

CoreFocus Report

No.175A

LC

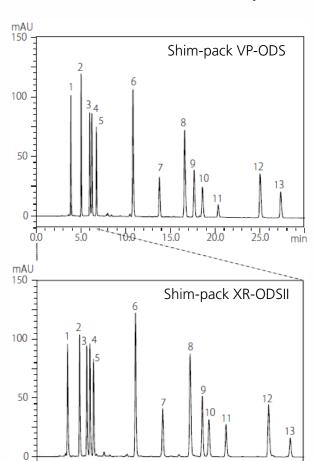
Reversed-phase

**Shim-pack Series** 

### Shim-pack™ VP-ODS and Shim-pack XR-ODS II

## **Analysis of Cefem Antibiotics**

### Keywords: β-lactam antibiotics



- 1. Cefadroxil
- 2. Cephapirin
- 3.Cefaclor
- 4. Cephalexin
- 5. Cephradine
- 6. Cefotaxime
- 7. Cefazolin
- 8. Cefuroxime 9. Cefoperazone
- 10. Cefoxitin
- 11. Cefamandole A
- 12. Cephalothin
- 13. Cefamandole B (50 mg/L each)

System Shim-pack VP-ODS

(250 mm x 4.6 mm I.D., 5 μm), P/N : 228-34937-92

Shim-pack XR-ODS II

(150 mm x 3.0 mm I.D., 2.2 μm), P/N : 228-41624-93

Mobile phase A) 0.1 % Formic acid in water

B) Acetonitrile

: [VP-ODS] Time program

B. Conc. 15 % (0 min) → 55 % (35 min) → 15 % (35.01- 50 min)

[XR-ODS **I**]

B. Conc. 15 % (0 min)  $\rightarrow$  55 % (6.95 min)  $\rightarrow$  15 % (6.96- 10 min)

Ontime injection 343 µL

Flowrate 0.7 mL/min (VP-ODS) 0.9 mL/min (XR-ODS II) Column temp. 40 °C

Injection volume

5 μL (VP-ODS) 2 μL (XR-ODS II)

Detection : LC-2040C 3D at 260 nm Flow cell : High-speed high-sensitivity cell

Source: Application News L475 (JP, ENG)

2.0

3.0

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5.0

min

4.0

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