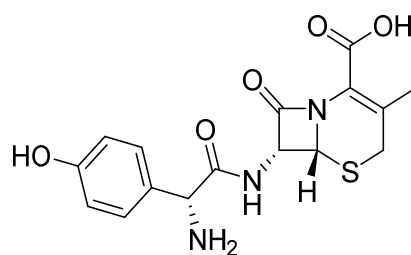


Cefadroxil



Cefadroxil

Cefadroxil is a broad-spectrum antibiotic of the cephalosporin type, effective in Gram-positive and Gram-negative bacterial infections. It is a bactericidal antibiotic. Cefadroxil is used as an antibiotic prophylaxis before dental procedures especially in case of penicillin allergy.

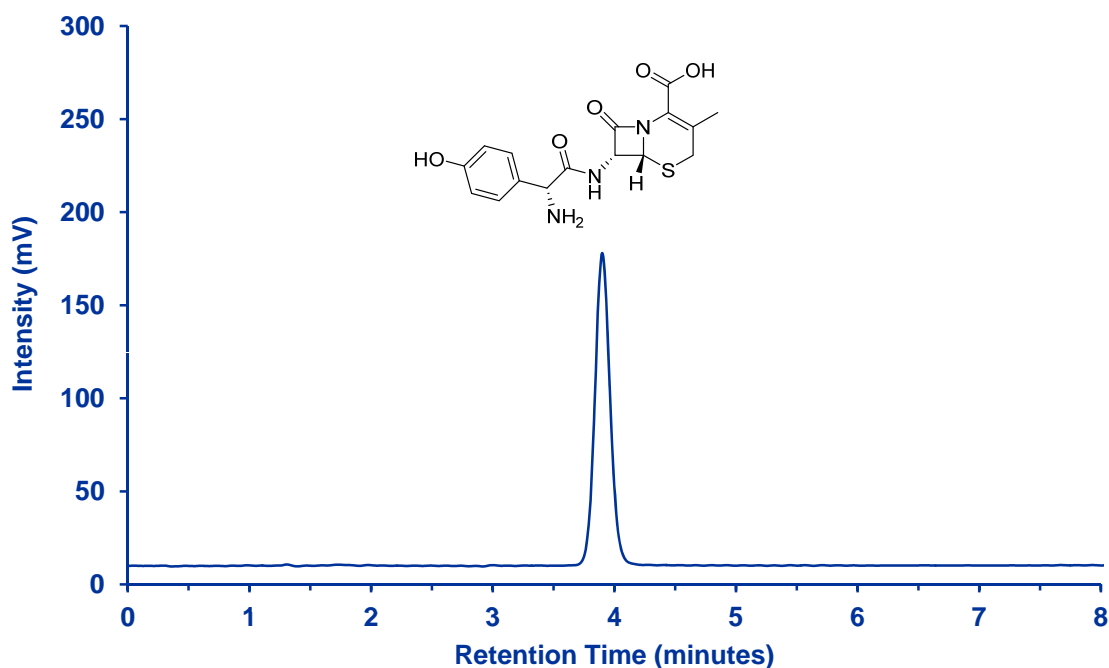
Impurity profiling of cefadroxil according to the current USP is by TLC with UV detection relative a 100 times diluted cefadroxil test solution.

Cefadroxil

SeQuant[®] ZIC[®]-cHILIC

Chromatographic Conditions

Column:	SeQuant [®] ZIC [®] -cHILIC (3 μm, 100 Å) PEEK 150 × 4.6 mm	1.50661.0001
Injection:	10 μL	
Detection:	Shimadzu LC-10A, UV 254 nm	
Cell:	8 μl	
Flow Rate:	1.5 mL/min	
Mobile Phase:	Buffer: Dissolve 1.26 g of ammonium acetate in 1000 ml water (200 mM). Adjust to pH 4.5 using formic acid Mix Acetonitrile and Buffer 90:10 (v/v)	
Temperature:	30 °C	
Diluent	Mobile phase	
Sample:	100 ppm cefadroxil in mobile phase	
Pressure Drop:	175 Bar (2450 psi)	



Chromatographic Data

No.	Compounds	Retention Time (min)	k'	Resolution	Theoretical Plates	Tailing Factor
1	Cefadroxil	3.9	2.9	-	4700	1.1