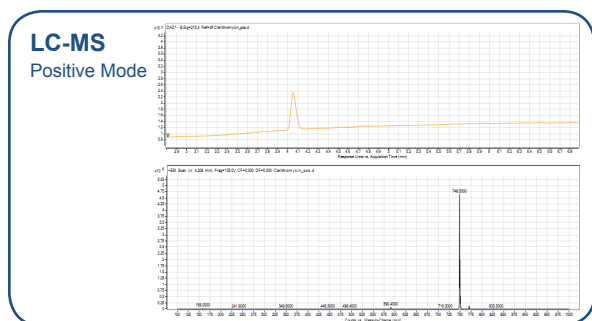
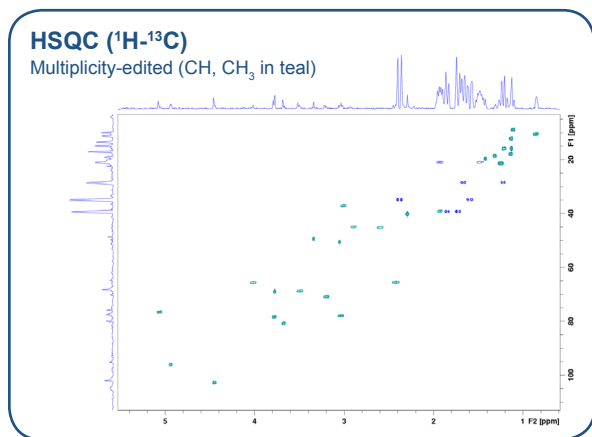
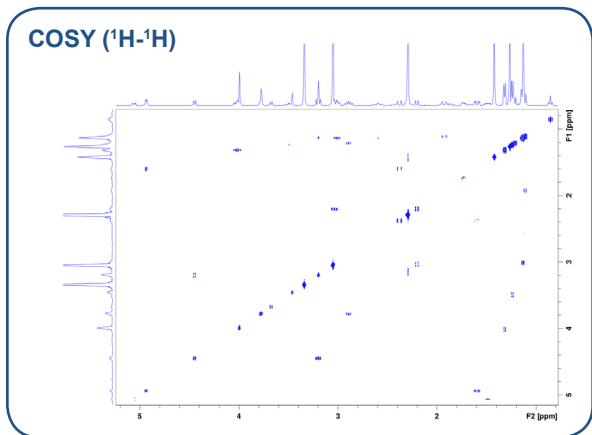


Analytical Test Example (con't from prev. page)



CONTACT US

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1-888-98-EMERY (36379)
+1 (510) 899-8814

General: info@emerypharma.com
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 Chemistry: chemistry@emerypharma.com



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FDA Registered
DEA Licensed
cGMP/GLP Compliant

- Microbiology
- Cell Biology
- Bioanalytical Testing
- Analytical Services (NMR, LCMS, HPLC)
- General R&D support

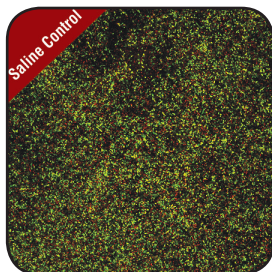
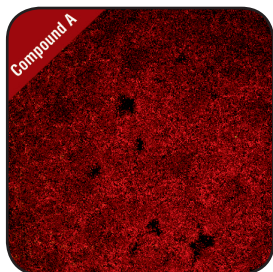
MICROBIOLOGY SERVICES

Spectrum of Antibacterial & Antifungal Testing

- Over 1,500 multi-drug-resistant microbial strains/clinical isolates (bacteria, fungi, and viruses)
- Minimal Inhibitory Concentration (MIC)
- Minimal Bactericidal/Fungicidal Concentration (MBC/MFC)
- Synergy studies — 2D and 3D Checkerboard Assays
- Antimicrobial Effectiveness Testing (AET) and Time-Kill Kinetics
- Post-antibiotic effect studies
- All testing is performed in compliance with CLSI guidelines and ASTM standards
- LAL Endotoxin Testing

Biofilm Profiling

- Minimum Biofilm Eradication Concentration (MBEC) - Calgary Biofilm Device
- Biofilm Inhibition Test



Confocal microscopy of *P. aeruginosa* biofilm using Live/Dead BacLight™ viability kit. Biofilm was treated with saline control of Compound A. Green fluorescence indicates live cells, while red fluorescence indicates dead or compromised cells.

CELL BIOLOGY SERVICES

Cytotoxicity & Cell Viability Testing

- 250+ mammalian cell lines
- Cytokines analysis
- IC₅₀
- High Throughput Screening
- Biomarker Discovery & Analysis

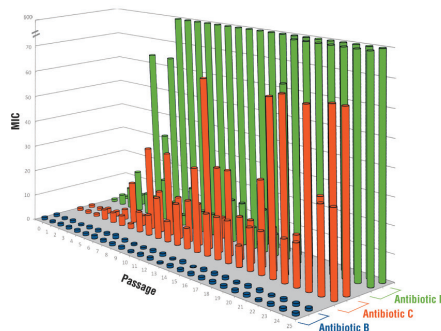
ADME Studies

- Plasma Stability
- Microsomal Stability
- S9 Stability
- Hepatocyte Stability
- Cytochrome P450 Assays
- Hemolysis Testing

Microscopy

- Fluorescent
- Phase Contrast

Resistance Profiling



Serial passage study predicts the development of drug resistant microbial strain *in vitro* to an antibiotic. This graphic displays the results of a 25-day multiple passage study comparing development of resistance of MRSA to Antibiotic B, Antibiotic C, and Antibiotic D in MRSA. No significant increase in MIC was observed for Antibiotic B while MIC for Antibiotics C and D increased up to 256-fold and 64-fold respectively.

CHEMISTRY SERVICES

Chemical Characterization

NMR

- API Characterization Support for NDA, EMA, etc.
- Unknown Impurity Structure Elucidation
- Temperature Controlled (-120 to 120 degrees C)
- **1D NMR:** ¹H, ¹³C, ¹⁹F, ³¹P, ¹¹B, ²⁹Si, and more
- **2D NMR:** COSY, NOESY, HSQC, HMBC, and more

LC-MS

- Tandem Mass Spectroscopy
 - Electrospray Ionization (ESI)
 - Atmospheric Pressure Chemical Ionization (APCI)
- Ultraviolet-Visible (UV-Vis)
- Charged Aerosol Detector (CAD)

Bioanalytical Testing

- Blood Plasma, Serum, Urine, Tissue
- Derivative Chemistry Assays
- Method Development & Validation
- Clinical Pharmacokinetic (PK) Support

Analytical Testing and Method Development

- USP Test Methods
- Raw Material and Formulated Product Analysis
- Controlled Substances (Schedules I – V)
- Dissolution
- Stability Studies

Analytical Test Example

Compound Name:

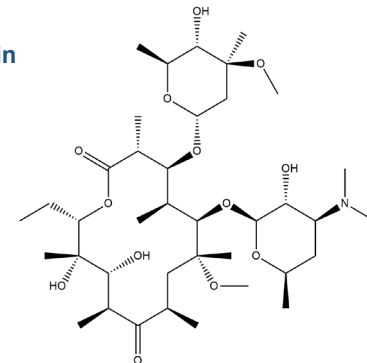
Clarithromycin

Chemical Formula:

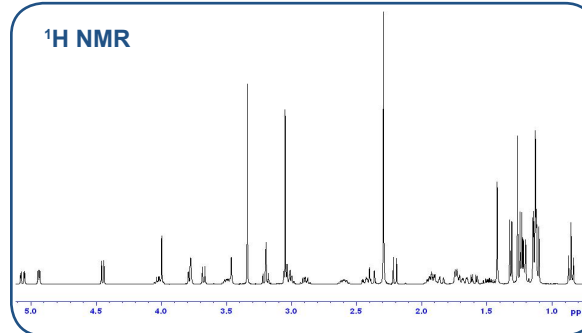
C₃₅H₆₉NO₁₃

M.W.:

747.5



¹H NMR



¹³C NMR

