



Who We Are

Assured Bio Labs is an AIHA-LAP, LLC accredited full-range microbiology laboratory specializing in traditional culture, microscopic and molecular based analysis located in

Oak Ridge, Tennessee.

Assured Bio processes and interprets samples from homes, office buildings, schools, hospitals, micro-sensitive manufacturing facilities, and other buildings.

Make Assured Bio your one-stop source for experimental consultation and product testing needs.



Fully customizable 2,295 cubic foot simulation room

Contact Us:

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Air Cleaning & Device Product Testing Room

Your Environmental
Microbiology Laboratory

No matter where your product is in the process, we are here to help you.

LAB SERVICES

Air Cleaning Device Testing

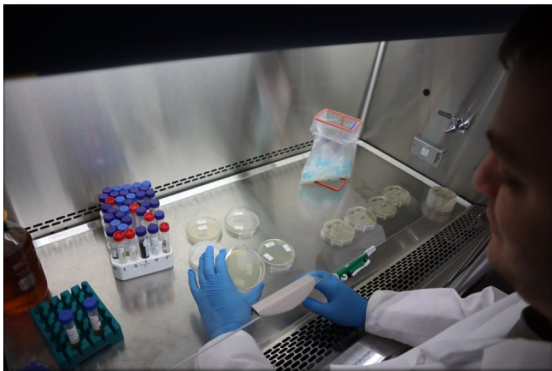
Assured Bio houses extensive resources for testing devices designed for air purity and cleaning. Using both our simulation facility and in-lab equipment, devices can be tested against numerous contaminants to show microorganism (virus, bacteria, mold) viability and removal, Volatile Organic Compounds (VOCs), and particulate concentrations.

Surface Cleaning Product Testing

With a large suite of microbial contaminants and experience in microbial culturing, Assured Bio can test the efficacy of surface cleaning products using its in-lab equipment. All experiments are performed under stringent Quality Control procedures to ensure validity.

HVAC Coil and Duct Testing

Assured Bio's simulation room hosts a fully ducted air system that circulates into a HEPA filtration system. This room allows for real-world air flow testing while in-lab equipment allows for precise HVAC coil testing.



*Pricing will vary depending on project needs and scope.
Quote available after consultation.

EXPERIMENTATION PROCESS

Air disinfection experiments performed at Assured Bio Labs are conducted in trials which consists of a control run and a treatment run that are compared to one another to determine product efficacy. For best practices, we typically advise every experiment to include at least 3 trials for both control and treatments. This method allows for reproducibility and for statistical analyses to be performed for your product.



Common Challenge Organisms Bacteria:

Staphylococcus aureus
Pseudomonas aeruginosa
Escherichia coli
Bacillus subtilis

Fungi:

Aspergillus flavus
Aspergillus brasiliensis
Candida albicans
Cladosporium cladosporioides

Virus:

E. coli Bacteriophage MS2
Pseudomonas Bacteriophage Phi6

Common Equipment Used

- HEPA
- Andersen Impactor
- Coriolis Samplers
- Particle Sizer
- Ozone Monitor
- Commercial 3D Printer
- Biological Safety Hoods
- VOC Monitor
- And more...

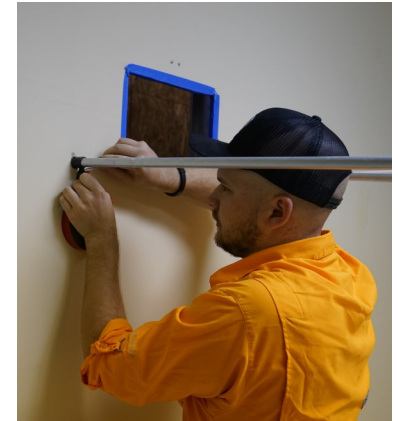
Common Testing Performed On

- Ion Generators
- Disinfectants
- UV Lights
- Photocatalytics
- Ozone Generators
- Reactive Oxygen Species
- And more...

TESTING FACILITIES

Laboratory Testing Facility

Assured Bio utilizes high-end equipment to ensure product testing sterility and credibility. This data includes biosafety hoods, sterile consumables, and autoclaves. Many tests performed in the lab investigate the antimicrobial efficacy of physical (filtration, UV, etc.) and chemical (disinfectants, etc.) systems. Our testing facility features a commercial 3D printer that allows for a high level of flexibility when designing custom parts for unique experiments.



Simulation Room

We have a state-of-the-art 2,295 c.f. simulation room for aerosol and particulate testing. This fully customizable facility is designed for controlling and monitoring parameters within the room, such as temperature, humidity, and air flow while measuring



particle count and size distribution. This space offers a controlled yet real world perspective of aerosols.