

IC Application Note No. U-43

Title: Assay determination of Cefadroxil according to USP

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

Sample: Cefadroxil tablets

Sample Preparation: One tablet is dissolved in 1 L ultrapure water, injection after subsequent filtration (0.45 µm) and 1:5 dilution

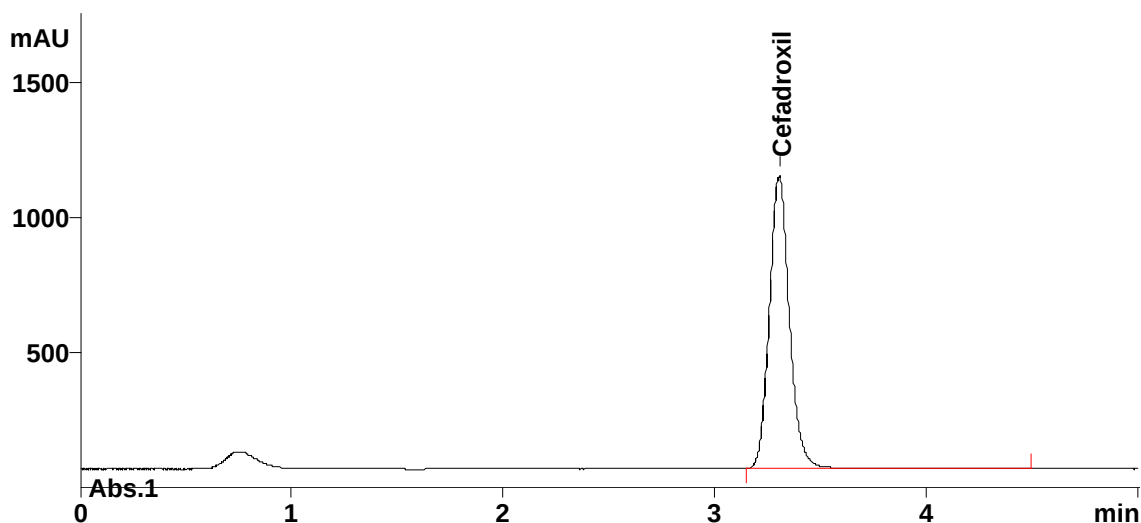
Column: 6.1008.100 ProntoSil 120-5-C18 AQ, 150 mm

Wavelength: 230 nm

Eluent: Phosphate buffer pH = 5.0 / acetonitrile (96:4)

Flow: 1.5 mL/min

Injection Volume: 10 µL



Chromatogram:	Cefadroxil mg/mL
	0.199

Results:

Test factors	Value	Limit	Result
Theoretical plates	5577	More than 1800	PASS
Tailing factor	1.2	Less than 2.2	PASS
RSD (% , n = 3)	0.4	Less than 2.0	PASS