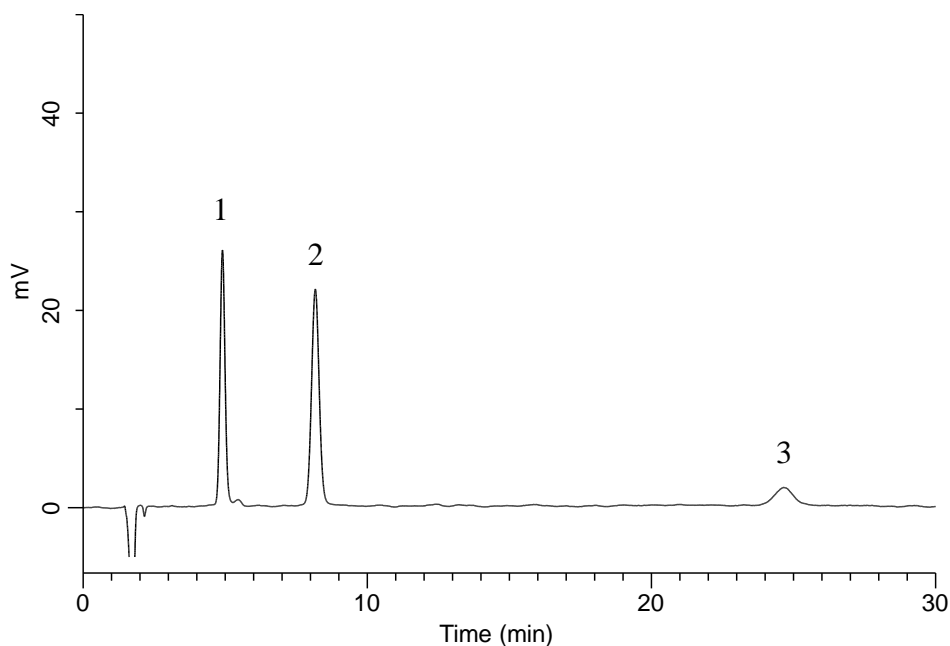


## Analysis of Tetracyclines



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain C18  
 (5  $\mu$  m, 150 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07345  
**Eluent** : A) CH<sub>3</sub>OH  
 B) Imidazole buffer\*  
 A/B = 15/85, v/v  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : FL Ex 380 nm Em 520 nm  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Oxytetracycline	1 mg/L
2. Tetracycline	1 mg/L
3. Chlortetracycline	1 mg/L

\* Imidazole buffer :

Dissolve 68.08 g of imidazole, 0.37 g of disodium ethylenediaminetetraacetate and 10.72 g of magnesium acetate in 800mL of H<sub>2</sub>O.

Adjust to pH 7.2 with acetic acid and dilute this solution to 1,000 mL with H<sub>2</sub>O.