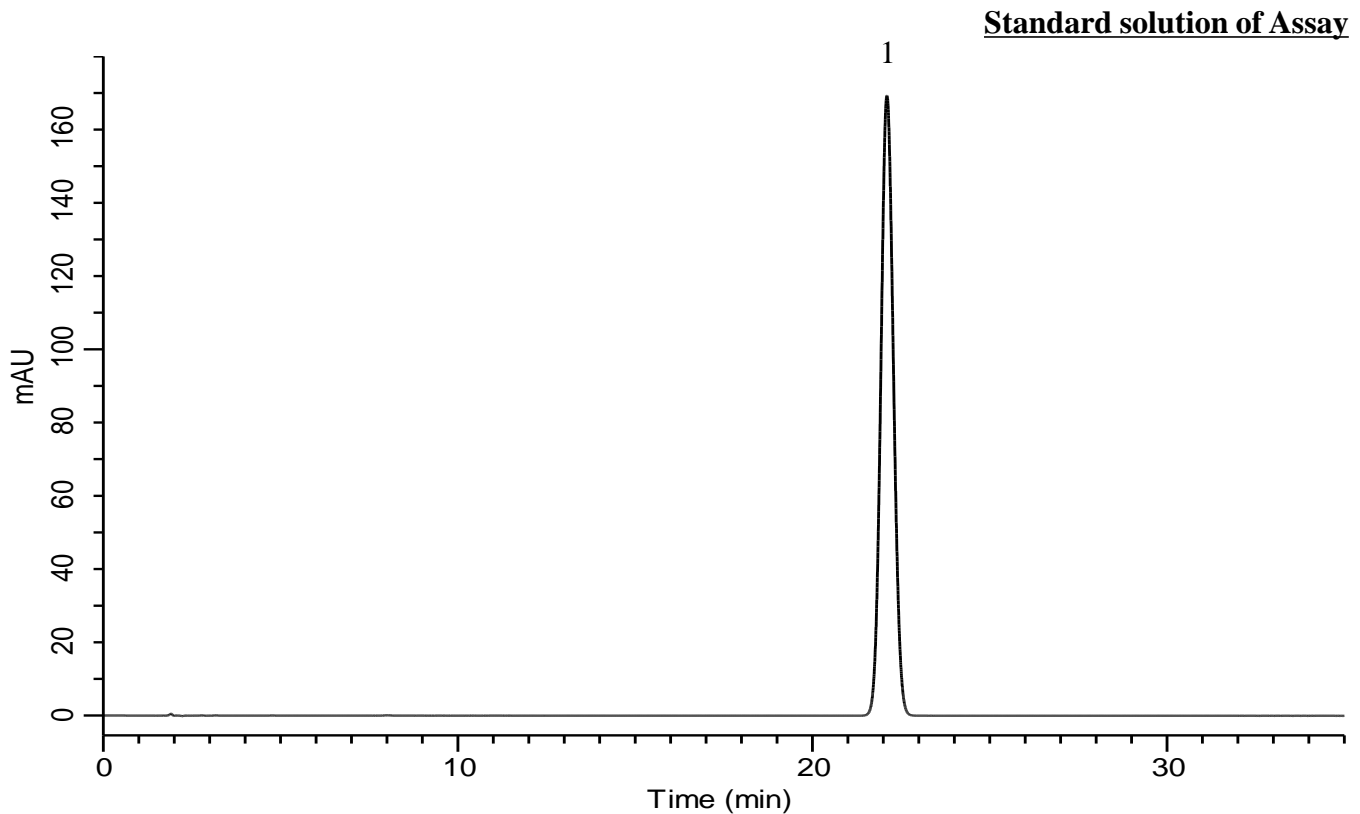


## Analysis of Mirtazapine

(Under the Condition of draft for USP, Mirtazapine Compounded Oral Suspension, Veterinary)



### Conditions

**System** : GL7700 HPLC system  
**Column** : Inertsil ODS-3 (5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-01732  
**Eluent** : Buffer\*  
**Flow rate** : 1.5 mL/min  
**Col. Temp.** : 60 °C  
**Detection** : UV 295 nm (UV7750 UV Detector)  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

### **Analyte:**

1. Mirtazapine 500 mg/L  
  
 Symmetry factor (1) : 1.06 (< 2.0)  
 RSD of the peak area of 1 (%) (n=6) : 0.18 (< 2.0)

\*Add 23.5 mL of 25% tetramethylammonium hydroxide solution to 626.5 mL of water.

Adjust with phosphoric acid to a pH of 7.4. Add 150 mL of acetonitrile, 125 mL of methanol, and 75 mL of tetrahydrofuran.