

## Analysis of Bisphosphonate Pamidronate Disodium by precolumn derivatization and fluorescence detection

**Method** VPH0024J  
**HPLC** RP Mode

**Column:** Eurospher 100-5 C18, 250 x 4.0 mm ID

**Order No.** 25DE181ESJ

**Phase:** Eurospher 100-5 C18

**Conditions:** Eluent: A: 1 mM aqueous Na<sub>2</sub>EDTA, adjusted to pH 6.5 with 1 M NaOH  
B: Methanol  
Gradient: isocratic A:B 97:3  
Flow rate: 1.0 ml/min  
Temperature: ambient  
Volume: 20 µl

**Detection:** Fluorescence: excitation 395 nm, emission 480 nm  
a. drug-free human urine    b. drug-free dog urine  
c. urine from a dog receiving a single intravenous injection of 5 mg of pamidronate disodium in 0.15 M saline

**Substances:** Pamidronate disodium,  
Disodium 3-amino-1-hydroxypropylidenebisphosphonate pentahydrate (IS)

**Keywords:** Drugs

### Chromatogram:

1. Injection Peak
2. Pamidronate
3. Internal Standard (IS)

