

PRODUCT SPOTLIGHT

ANTIMICROBIAL-RESISTANT MICROORGANISMS

A GLOBAL HEALTH THREAT

Antimicrobial resistance is one of the greatest global health threats affecting humanity. The emergence and spread of antimicrobial-resistant microorganisms affects our ability to treat common infections, progress in healthcare, and survival from routine surgeries.

ANTIBIOTIC RESISTANCE ESTIMATES IN THE UNITED STATES PER YEAR



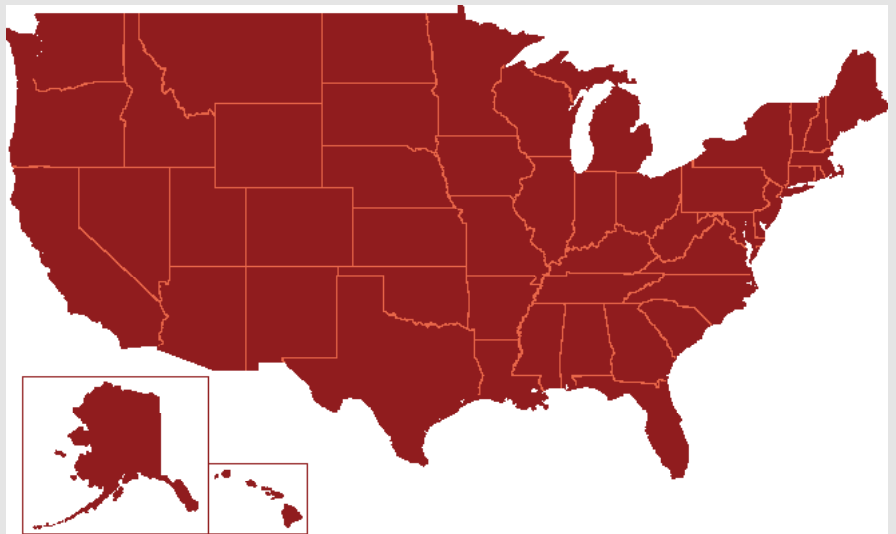
2.8 million+ infections



35 thousand+ deaths



\$4.6B+ in costs to treat infections caused by 6 of the 18 most alarming drug-resistant germs



Centers for Disease Control and Prevention, National Infection & Death Estimates for Antimicrobial Resistance

TOGETHER WE CAN FIND A SOLUTION

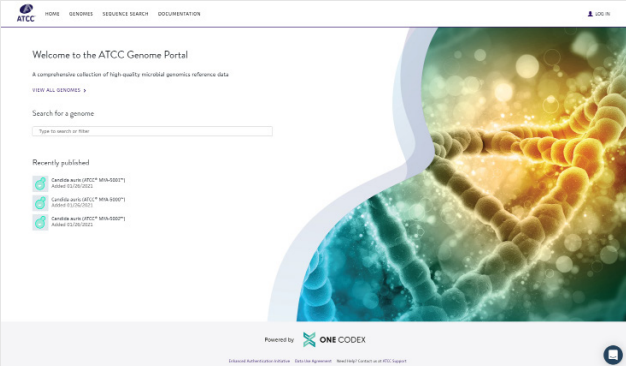
ATCC understands the danger and growing concern behind the spread of antimicrobial resistance. To aid research focused on the prevention and treatment of infections caused by antimicrobial-resistant microorganisms, ATCC has acquired and authenticated various clinical strains of interest, including:

- Carbapenem-resistant *Acinetobacter*
- *Candida auris*
- *Clostridioides difficile*
- Carbapenem-resistant Enterobacterales
- Drug-resistant *Neisseria gonorrhoeae*
- Drug-resistant *Campylobacter*
- Drug-resistant *Candida*
- ESBL-producing Enterobacterales
- Vancomycin-resistant Enterococci (VRE)
- Multidrug-resistant *Pseudomonas aeruginosa*
- Drug-resistant nontyphoidal *Salmonella*
- Drug-resistant *Salmonella* serotype Typhi
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Drug-resistant *Streptococcus pneumoniae*
- Drug-resistant *Mycobacterium tuberculosis*
- Erythromycin-resistant Group A *Streptococcus*

DESIGN A SMARTER EXPERIMENT

Microbial panels enable faster, more intelligent choices when selecting cultures for antimicrobial resistance research. Characterization data such as antibiotic resistance or susceptibility, the presence or absence of specific genes, and toxinotype are provided in a printable format, making it easy for you to quickly find the strains you need. Each panel is also offered at bulk discount pricing, allowing you to take advantage of added cost savings when compared to individual items.

ATCC® No.	Product Name	Description
MP-1™	Vancomycin Resistant Enterococci Microbial Panel	A panel of 19 <i>Enterococcus</i> strains that have been tested for resistance to vancomycin and teicoplanin. The presence of <i>vanA</i> , <i>vanB</i> , or <i>vanC</i> genes in resistant strains has been confirmed by molecular testing at ATCC.
MP-2™	SCCmec Type MRSA Panel	A panel of 7 methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) strains each with a different SCCmec type.
MP-3™	Pulsed-Field Type MRSA Panel	A panel of 10 methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) strains each with a different Pulse-field type.
MP-4™	<i>Clostridioides difficile</i> Panel	A panel of 8 <i>Clostridioides difficile</i> strains representing each one of the known <i>C. difficile</i> toxinotypes, including types 0, IIIb, IIIc, (tcdA-, tcdB-), V, VIII, XII, and XXII.
MP-5™	Antifungal Susceptibility Testing Panel	A panel of 14 antifungal susceptibility testing strains for use as described in: Reference Method for Broth Dilution Antifungal Susceptibility Testing of Filamentous Fungi: Approved Standard - 2nd Edition. Wayne, PA. Clinical and Laboratory Standards Institute; CLSI M38-A2.
MP-18™	NDM-1 Panel	A panel of 6 strains expressing the New Delhi metallo-β-lactamase (NDM-1) gene, <i>bla_{NDM}</i> . Strains demonstrate resistance to as many as 36 representative antibiotics in a variety of drug classes, including carbapenems, β-lactams, cephalosporins, quinolones, tetracyclines, glycolcylines, aminoglycosides, and dihydrofolate reductase inhibitors.
MP-23™	Drug-Resistant <i>Pseudomonas aeruginosa</i> Panel	A panel of 7 strains that have been tested against a variety of drug classes, including penicillins, cephalosporins, carbapenems, quinolones, and aminoglycosides. These strains were isolated from human sputum samples and demonstrate resistance to as many as 13 antibiotics.
MP-24™	KPC Strains Panel	A panel of 4 strains confirmed to carry the <i>bla_{KPC}</i> gene conferring resistance to carbapenem antibiotics. These strains demonstrate multidrug-resistance to a variety of antibiotic classes, making them ideal for the development, verification, and evaluation of rapid detection methods, innovative therapeutic techniques, novel antibiotics, and updated sterility protocols.



DISCOVER REFERENCE-QUALITY GENOMES

ATCC has developed a standardized genome sequencing, assembly, and annotation pipeline to provide researchers with validated whole-genome sequences tied back to our credible biological materials. These reference genomes and the corresponding meta-data are publicly available through the ATCC Genome Portal.

Visit the ATCC Genome Portal at genomes.atcc.org.

VIEW OUR PORTFOLIO OF ANTIMICROBIAL-RESISTANT STRAINS AT [WWW.ATCC.ORG/SUPERBUGS](https://www.atcc.org/superbugs)

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