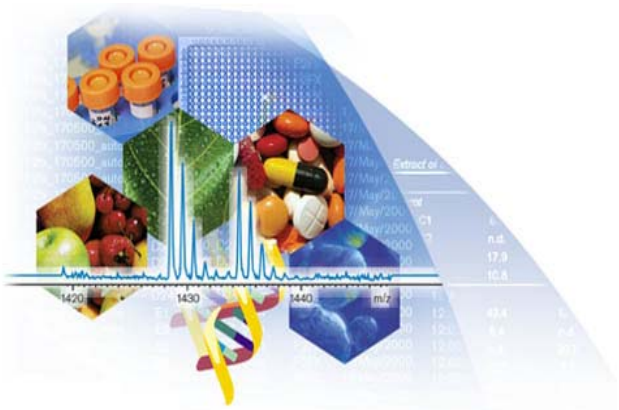
Validation Laboratories Inc.



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VLI Provides Following Microbiology Services to Pharmaceutical, Food, and Cosmetic Industries:

Comprehensive services, extensive capacity and expertise,
Highly experienced and knowledgeable personnel, and Guaranteed Service

Microbiology Testing

Pharmaceutical
Food
Cosmetics
Industrial
Microbiology Services

- o Genetic Identification of Bacteria Via RiboPrinter
- o Contamination Study and Determination
- o Microbiological Contamination Source Investigation
- o Microbial Identification
- o Species Identification

Identification of Microbiological Contaminants

General Microbiology Testing

- Sterile - assay, impurities, pH, microbial, and sterility as well as process validation support for water systems.
- Microbial ID
- Sterility Testing
- Microbial Limits
- Bioburden Analysis
- Water Testing
- Microbial Identification
- Bacterial Endotoxin Test
- Method Development and Validation
- Minimum Lethal Concentration
- Identification of Bacteria – Liquid Sample
- Identification of Fungi – Liquid Sample
- Microscopic Examination of Unknown Substances
- Minimal Inhibitory Concentration (MIC): Test Compound At Three Dose Levels, One Organism
- Aerobic Plate Count
- Anaerobic Plate Count
- Fungal Plate Count
- Acid-Fast Stain for Identification of *Mycobacterium*
- *Mycobacterium* Culture and Enumeration
- Acid-Fast Stain for Identification of *Mycobacterium* + *Mycobacterium* Culture and Enumeration
- Minimum Biocide Concentration (MBC) for *Mycobacterium*: Three Time Points, One Organism
- Nitrifying Bacteria Count
- Endotoxin Evaluation

Food Microbiology Testing

- Aerobic Plate Count – Total bacteria
- Yeast and Mold Count
- Coliforms – Total (MPN)
- Coliforms – Fecal (MPN)
- *General Food Pathogen Screen*
- *E. coli*
- *E. coli* O157:H7
- *Listeria monocytogenes*
- *Salmonella sp.*
- *Shigella*
- *Clostridium perfringens*
- *Staphylococcus aureus*
- *Lactobacillus*

Water Microbiology

- Heterotrophic Plate Count
- Total Aerobic Viable Count in Low Count or Treated Process Water (membrane filtration)
- *Pseudomonas aeruginosa* (membrane filtration)
- Total Coliform (MPN)
- Fecal Coliform (MPN)
- Total Coliform (membrane filtration)
- Fecal Coliform (membrane filtration)
- Fecal Streptococci (membrane filtration)
- Iron Bacteria *(Sphaerotilus, Gallionella, Crenothrix)* Microscopic Evaluation (ASTM D932)
- *Legionella pneumophila* Quantitative and Confirmation by Direct Fluorescent Antibody (DFA)
- *Desulfovibrio desulfuricans* Count and Presumptive Identification
- Total Algae Count by Microscopic Evaluation or Culture

Air Sampling and Air Microbiology

- Air Sampling
- Sampling On-Site and Door-to-Door
- Bacterial Count (Colony Forming Units/Cubic Meter)
- Fungal Count (Colony Forming Units/Cubic Meter)
- Identification of Fungi (yeast & mold)
- Identification of Bacteria

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ASTM Microbiology Testing

- Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation-Fungi Resistance: ASTM C739
- Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings: ASTM C1338
- Standard Test Methods for Mildew (Fungus) Resistance of Paper and Paperboard: ASTM
- Standard Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms: ASTM D2574D2020
- Standard Test Method for Resistance to Mold on the Surface of Interior Coatings in an Environmental Chamber: ASTM D3273
- Standard Test Method for Evaluating the Bacteria Resistance of Water-Dilutable Metal Working Fluids: ASTM D3946
- Standard Test Method for Ability of Adhesive Films to Support or Resist the Growth of Fungi: ASTM D4300
- Standard Test Methods Resistance of Adhesive Preparations in Container to Attack by Bacteria, Yeast, and Fungi: ASTM D4783
- Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Fungal Defacement by Accelerated Four-Week Agar Plate Assay: *Potato Dextrose or Malt Agar and Nutrient-Salts Agar* ASTM D5590
- Standard Test Method for Preservatives in Water Containing Cosmetics: ASTM E640
- Standard Test Method for Efficacy of Microbicides Used in Cooling Systems (Includes Six Biocide Levels and Two Time Points): ASTM E645
- Standard Method for Evaluation of Antimicrobial Agents in Aqueous Metal Working Fluids: ASTM E686
- Mycobacteria Challenge Test for Metal Working Fluids (15% disc. for 11+ samples)
- Standard Test Method for Evaluation of Antimicrobials in Liquid Fuels Boiling below 390^{o}C: ASTM E1259
- Standard Test Method for Determining Carcinogenic Potential of Virgin Base Oils in Metalworking Fluids: ASTM E 1687
- Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions: ASTM E 2149
- Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agents in Polymeric or Hydrophobic Materials: ASTM E2180
- Antimicrobial Products-Test for Antimicrobial Activity and Efficacy, JIS Z 2801 (Japanese Industrial Standard)
- Antibacterial Activity Assessment of Textile Materials: Parallel Streak Method, AATCC 147
- USP 51 Antimicrobial Effectiveness Testing
- Antibacterial Finishes on Textile Materials: Assessment of, AATCC 100
- Standard Practice for Determining Algal Resistance of Plastic Films: ASTM G29
- Standard Practice for Evaluating Water-Miscible Metalworking Fluid Bioresistance and Antimicrobial Pesticide Performance: ASTM E2275

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