ACCELERATE

phenoTM

Fast Phenotypic Susceptibility Testing

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Upgrade your susceptibility testing with speed and simplicity

Built for extraordinary speed and simplicity, the Accelerate Pheno® system leverages a number of technologies to speed up the reporting time for identification and antibiotic susceptibility results.

Recent studies show results from the system are available in approximately 7 hours for positive blood culture samples. These faster results help clinicians to optimise antibiotic therapy approximately 40 hours faster.*

Powered by Morphokinetic Cellular Analysis (MCA), the system tracks phenotypic features including the size, shape, and division rate of individual live cells growing into microcolonies while being challenged by antibiotics.

Combined with parallel supercomputing, this new way of analysing the response of bacteria unlocks a number of current and future capabilities.

*Based on peer-reviewed publications comparing to MIC-based methods through June 2020

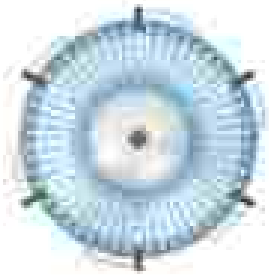
Accelerate Pheno™ system

- Phenotypic antibiotic susceptibility
- MIC results and SIR interpretation
- Pathogen identification
- Polymicrobial capability
- Fast, clinically actionable results
- Automated sample preparation
- Fully automated FISH
- Morphokinetic cellular analysis
- LIS and remote connectivity
- Scalable to meet demand

Simplify workflow to one kit

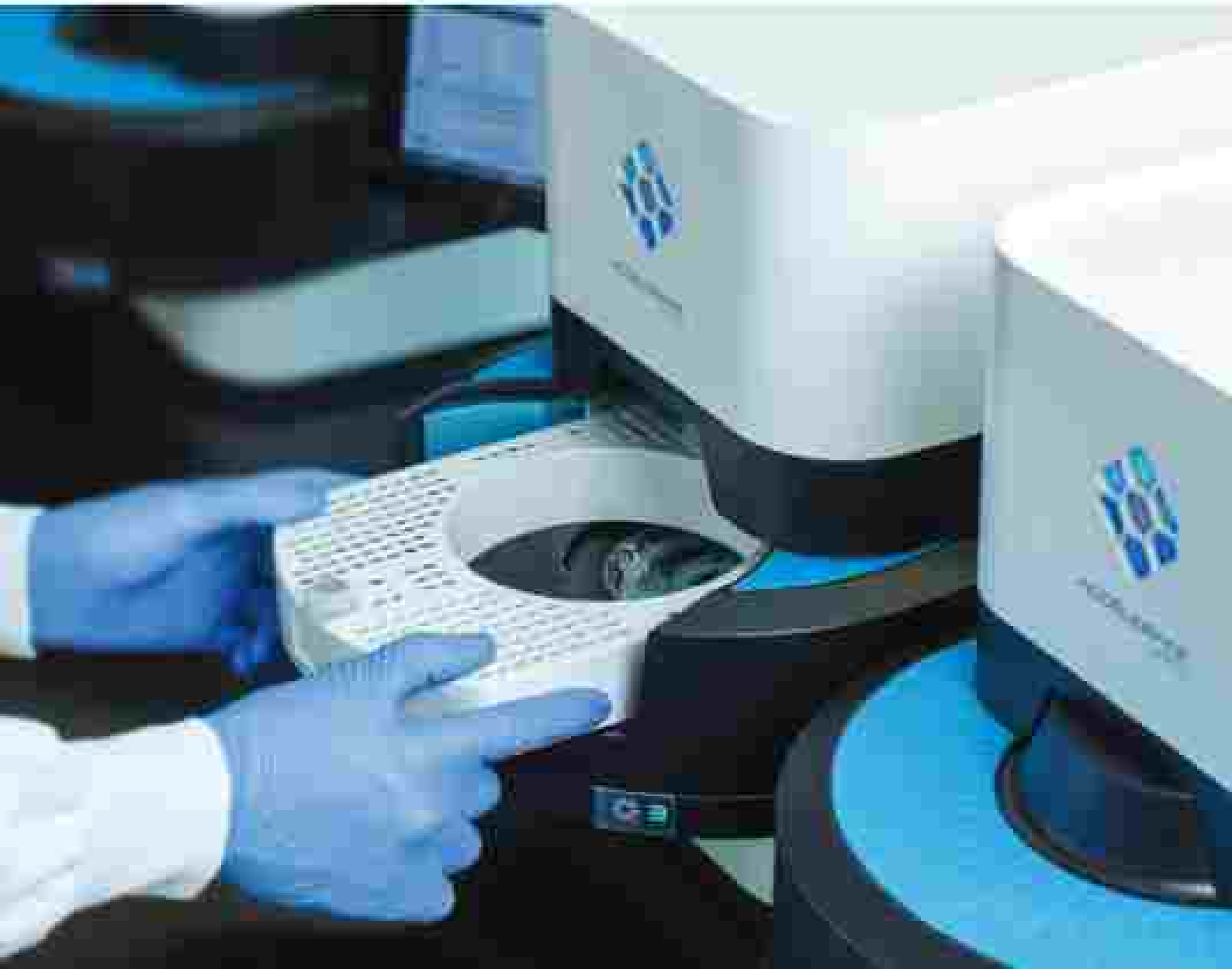
Contains Antibiotics, FISH Probes, and Reagents

Fill Sample Vial
Easy to fill with a spill proof cap



Insert Cassette
48 flowcells for multiplex testing

Load Reagent Cartridge
Contains reagents and media for more than 100 cleared assays



Automate your sample preparation

Save time by eliminating many of the sample preparation steps required prior to testing. The system makes these and other processes hands-free:

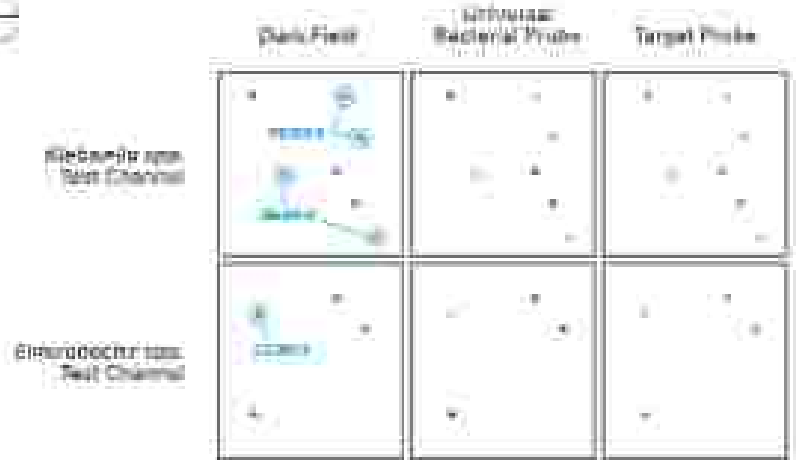
- Sample cleaning
- Standardising inoculum
- Reagent incubating and mixing
- Cell capture and positioning

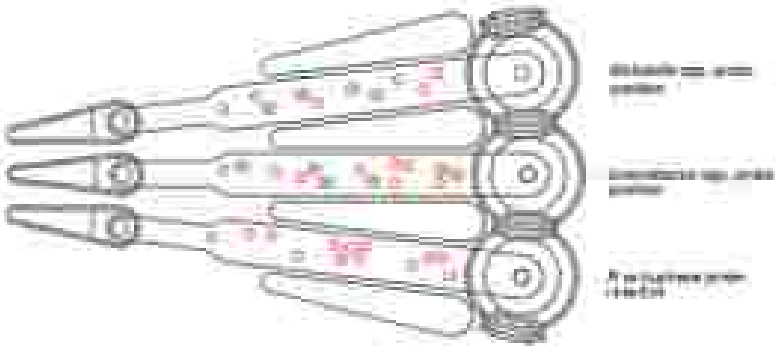
Fully automate your FISH ID

Identification methods today frequently rely on purified samples of one organism, adding 24 hours or more of subculturing before testing. Other techniques may fail when presented with a sample of mixed bacteria or are limited to a few common species.

The Accelerate Pheno™ system offers an array of fully automated simultaneous fluorescence in situ hybridisation (FISH) tests. For each test, signal from a target probe is compared with signal from universal bacterial and eukaryotic probes.

Colocalisation of the target probe signal and universal probe signal confirms the presence and identity of the target while differentiating from non-specific staining.



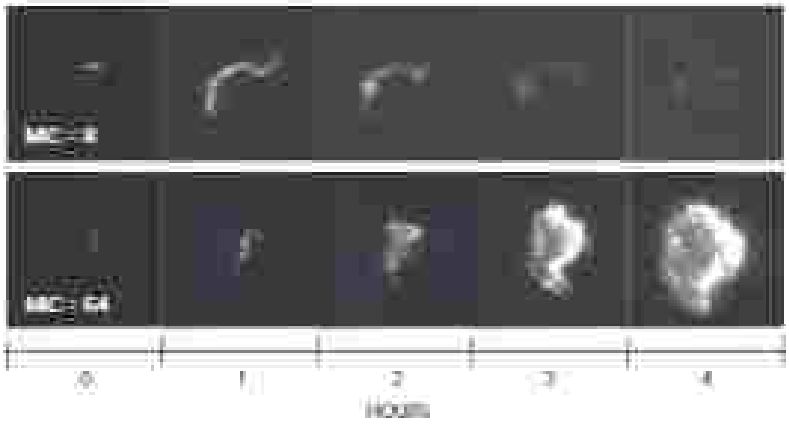


Provide fast phenotypic susceptibility results

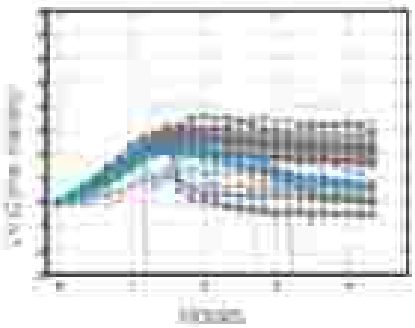
Morphokinetic Cellular Analysis (MCA)

Antibiotic susceptibility results are reported as MICs and are determined by measuring morphokinetic changes in cell and colony growth in the presence of select concentrations of antibiotics. The growth patterns are compared to reference growth profiles which have been correlated to broth microdilution MICs. Results are then interpreted based on interpretive breakpoints and expert rules.

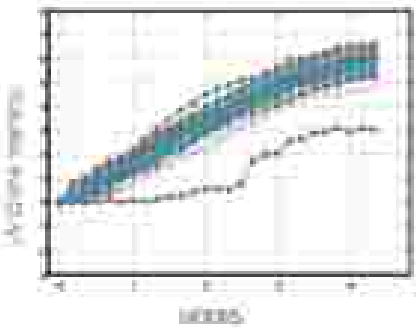
E. COLI STRAINS VS. PIPERACILLIN-TAZOBACTAM



MIC = 8



MIC = 64



Review and release results right from your office

User Interface and Informatics

Easy to use and accessible from most browsers, the software is designed for use both inside and outside of the lab. While testing is happening in the lab, you can connect to the software from your office or from anywhere within your secure network to review and release results.

Dashboard to LIS Reporting

- Intuitive user interface
- Real time status updates
- Bidirectional LIS connectivity
- Secure network UI access
- Custom permission profiles
- Customizable reports
- Interpretive breakpoints
- Expert rule system

Diagnostics supporting antimicrobial stewardship

Be the source of faster results and help your antibiotic stewardship team deliver the quality of life you want for patients now, and for the future.