

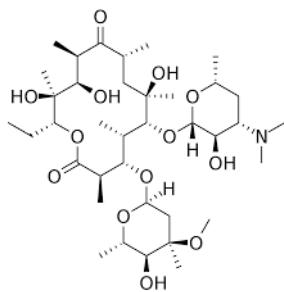
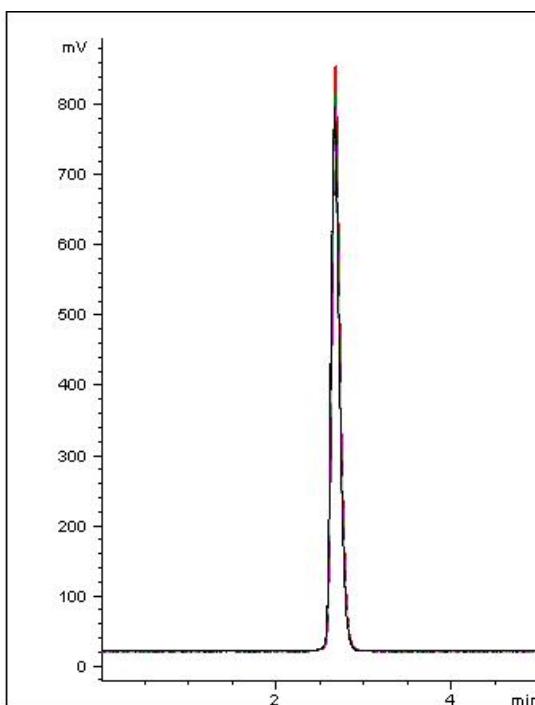


## Erythromycin Analyzed with HPLC ELSD - AppNote

### 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](#)

**Dimensions:** 4.6mm x 100mm

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

**Injection vol.:** 1 $\mu$ L

**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.

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

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