

IC Application Note No. U-29

Title: Assay of Cloxacillin sodium according to USP

Summary: Determination of Cloxacillin sodium according to USP 28-NF 23 (second supplement) using RP chromatography with UV detection.

Sample: Cloxacillin sodium

Sample Preparation: Dissolve 107.00 mg sample in 200 mL phosphate buffer pH = 6.8

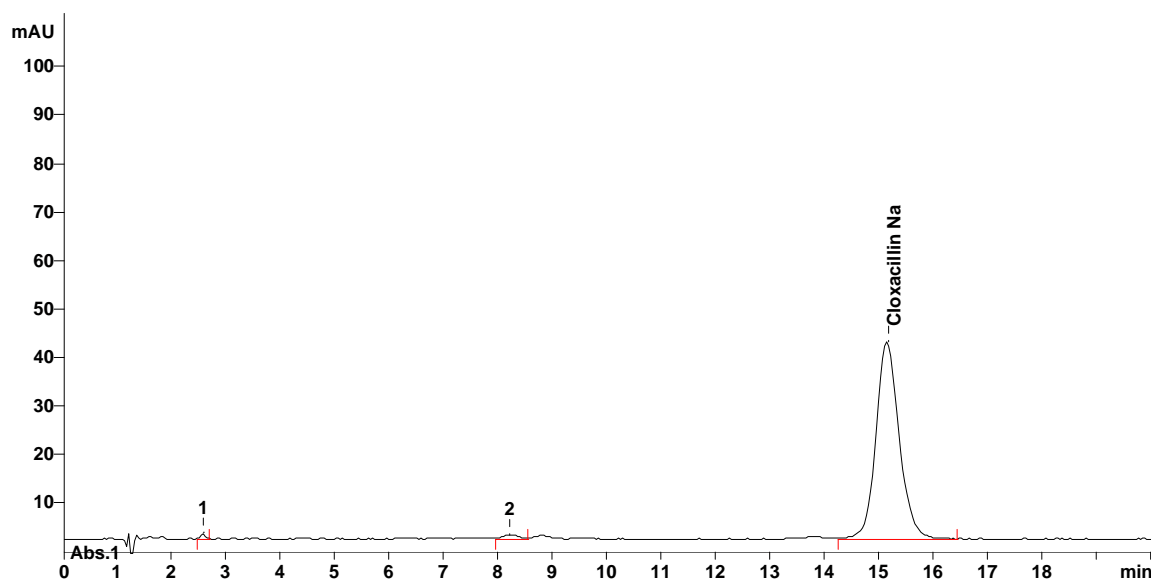
Column: 6.1008.100 ProntoSil 120-5-C18 AQ 150

Wavelength: 225 nm

Eluent: 0.02 mol/L potassium dihydrogen phosphate (pH = 6.8, with 2 mol/L NaOH) / acetonitrile (80:20)

Flow: 1.0 mL/min

Injection Volume: 20 µL



Chromatogram:

Cloxacillin sodium
mg/mL

0.532

Results:

Test factors	Value	Limit	Result
Tailing factor	1.3	Less than 1.8	PASS
RSD n=3	1.6 %	Less than 2.0 %	PASS