



TESTING SERVICES

MICROBIOLOGY AND CHEMISTRY



ONE-ON-ONE ATTENTION

AFL can assist you with product analysis and development, troubleshooting, quality assurance and compliance issues. Routine laboratory analysis is offered on a per test basis and to meet your needs.

INDUSTRY SPECIALIZATION

We work with manufacturers, private label businesses, hospitality, catalog and food service companies, and suppliers as well as support in-house capabilities.

MICROBIOLOGY

Quantitative

- Aerobic Plate Count
- Anaerobic Plate Count
- Bacillus cereus
- Clostridium botulinum, E. coli O157:H7
- Clostridium perfringens
- Coliform Count
- Escherichia coli Count
- Fecal Coliform Count
- Fecal Streptococcal Count
- Lactic Acid Bacteria Count
- Psychrotrophic Count
- Staphylococcus aureus (Coagulase Positive)
- Yeast and Mold Count

Qualitative

- Campylobacter jejuni
- Escherichia coli O157:H7
- Listeria monocytogenes
- Listeria spp.
- Pseudomonas
- Salmonella
- Shigella
- Staphylococcus Enterotoxin
- Top 6 Non O157 E. coli (STEC)
- Vibrio

Spore Counts

- Aerobic
- Anaerobic
- Flat Sour
- Mesophilic
- Rope Spore
- Sulfide Spoilage
- Thermophilic
- Thermophilic Anaerobic

Bacterial Identification

- Biolog
- Microscopic Examination
- Species Identification
- Vitek 2 compact

Pharmaceutical/ Nutraceutical/Cosmetic

- Antimicrobial Effectiveness (USP 51)
- FDA BAM
- LAL endotoxin
- Microbial Limits (USP 61 and 2021)
- PCTC (CTFA)
- Specified Microorganisms (USP 62 and 2022)

CHEMISTRY

Nutritional

- Proximates
- Ash
- Calories
- Carbohydrate
- Fat
- Moisture
- Protein
- Full Nutritional—Analytical
- Ash
- Calcium
- Calories
- Carbohydrate
- Cholesterol
- Fat
- Fatty Acid Profile
- Fiber
- Iron
- Moisture—Forced Air, Vacuum, Karl Fisher
- Protein
- Sodium
- Sugars
- Potassium V&D
- Full Nutritional—Database

Fat and Oils

- Cholesterol
- Color—Lovibond, Hunter
- Free Fatty Acids
- Fatty Acid Profile
- Saturated
- Polyunsaturated
- Monounsaturated
- Trans
- Iodine
- Omega 3
- Omega 6
- Peroxide Value
- Rancidity/TBA—Thiobarbituric Acid

Vitamins

- A (True-Retinol)
- A (Beta Carotene)
- B1 (Thiamine)
- B2 (Riboflavin)
- B6 (Pyridoxine)
- B12 (Cyanocobalamin)
- B7 (Biotin)
- B3 (Niacin)
- Choline
- B9 (Folate)
- B5 (Pantothenate)
- C (Ascorbic Acid)
- D2 (Ergocalciferol)
- D3 (Cholecalciferol)

- E (Tocopherol)
- Inositol
- K

Minerals and Metals

- Calcium
- Iron
- Magnesium
- Potassium
- Selenium
- Sodium
- Zinc

Creams/Lotions/Astringents

- Benzoyl Peroxide
- Camphor
- Chlorhexidine
- Dimethicone
- Ethanol
- Eucalyptol
- Lidocaine
- Menthol
- Salicylic Acid (BHA)
- Triclosan

Sunscreen Actives

- Avobenzene
- Homosalate
- Meradimate
- Octinoxate
- Octisalate
- Octocrylene
- Oxybenzone
- Padimate-O

Actives/Antioxidants

- Caffeine
- Carnosol
- Carotenoids
- Chondroitin
- Collagen
- CoQ10
- Flavanols
- Glucosamine
- Isorhamnetin
- Kaempferol
- Lycopene
- MSM
- PABA
- Polyphenols
- Pyruvate
- Quercetin
- Preservatives
- Benzoate
- Nitrate
- Nitrite
- Paraben
- Sorbate
- Sulfiting Agents—SO2

Sugars

- Brix
- Individual Sugars
- Sugar Profile

Neuro Toxins

- Patulin
- Aflatoxins
- Fumonisin
- Vomitoxin (DON)

Residue Analyses/Pesticides

- Individual Pesticides
- Organochlorines
- Organophosphates
- PAHs

Physical Testing

- Bulk Density
- Filth and Extraneous Matter
- Foreign Object Identification
- Net and Drain Weights
- Steve Testing—ROTAP
- Viscosity, Bostwick & Brookfield
- Water Activity (aw)

USP Water Requirements

- Conductivity
- Endotoxin
- TOC

Cleaning Validations

Amino Acids

Allergens

- Egg
- Fish
- Milk
- Peanut
- Shellfish
- Soy
- Tree Nut
- Wheat

Raw Materials by FTIR

Other

- Alcohol
- Histamine
- pH
- % Salt
- Scoville Heat Units
- Titrate Acidity

Instrumentation Chemistry Equipment

- UHPLC
- HPLC x 2
- ICP/MS
- LC/MS
- GC/MS
- GC
- TOC
- FTIR

Wet Chemistry Equipment

- FOSS- Kjeltex Analyzer
- ANKOM
- Karl Fischer Titrator
- MARS 6- Microwave Digester

Microbiology Equipment

- VIDAS
- Biolog
- GDS

We are social



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