

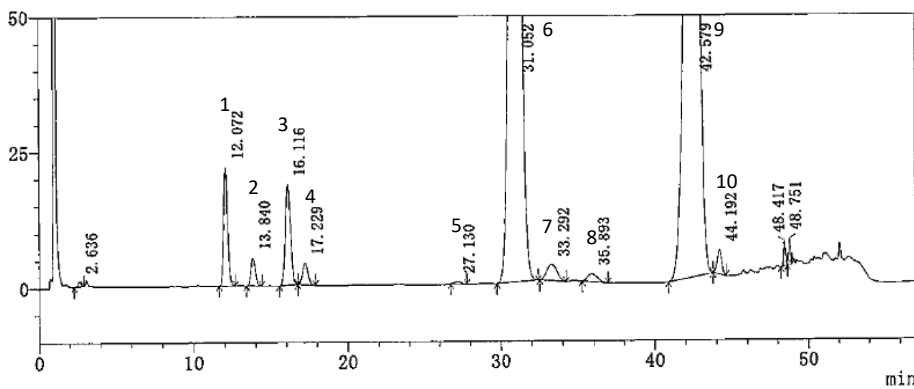
CoreFocus
Report
No.293

LC Reversed-phase Shim-pack Series

Shim-pack™ GIS C18

Analysis of Cefpodoxime Proxetil Related Substances

Keywords: antibiotic



1. Impurity J- I
2. Impurity K- I
3. Impurity J- II
4. Impurity K- II
5. Impurity B- I
6. Cefpodoxime proxetil isomer-A
7. Impurity C+ B- II
8. Impurity D- I
9. Cefpodoxime proxetil isomer-B
10. Impurity D- II

Sample: System suitability solution
Take Cefpodoxime Proxetil reference (approximately equivalent to 50 mg of Cefpodoxime), put it in a 50 mL measuring flask, add a diluting solvent [water-acetonitrile-acetic acid (99:99: 2)], and place a UV lamp after irradiating for 12 hours, add 3 mL of 30 % hydrogen peroxide solution, leave it for 60 minutes, dilute to the mark with the above diluent solvent.

Column	: Shim-pack GIS C18 (100 mm x 2.1 mm I.D., 2 μm), P/N : 227-30093-04
Mobile phase	: A) Water : Methanol : Formic acid = 700 : 300 : 1 B) Water : Methanol : Formic acid = 50 : 950 : 1
Time program	: B conc. 12 % (0-40 min) → 90 % (50-51 min) → 12 % (52-57 min)
Flow rate	: 0.3 mL/min
Column temp.	: 30 °C
Injection vol.	: 5 μL
Vial	: SHIMADZU LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 254 nm

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