

## CONFIRM EFFICACY AND ASSURE REGULATORY APPROVAL WITH SPECIALIZED ANTIMICROBIAL TESTING

Antimicrobial efficacy challenges, regulatory hurdles, and validation complexities can undermine even the most promising products. When consumer safety is paramount and regulatory standards are increasingly stringent, you need a scientific partner who transforms these obstacles into manageable processes. Element's experts work alongside your team, delivering reliable antimicrobial and analytical testing that ensures regulatory compliance while flexibly scaling with your product development needs. Partner with our Eagan team, backed by over 35 years of experience, to focus on your innovative solutions while we provide the specialized testing that helps validate efficacy, support EPA registration and FDA clearance, and build consumer confidence.

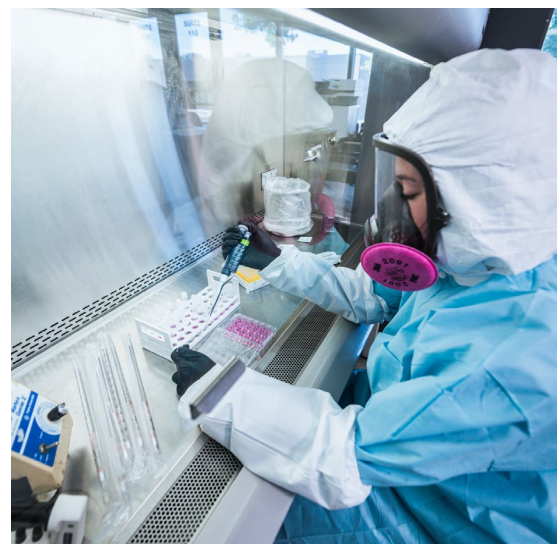
### ACCELERATE MARKET ACCESS WITH RELIABLE ANTIMICROBIAL TESTING

Partner with Element Eagan to:

- Obtain reliable data for EPA registration and FDA clearance
- Transform efficacy validation from a time-consuming obstacle to a strategic advantage
- Access an extensive microbial library of over 500 species for thorough efficacy testing
- Identify and address antimicrobial performance issues before they impact regulatory approval
- Leverage specialized BSL-2 and BSL-3 testing capabilities for comprehensive antimicrobial validation
- On-site analytical chemistry for regulatory-compliant data generation

### ISO 17025 ACCREDITED AND GLP-COMPLIANT TESTING THROUGHOUT YOUR PRODUCT LIFECYCLE

Safeguard your products and manufacturing processes with comprehensive antimicrobial testing designed to validate efficacy and ensure regulatory compliance. Our expert laboratory services help you maintain quality control and demonstrate product performance from development through commercialization:



#### EARLY DEVELOPMENT

- Accelerate research with efficient antimicrobial screening
- Make data-driven formulation decisions
- Establish baseline efficacy parameters

#### REGULATORY SUBMISSION

- Generate EPA registration-ready efficacy and chemistry documentation
- Deliver data that addresses EPA and FDA requirements
- Meet strict regulatory timelines

#### COMMERCIAL SUPPORT

- Ensure consistent product performance
- Support continuous product improvements
- Maintain ongoing compliance

## COMPREHENSIVE ANTIMICROBIAL AND ANALYTICAL SOLUTIONS

Our Eagan laboratory is ISO 17025 accredited, GLP-compliant, and EPA audited and FDA inspected, providing specialized testing services including:

### DISINFECTANTS AND SANITIZERS

- **Sanitizer Effectiveness Testing** -Efficacy data for food contact and non-food contact applications
- **Disinfectant Effectiveness Testing** - AOAC & ASTM standardized methods
- **EPA Registration** -Comprehensive efficacy data for product registration
- **EN Chemical Disinfectant Methods** - International standard compliance
- **Sporicidal/Sterilant Activity Testing** - Specialized testing for the most resistant organisms
- **Laundry Disinfectant/Sanitizer Efficacy** -Textile-specific antimicrobial validation
- **High-Level Disinfectant Studies** -FDA-compliant testing

### ANTIMICROBIAL PRODUCT TESTING

- **Products with Antimicrobials** - Efficacy testing for treated articles and surfaces, non-public health claims and unique antimicrobial applications
- **Residual Activity on Treated Articles** - Persistence evaluations for long-term claims
- **AATCC 100 Assessment** - Standardized testing for antimicrobial textiles
- **ASTM E2149 Testing** - Validation for immobilized antimicrobial agents
- **ASTM E2180 Testing** - Specialized testing for polymeric materials
- **ISO 22196/JIS Z 2801 Testing** -International standard methods for plastics
- **Biofilm Testing** - Specialized protocols for the most challenging microbial communities
- **Preservative Challenge Testing** - Product stability and antimicrobial effectiveness
- **Minimum Bactericidal Concentration (MBC)** - Precise determination of antimicrobial potency
- **Copper-Treated Surface Efficacy** - Specialized testing for metal-based antimicrobials
- **Customized Protocol Development** - Tailored solutions for unique product challenges

### VIRUCIDAL EFFICACY

- **ASTM Virucidal Efficacy (E1053)** - Hard surface efficacy validation testing
- **Virucidal Towelette Testing** - Wipe-specific performance validation testing
- **AATCC-100 Modified Testing** - Specialized textile applications
- **ISO 21702/JIS Z2801 Testing** - Antiviral activity on plastics
- **Viral Surrogate Testing** - Including Hepatitis B/Hepatitis C/Norovirus surrogates
- **Virucidal Suspension Testing (ASTM E1052)** - Liquid disinfectant validation efficacy testing
- **Virucidal Room Disinfection (Fogger)** - Whole-room decontamination validation

### ANTIMICROBIAL PRODUCT CHEMISTRY TESTING

- Product Chemistry analysis performed per the EPA 830: Product Properties Test Guidelines
- Chemical characterization, method validation, storage stability, physical chemistry, and more, all performed on-site
- Manual titration, Autotitration, HPLC, and GC-FID testing methods available

## SPECIALIZED EXPERTISE FOR EMERGING TECHNOLOGIES

### UV AND ADVANCED DISINFECTION SYSTEMS

- Comprehensive testing for UV light, water filters, and steam generators
- Validation protocols for electrolyzed water generators and ionizers
- Custom efficacy testing for innovative antimicrobial technologies

### ANTIMICROBIAL DEVICES AND SURFACES

- Specialized testing for antimicrobial-incorporated products
- Residual activity validation for treated surfaces
- Custom protocol development for novel antimicrobial mechanisms

## READY TO STREAMLINE YOUR PATH TO MARKET REGISTRATION?

Discover how Element Eagan's specialized antimicrobial and analytical testing expertise can help ensure the efficacy and regulatory compliance of your products. Our experienced scientists are ready to discuss your specific testing requirements and develop a customized solution.

Click or scan the QR code to learn more.

