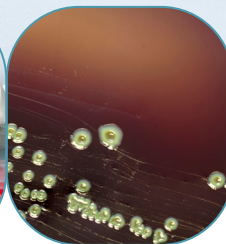




EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING



FOOD TESTING LABORATORY SERVICES GUIDE



EMSL CANADA, INC.
LABORATORY • PRODUCTS • TRAINING





EMSL Analytical, Inc. (EMSL) is a national network of laboratories located in key cities and regions nationwide and in Canada. Established in 1981, the company has expanded its analytical services and capabilities and now operates in more than forty-five laboratory locations, all striving for excellence in providing quality laboratory services in a timely and cost-competitive manner. Our diverse staff of over 800 employees includes a wide range of expertise, educational background and capabilities. These dedicated and capable employees follow the lead and standard of care demonstrated by the owner and founder of the company, Dr. Peter Frasca.

Food Microbiology Capabilities

With a network of ISO/IEC 17025:2017 accredited labs across the U.S., EMSL analytical, Inc. offers both routine and non-routine analysis. Services range from standard qualitative and quantitative analyses of food and environmental samples to several specialized projects such as shelf-life tests, challenge studies, and FDA detain analysis.

Listed below are some of the testing we offer.

- Pathogen Analysis
- Indicator Organisms Testing
- Bacterial and Fungal Identification via VITEK-MS

Pathogen Testing

- *Salmonella*
- *Listeria*
- *E. coli* O157:H7
- Shiga Toxin-Producing *E. coli* (STEC)
- *Campylobacter*
- Additional tests available

Indicator Organism Testing

- APC (Aerobic Plate Count)
- YM (Yeast/Mold)
- Total Coliform/*E. coli*
- Lactic Acid Bacteria
- *Enterobacteriaceae*
- *Staphylococcus aureus*
- Additional tests available

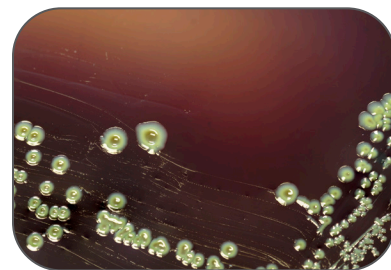
Food Chemistry Capabilities

Nutritional Analysis

- Mandatory NLEA Analysis
- Restaurant Packages
- Nutritional Database Approach
- Pet Food Packages

Proximate Testing

- Moisture/Solids/Loss on Drying
- Protein
- Fat
- Ash (Residue on Ignition)
- Carbohydrates by Difference
- Calories
- Total Dietary Fiber
- Crude Fiber
- Salt (as NaCl)
- Sugar Profile
- Alcohol Content





Wet Chemistry

- Titratable Acidity
- Rancidity of Fats
- Peroxide Value
- Free Fatty Acids
- TBA (Thiobarbituric Acid)

Organic Acids (HPLC)

Vitamins and Minerals Testing

- Nutritional Minerals
- Heavy Metals and Lead
- Trace Minerals
- Vitamins A, C, and D

Color Analysis

- Hunter L.a.b.
- ICUMSA
- Lovibond

Contaminant Identification

- Foreign Materials Identification
- Multi-residue Pesticide Analysis
- Artificial Colors by HPLC
- Mycotoxins (Aflatoxin, Ochratoxin, Deoxynivalenol, Zearalenone, etc.)
- Allergens (by ELISA): Egg, Milk, Soy, Casein, Shellfish, Gluten/Gliadin, Peanut, Treenuts, Sesame as well as many others

Other Capabilities include

- Shelf Life studies
- Challenge studies
- FDA Detain

EMSL Analytical, Inc. participates in various proficiency testing programs. Our online system lets you track your samples and invoices.

Industries Served

- Meat
- Seafood
- Dairy
- Nutraceutical Products
- Nuts and Almonds
- Baked Goods
- Beverage
- Grains and Cereals
- Canned and Frozen Foods
- Prepared Foods
- Snack Foods
- Dietary Products
- Food Supplements
- Private Label
- Antimicrobials
- Personal Care Products
- Restaurants
- Hospitality and Retail
- Pet Foods
- Farm Animal Feed





EMSL Food Testing Laboratories

New Jersey - Cinnaminson (Corporate)

200 Route 130 North, Cinnaminson, NJ 08077
(800) 220-3675, cs@emsl.com

Florida - Orlando

3303 Parkway Center Court, Orlando, FL 32808
(407) 599-5887, orlandolab@emsl.com

Florida - Tampa

5406 Hoover Blvd, Ste 21, Tampa, FL 33634
(813) 280-8752, tampalab@emsl.com

Indiana - Indianapolis

6340 CastlePlace Dr., Indianapolis, IN 46250
(317) 803-2997, indianapolislaboratory@emsl.com

Missouri - St. Louis

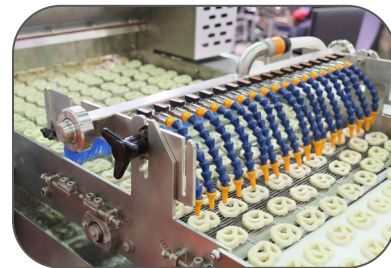
100 Green Park Industrial Court, St. Louis, MO 63123
(314) 577-0150, saintlouislab@emsl.com

North Carolina - Raleigh

2500 Gateway Centre Boulevard, Suite 600, Morrisville, NC 27560
(919) 465-3900, raleighlab@emsl.com

Texas - Houston

5950 Fairbanks North Houston Rd, Houston, TX 77040
(866) 318-3920, houstonlab@emsl.com



For additional information on laboratory services, laboratory locations, sample submittal, and much more, visit www.foodtestinglab.com or call
Northeast: (800) 220-3675
Southeast: (888) 958-8170
West and Midwest: (877) 435-5227