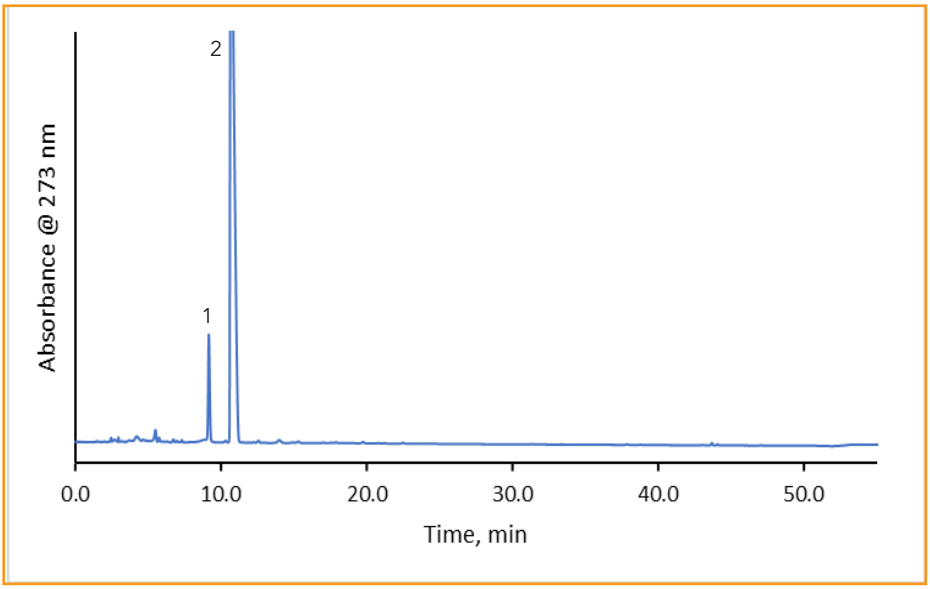
HALO®

PHARMACEUTICALS

Cefuroxime Sodium According to Chinese Pharmacopoeia (CP) Method

259-CP



TEST CONDITIONS:

Column: HALO 90 Å C8, 5 µm, 4.6 x 250 mm
Part Number: 95814-902
Mobile Phase A: 0.68 g sodium acetate with water (1000mL) pH 3.4 (acetic acid)
Mobile Phase B: Acetonitrile
Gradient:

Time	%B
0.0	5
40.0	20
50.0	40
51.0	5
55.0	5

Flow Rate: 1.5 mL
Temperature: 35 °C
Detection: UV 273 nm, PDA
Injection Volume: 20 µL (0.5 mg/mL)
Initial Back Pressure: 208 bar
Sample Solvent: water
Data Rate: 100 Hz
Response Time: 0.025 sec
Flow Cell: 1 µL
LC System: Shimadzu Nexera X2LC System

PEAK IDENTITIES

1. Dicarbamoyl cefuroxime
2. Cefuroxime sodium

Cefuroxime is an antibiotic used to prevent several types of bacterial infections. A HALO 90 Å C8 column is used to separate dicarbamoyl cefuroxime from cefuroxime, achieiving high resolution. The main peak eluted in one third of the total analysis time with no peaks of interest eluting in the remainder of the specified CP assay. This illustrates the potential modernization of the assay with HALO® 5 micron particles for a 20 min assay.

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