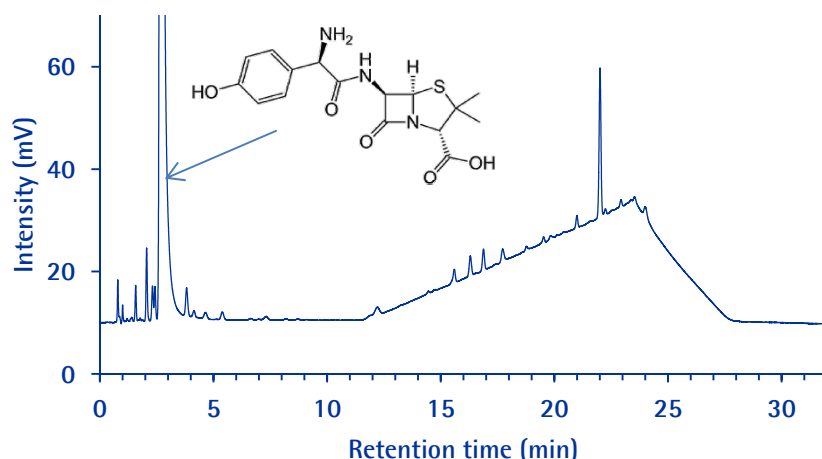


Amoxicillin and Related Substances

Purospher® STAR RP-18 endcapped

Chromatographic Conditions

Column:	Purospher®STAR RP-18 endcapped (3µm) Hibar® RT 100x4.6 mm	1.50469.0001
Injection:	10 µL	
Detection:	UV 210 nm	
Flow Rate:	1.5 mL/min	
Mobile Phase(v/v):	Solution A: 2.72 g/L of monobasic potassium phosphate. Adjust pH to 5.0 with 1M potassium hydroxide solution.. Solution B: Methanol	
Gradient:	See table	
Temperature:	40 °C (column) and 4 °C (autosampler)	
Standard:	Dissolve 1.25 mg of amoxicillin standard in Solution A and dilute to 100 mL with same solvent.	
Sample:	Weigh 125 mg of amoxicillin sample and dissolve in solution A. Dilute to 100 mL with same solvent. Use solution within four hours of preparation.	
Pressure Drop:	160 Bar to 215 Bar (2320 psi to 3118 psi)	



Time	% A	% B
0.01	97	3
10.0	97	3
22.0	75	25
26.0	97	3
32.0	97	3

Chromatographic Data

No.	Compound	Retention Time (min)	RRT	Tailing Factor
1	Amoxicillin related compound I	1.00	0.36	1.0
2	Amoxicillin related compound D	1.58	0.57	1.2
3	Amoxicillin related compound A	2.06	0.75	1.0
4	Amoxicillin related compound B	2.32	0.84	1.2
5	Amoxicillin	2.75	1.00	
6	Amoxicillin related compound E	12.21	4.44	1.1
7	Amoxicillin related compound M	16.30	5.93	1.0
8	Amoxicillin related compound F	16.88	6.12	0.9
9	Amoxicillin related compound C	17.73	6.45	1.0
10	Amoxicillin related compound J	24.00	8.73	1.0