

CoreFocus
Report
No.67

LC

Reversed-phase

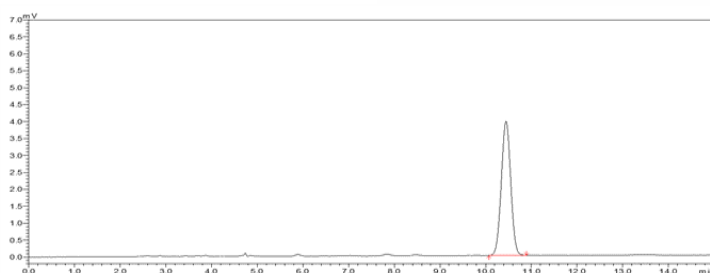
Shim-pack Series

Shim-pack™ GIST C18-AQ

Analysis of Amoxicillin capsule

Keywords: Antibiotic, β -lactam antibiotic

Chromatogram of Standard Mix



1. Amoxicillin Thiazole Acid
2. Amoxicillin
3. 2'5'-Diketopiperazine-2(S) Amoxicillin
4. Amoxicillin closed-loop dimer
5. Amoxicillin closed-loop trimer

Standard Mix

Amoxicillin Standard Mix (20 μ g/mL in Mobile phase A)

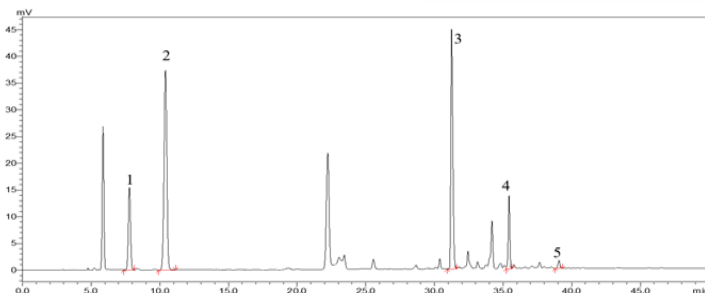
System suitability solution

Amoxicillin System Suitability Solution (20 μ g/mL in Mobile phase A)

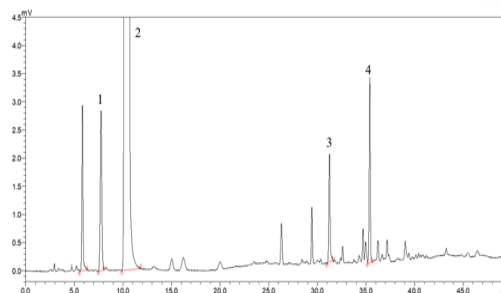
Amoxicillin capsule

Amoxicillin capsule (20 μ g/mL in Mobile phase A)

Chromatogram of System suitability solution



Chromatogram of Amoxicillin capsule



Column	: Shim-pack GIST -AQ (250 mm x 4.6 mm I.D., 5 μ m), P/N : 227-30742-08
Mobile phase	: A) 0.05 mol/L Potassium dihydrogenphosphate Buffer(pH 5.0)* : Acetonitrile = 99 : 1 B) 0.05 mol/L Potassium dihydrogenphosphate Buffer(pH 5.0)* : Acetonitrile = 80 : 20
Gradient Program	: 8%B (0 min – 12 min) – 100%B (37 min – 52 min) – 8%B (53 min – 67 min)
Flow rate	: 1 mL/min
Column temp.	: 30°C
Injection vol.	: 20 μ L
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 254 nm

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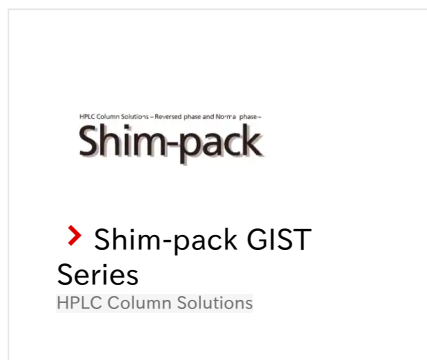
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