

## Determination of Anticonvulsant drugs and Methyl Xanthine derivatives in serum

**Method** VPH0013J  
**HPLC** RP Mode  
**Sample Preparation:** precolumn loading and washing with Eluent A

**Column:** Eurospher 100-5 C18, 150 x 4.6 mm ID

**Order No.** 15EE181ESJ

**Phase:** Eurospher 100-5 C18

**Conditions:** Eluent: A: 14 mM NaH<sub>2</sub>PO<sub>4</sub> - 6mM Na<sub>2</sub>HPO<sub>4</sub>  
B: Eluent A / Acetonitrile / Methanol (6.5:1.5:2)  
Gradient: isocratic  
Flow rate: 0.8 ml/min  
Temperature: 25 °C  
Volume: 20 µl

**Detection:** UV at 230 nm

**Substances:** Primidone, Phenobarbital, Phenytoin, Carbamazepine

**Keywords:** Drugs, Anticonvulsant drugs

### Chromatogram:

1. Primidone (10 µg/ml)
2. Phenobarbital (10 µg/ml)
3. Phenytoin (20 µg/ml)
4. Carbamazepine (5 µg/ml)

