



GILLSON  
SCIENCES

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## SCIENCE-DRIVEN SOLUTIONS WITH A COMMITMENT TO COMPLIANCE

Gillson Sciences is a market leader in laboratory testing, visual inspection, monitoring, environmental testing, and scientific advisory solutions. Our teams are committed to advancing human health through innovation and collaboration, driving breakthroughs across life sciences and healthcare, and helping clients navigate the global regulatory environment.



### MICROBIOLOGICAL TESTING & MONITORING

#### Non-Viable

- Identification & enumeration of fungal spores, total dander, fiber, & pollen (air samples)
- Direct identification & enumeration of fungi (direct samples)
- Direct identification of mites, insects, pollen, etc. (direct samples)

#### Viable

- Identification & enumeration of fungi, bacteria, & thermophilic bacteria (air, swab, & bulk culture)
- Total fungal & bacterial count (air culture)
- Legionella testing (potable & non-potable water)

#### Product & Raw Material Testing

- USP <60>, <61>, <62> – Microbial Limit Testing
- USP <71> – Sterility
- USP <85> – Bacterial Endotoxin
- USP <51> – Antimicrobial Effectiveness Testing
- Microbial Identification

#### Cosmetics, Toiletries, Fragrances

- PCPC microbial content & screens
- Preservation testing

#### Biological Indicators

- Log reduction
- Population verification
- Go/No-go (positive/negative)

#### Medical Devices & Product Contact

- USP <1119>
- AAMI / ISO 11737

#### Nutritional Supplements

- USP <2021>, <2022>, <2023>

#### Additional Testing

- Water Activity (USP <922>, <1112>)
- Bioburden (USP <1231>)
- Organism preparation & storage

### ENVIRONMENTAL & AIR QUALITY TESTING

#### Volatile Organic Compounds (VOC)

- EPA TO-15
- TIC analysis (identification of 125,000+compounds)

#### Odor & Fuel Hydrocarbon Analysis (VOC-Based)

- Benzene, toluene, ethylbenzene, xylenes
- Fuel aromatics & oxygenates (MTBE, ETBE, TAME, TBA, DIPE)
- Chlorinated solvents (PCE, TCE + breakdown products)

#### BioGas Matrix

- Organosilicon content
- Major gas components (methane, nitrogen, oxygen, carbon monoxide, carbon dioxide)
- Complete VOC spectrum
- Organic & inorganic sulfur

#### Soil Vapor Intrusion

- EPA TO-15 with target compounds
- TIC analysis (identification of 125,000+ additional compounds)

#### Sustainable Air Quality Testing

- LEED v3.2, v4, v4.1, & upcoming v5
- WELL certification
- IAQP & IgCC certifications

### PARTICULATE MATTER TESTING & CHARACTERIZATION

#### USP General Chapters

- <729>, <787>, <788>, <789>

#### ISO & Other Standards

- ISO 8871-3
- ISO 8536
- ISO 14708
- BS EN 45502-2-1:2003
- ASTM testing procedures

#### Analytical Technologies

- Light obscuration & light scattering
- Flow imaging
- Nano tracking analysis (NTA)
- Laser diffraction spectroscopy
- Dynamic light scattering
- Gravimetric analysis (NIOSH particulate & dust methods)
- Carbon black & soot analysis (ASTM D6602, HVAC system applications)

#### Additional Services

- Feasibility & method development
- Method validation
- Method transfer/verification

#### Particle Identification

- FTIR spectroscopy
- SEM / EDS
- Particle isolation
- Optical microscopy
- Full particle identification (organic, inorganic, fibers, biological materials)
- Single analyte & unknown particle identification using FTIR, GC/MS, ICP, SEM, TEM, & PLM

#### Visual Inspection Challenge Sets

- Introductory/training sets
- Probability of detection (POD) sets
- Custom mimic solution development

#### Particle Count / Size Standards

- Instrument PQ standards
- Standards for regulatory testing
- Subvisible protein standards
- Custom standard development

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## FACILITY, UTILITY, & ENVIRONMENTAL SYSTEMS TESTING

### Environmental Monitoring

- ISO 14698, USP <1116>, USP <797>
- Non-viable particulate count
- EMPQs

### Water Systems

- TOC (USP <643>)
- Conductivity (USP <645>)
- Resistivity
- Nitrates (Ph. Eur. 0008)
- Total hardness, chloride, pH, alkalinity
- Metals (cadmium, copper, lead, nickel, aluminum, iron, manganese, zinc)
- Silicate, color/turbidity
- AAMI ST108

### Validation & Qualification

- Gowning validation/qualification
- Media quality control (growth promotion, sterility)
- Aseptic media qualification (media fill testing)
- Cleaning validation/verification (USP <1072>, TOC)

### Compressed Air Testing (ISO 8573)

- Oil, dew point, particulate
- Microbial & purity testing

### Steam Quality Testing

- Superheat, non-condensable gases, dryness
- Endotoxin, microbial, TOC, conductivity

### Calibration

- Temperature, balances, humidity, time
- Pressure, pH/conductivity meters, thermometers

### Equipment Qualification

- Autoclaves, incubators
- Freezers, refrigerators

## METALS & CHEMICAL ANALYSIS

### Air, Paint, Soil, Bulk Materials

- Lead (total concentration)
- RCRA 8 metals (As, Ba, Cd, Pb, Se, Ag, Hg)
- Mercury (total concentration)
- TCLP for lead
- TCLP for RCRA 8 metals

### Wipe Sampling

- Total lead concentration (AA; RL 10 µg/ft<sup>2</sup>)
- Low-level lead concentration (ICP; RL 2.0 µg/ft<sup>2</sup>)
- Multi-metal analysis (ICP; RL 2.5 µg/ft<sup>2</sup>)

## ASBESTOS TESTING

### Bulk

- PLM EPA 600/R-93/116
- PLM EPA 400 Point Count
- PLM EPA 1000 Point Count
- PLM EPA NOB
- TEM Chatfield
- TEM EPA NOB
- PLM Qualitative

### Air

- PCM NIOSH 7400
- OSHA w/ TWA
- TEM AHERA
- TEM NIOSH 7402
- TEM Level II

### New York ELAP

- NY ELAP 198.1
- NY ELAP 198.6 (PLM NOB)
- NY ELAP 198.4 (TEM NOB)

### Soil

- PLM EPA 600/R-93/116 (Qualitative)
- PLM CARB 435 (LOD <1%, 0.1%, 0.25%)

### Vermiculite

- PLM EPA 600/R-93/116
- PLM EPA 400 Point Count
- Cincinnati Method

### Dust

- TEM Wipe ASTM D-6480
- TEM Microvac ASTM D-5755

### Water

- EPA 100.2

## SAMPLING & LABORATORY SUPPORT

### Media Supply

- TSA / TSA w/ Lec & P80
- SDA / SDA w/ Lec & P80

### Sampler Rental & Sales

- Microbial
- Particle
- Compressed air/SUTO
- Clean steam kit

### Sample Containers

- Conductivity
- TOC
- Microbial
- Swabs

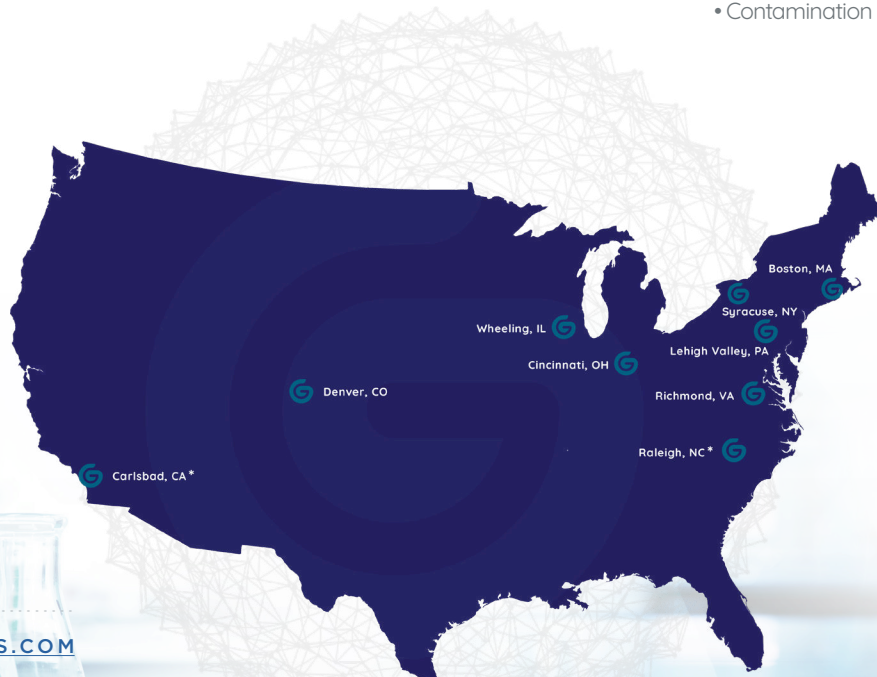
## CONSULTING & TRAINING

### Consulting

- SOP & protocol drafting/review
- Environmental monitoring program development
- Cleanroom qualification
- Risk assessments
- EM data review & remediation investigations
- Cleaning program analysis
- Gowning technique/validation
- Trending analysis & reporting

### Training

- Aseptic technique
- First air
- Cleaning procedures
- Gowning & environmental sampling
- Compressed air sampling
- Aseptic sampling technique
- Contamination sources & control



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