Antimicrobial Susceptibility Testing

Innovating together

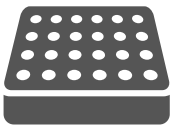
Antimicrobial susceptibility testing services for the pharmaceutical industry

With more than 100 years of microbiology experience, we are proud to offer our expertise in antimicrobial susceptibility testing (AST) and methodologies to support the pharmaceutical industry in new drug development.

Our trusted brands, including the Thermo Scientific™ Sensititre™ AST System and Thermo Scientific Sensititre plates, with gold standard reference testing capabilities utilizing frozen broth microdilution plates, and Thermo Scientific™ Oxoid™ AST Discs with unparalleled quality, enable us to provide reliable products and testing services in all phases of new drug development and clinical trials.

Sensititre plate development

Development of new antimicrobials on 96-well microtiter plates utilizing broth microdilution method, meeting CLSI, ISO, EUCAST, or other local requirements.*



- **Manual development** — Development of novel antimicrobic for antimicrobial susceptibility testing in Sensititre broth microdilution dried plates for manual read methods including Thermo Scientific™ Sensititre™ Vizion™ Digital MIC Viewing System and Thermo Scientific™ Sensititre™ Manual Viewbox.

- **Autoread development** — Development of novel antimicrobic for antimicrobial susceptibility testing in Sensititre broth microdilution dried plates for automated methods including Thermo Scientific(TM) ARIS HiQ™ System and Thermo Scientific™ Sensititre™ OptiRead™ Automated Fluorometric Plate Reading System.

- **Validation service** — Equivalency studies comparing Sensititre dried plate to the broth microdilution reference method allowing use of dried plates in phase III trials.

- **Clinical trials** — FDA/ISO/IVDR-compliant trials to support regulatory submission of AST devices.

Oxoid AST disc development

Development of new antimicrobials for disc diffusion methods meeting CLSI, ISO, EUCAST, or other local requirements.*

- **Performance evaluation-only development** — Small scale development of handmade discs for research use only.

- **Clinical trials** — FDA/ISO/IVDR-compliant trials to support regulatory submission of AST devices.

- **Commercial development** — Large scale development of commercial Oxoid AST discs for IVD testing.

Organism types available to develop on Thermo Scientific AST platforms are non-fastidious Gram negative and Gram positive bacteria, fastidious Gram negative and Gram positive bacteria, yeast, and mycobacteria.

*Subject to regional regulatory requirements

Additional services and offerings

- **Reference testing** — Comparison studies demonstrating performance of new AST devices and instruments against the broth microdilution reference method (frozen plate format).

- **Custom plates** (frozen and dried plate format)
  - For use in supporting clinical drug trials for FDA, EMA/IVDR, and other* submissions.
  - For use in supporting comparative validation studies.
  - For use in supporting development of custom plate/ancillaries for new compound development and surveillance testing.

With a variety of services and methodology expertise, we aim to support and streamline new antimicrobial development for the pharmaceutical industry, and help ensure accurate AST options are introduced into the market to support clinicians and veterinarians in guiding optimal antimicrobial therapies, as well as research and surveillance applications in understanding antimicrobial resistance.

For more information on how to find solutions perfectly matched for your AST program, please contact your local Thermo Fisher Scientific Microbiology representative or visit us at **thermofisher.com/ast-services**

Not all products listed in the tables are CE marked or have 510(k) clearance for sale in the U.S. Availability of products in each country depends on local regulatory marketing authorization status.