up Charge May Apply

**Surcharge for Oilseed Matrix (FDA Method 304) \$ 50.00

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Referee / Proximate Analysis

Acid Detergent Fiber.....	\$ 35.00	Protein Solubility.....	\$ 50.00
Amino Acid Profile (Including Tryptophan).....	\$ 200.00		
Amino Acid, Each.....	\$ 75.00	<u>Proximate Package</u> (Moisture in combination	
Ammonia Nitrogen.....	\$ 15.00	With protein, fat, fiber, ash and/or pH rise)	
Ash.....	\$ 8.00	• Moisture and one test.....	\$ 8.00
Fat.....	\$ 8.00	• Moisture and two tests.....	\$ 12.00
Fat by Acid Hydrolysis.....	\$ 25.00	• 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 Certified)	
Nitrogen.....	\$ 8.00	• Referee Protein.....	\$ 20.00
Nitrogen Solubility Index (NSI).....	\$ 50.00	• Referee Fiber.....	\$ 20.00
Non Protein Nitrogen (Urea).....	\$ 50.00	• Referee Moisture.....	\$ 15.00
Pepsin Digestibility, AOAC (0.2% Pepsin).....	\$ 30.00	• Referee Moisture and Protein.....	\$ 20.00
Pepsin Digestibility, (0.02% Pepsin).....	\$ 30.00	• Referee Moisture and Fiber.....	\$ 20.00
Pepsin Digestibility, (0.002% Pepsin).....	\$ 30.00	• Referee Protein, Fiber.....	\$ 24.00
Pepsin Digestibility, Torry Meth, (0.0002% Pepsin).....	\$ 30.00	• Referee Moisture, Protein and Fiber.....	\$ 24.00
pH Rise (Urease Activity).....	\$ 8.00		
Protein.....	\$ 8.00	TDN (Total Digestible Nutrients).....	\$ 30.00
Protein (Kjeldahl).....	\$ 25.00	Urea (Non Protein Nitrogen).....	\$ 50.00
Protein in Foods or Meat.....	\$ 25.00	Urease Activity (pH Rise).....	\$ 8.00

Russian Export Testing

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, Listeria Monocytogenes and total plate count.

Antibiotic Residues:		Sulfonamides (each).....	\$ 90.00
Bacitracin.....	\$ 85.00	Sulfonamides (screen).....	\$ 150.00
Bambermycin.....	\$ 85.00	Tetracycline Screen.....	\$ 90.00
Chloramphenicol.....	\$ 85.00	Tylosin.....	\$ 85.00
Enrofloxacin.....	\$ 85.00	Virginiamycin.....	\$ 85.00
Erythromycin.....	\$ 85.00	Arsenic (Organic Arsenicals).....	\$ 50.00
Gentamicin.....	\$ 85.00	Heavy Metals (Cadmium, Lead, Mercury).....	\$ 90.00
Lincomycin.....	\$ 85.00	Listeria Monocytogenes.....	\$ 25.00
Neomycin.....	\$ 85.00	Salmonella.....	\$ 25.00
Penicillin.....	\$ 85.00	Aerobic Plate Count.....	\$ 15.00
Spectinomycin.....	\$ 85.00	Chlorinated Pesticide Residues.....	\$ 100.00
Streptomycin.....	\$ 85.00		

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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 (High Potency).....	\$ 80.00	Vitamin A Acetate or Palmitate.....	\$ 70.00
Biotin (Low Potency).....	\$ 150.00	Vitamin B1 (Thiamine).....	\$ 115.00
Choline Chloride.....	\$ 100.00	Vitamin B2 (Riboflavin).....	\$ 115.00
Folic Acid.....	\$ 185.00	Vitamin B6 (Pyridoxine).....	\$ 160.00
Menadione, (Vitamin K; MSBC; MPB).....	\$ 85.00	Vitamin B12 (Cyanocobalamin).....	\$ 180.00
Niacin/ Niacinamide (Nicotinic Acid/Amide).....	\$ 120.00	Vitamin C (Ascorbic Acid).....	\$ 60.00
Pantothenic Acid.....	\$ 165.00	Vitamin D (Premix, concentrate).....	\$ 100.00
Pyridoxine (Vitamin B6)	\$ 160.00	Vitamin D (Feed/Food).....	\$ 340.00
Riboflavin (Vitamin B2).....	\$ 115.00	Vitamin E Acetate (Tocopheryl Acetate).....	\$ 100.00
Thiamine (Vitamin B1).....	\$ 115.00	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

Acetaminophen Assay, USP.....	POR*	Loss on Drying, USP 731.....	\$ 50.00
Acid Value (Free Fatty Acids), USP 401.....	\$ 60.00	Melting Range, USP 741.....	\$ 75.00
Arsenic, USP 211.....	POR*	Mustard Oil.....	POR*
Aspirin Assay, USP.....	POR*	Oxalate, USP 191,(Identification).....	POR*
Betaine HCL Assay, USP.....	POR*	Peroxide, USP 191 (Identification).....	POR*
Caffeine Assay, USP.....	POR*	pH, USP 791.....	\$ 25.00
Camphor Assay, GLC.....	POR*	Propyl Paraben Assay, NF.....	\$ 150.00
Chloride Limit Test, USP 221.....	\$ 50.00	Refractive Index, USP 831.....	POR*
Citric Acid Assay, USP.....	\$ 150.00	Residual Solvents, USP 467.....	POR*
Cottonseed Oil, NF (Fatty Acid Composition).....	\$ 150.00	Residue on Evaporation, FCC.....	\$ 50.00
Crystallinity, USP 695.....	POR*	Residue on Ignition, USP 281.....	\$ 50.00
Diphenhydramine HCL, USP.....	POR*	Salicylamide.....	POR*
Eucalyptus Oil.....	POR*	Salicylic Acid.....	POR*
Fatty Acid Composition, USP.....	\$ 150.00	Saponification Cloud Test, NF (White Wax).....	\$ 150.00
Free Fatty Acids, USP 401.....	\$ 30.00	Saponification Value, USP 401.....	\$ 70.00
Glycerin Assay, USP.....	\$ 150.00	Sodium, USP 191 (Identification).....	\$ 150.00
Free Salicylic Acid.....	POR*	Sodium Benzoate Assay, NF.....	\$ 150.00
Heavy Metals, USP 231, Method 1 or 2 (Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb and Sn).....	\$ 75.00	Sodium Salicylate Assay, USP.....	\$ 150.00
Hydrogen Peroxide Assay, USP.....	POR*	Specific Gravity, USP 841, method 1.....	\$ 60.00
Hydroxyl Value, USP 401.....	\$ 80.00	Sulfate, USP 191 (Identification).....	\$ 150.00
Identification,Tests-General USP 191, per test.....	\$ 75.00	Sulfate Limit Test, USP 221.....	\$ 50.00
Identification Tests-IR or UV.....	POR*	Sunscreens, per ingredient.....	POR*
Infrared Absorption, USP 197.....	POR*	Unsaponifiable Matter, USP 401.....	\$ 60.00
Iodine Value, USP 401.....	\$ 60.00	USP Foreign Substances (In Lanolin).....	\$ 350.00
Iron Limit Test, USP 241.....	POR*	Ultraviolet Absorption, USP 197.....	POR*
		Water, USP 921 (Method I / Karl Fischer).....	\$ 70.00

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