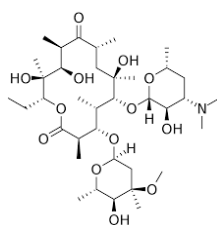
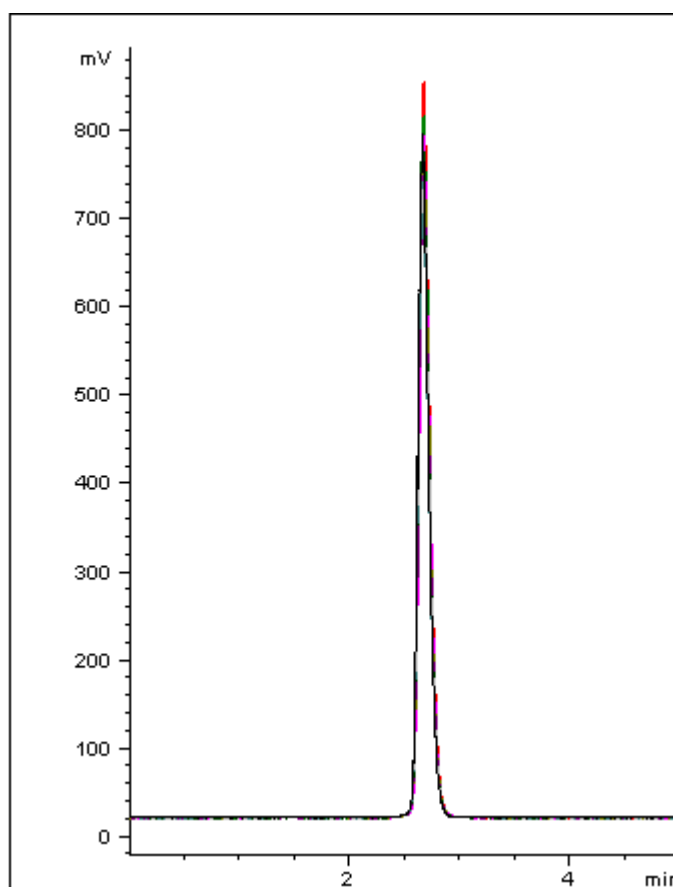


Retention of Erythromycin analyzed with ELSD – AppNote

Erythromycin, a macrolide antibiotic

As this compound lacks chromophores, it typically requires derivatization for use in UV detection. In this method, we retain excellent peak shape without the need for these pre-column derivatization steps saving time and resources.

RSD values (less than 0.5%) demonstrate the consistent and reliable retention, as shown in the 10 injections overlay below.



Peak:

Erythromycin

Method Conditions:

Column: Cogent Diamond Hydride™, 4μm, 100Å.

Catalog No.: [70000-10P](#)

MICROSOLV

Dimensions: 4.6mm x 100mm

Mobile Phase: 50% acetonitrile / 50% DI water / 0.1% formic acid

Injection vol.: 1µL

Flow rate: 1.0mL / minute.

Detection: ELSD, gain: 9, temperature: 50°C, nitrogen: 3.5 bar.

Sample Preparation: 2.0mg / mL Erythromycin HCL in DI water.

Notes: Erythromycin is a macrolide antibiotic used to treat bacterial infections and is also used to prevent recurrent rheumatic fever.



MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com