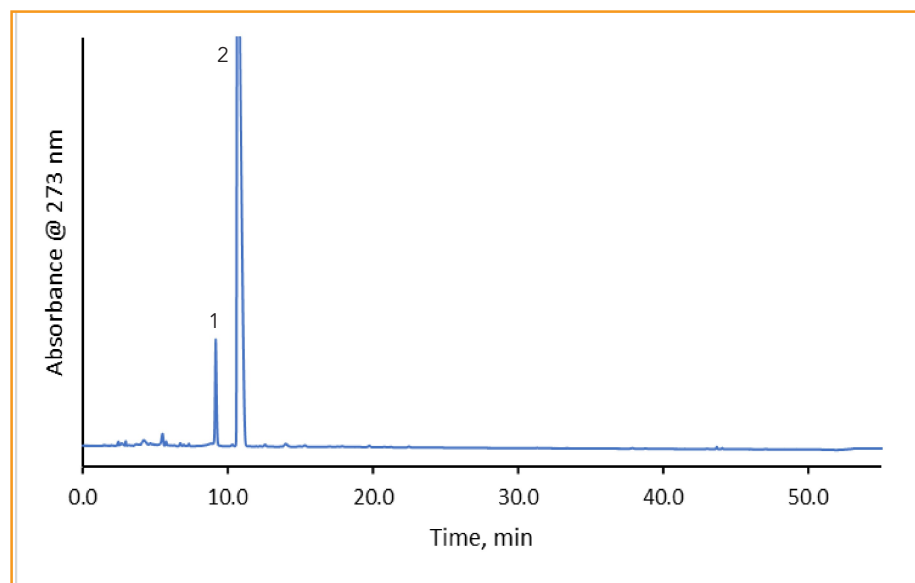




Cefuroxime Sodium According to Chinese Pharmacopoeia (CP) Method

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, achieving 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.

