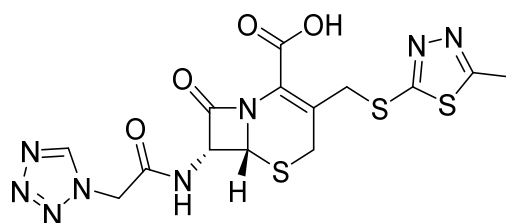


# Cefazolin



Cefazolin

Cefazolin is mainly used to treat bacterial infections of the skin. It can also be used to treat moderately severe bacterial infections involving the lung, bone, joint, stomach, blood, heart valve, and urinary tract. It is clinically effective against infections caused by staphylococci and streptococci of Gram-positive bacteria. These organisms are common on normal human skin. Cefazolin is extensively used as prophylaxis antibiotic before wide range of surgical operations.

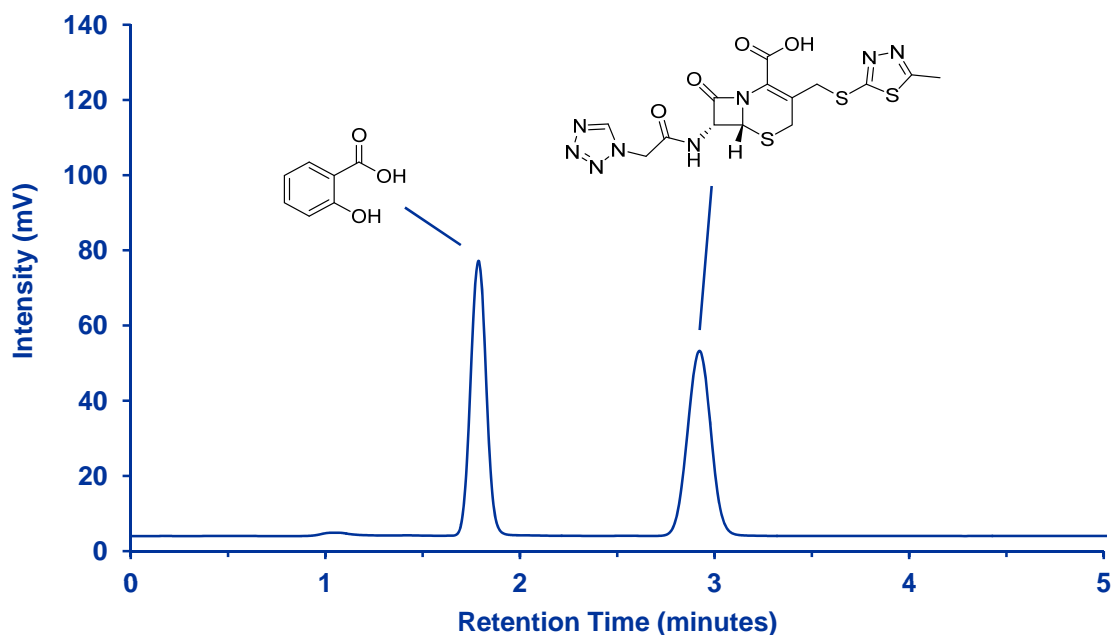
The USP impurity profiling method is a gradient method starting at 98% phosphate buffer with a 65 minute cycle time.

# Cefazolin

## 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 7.7 g of ammonium acetate in 1000 ml water (100 mM).  
 Mix Acetonitrile and Buffer 90:10 (v/v)  
 Temperature: 30 °C  
 Diluent: Mobile phase  
 Sample: 50 ppm cefazolin and 400 ppm salicylic acid in mobile phase in mobile phase  
 Pressure Drop: 118 Bar (1652 psi)



### Chromatographic Data

No	Compounds	Retention Time(min)	K'	Resolution	Theoretical Plates	Asymmetry
1	Salicylic acid (IS)	1.8	0.7	-	2400	1.0
2	Cefazolin	2.9	1.8	6.2	2800	1.0