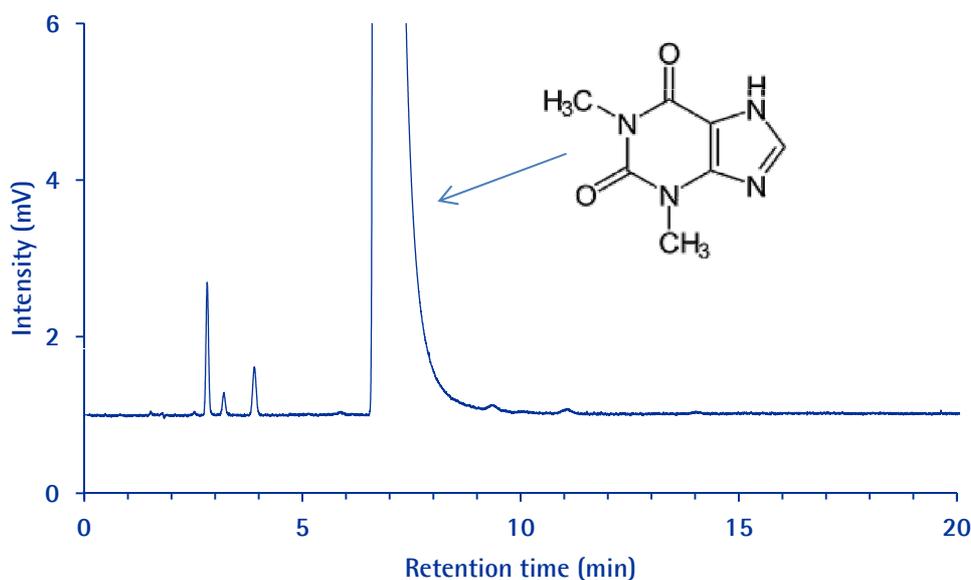


Theophylline and Related Impurities

Purospher® STAR RP-18 endcapped

Chromatographic Conditions

Column: Purospher® STAR RP-18 endcapped (5µm) Hibar® RT 250x4.6 mm 1.51456.0001
 Injection: 20 µL
 Detection: UV 272 nm
 Cell: 10 µL
 Flow Rate: 2.0 mL/min
 Mobile Phase: Weigh 1.36 g of sodium acetate and dissolve in 1000mL of Milli-Q water containing 5 mL glacial acetic acid. Mix buffer and acetonitrile 93:7 (v/v)
 Temperature: 25 °C
 Diluent: Mobile phase
 Sample: Dissolve 40 mg of substance in 20 mL mobile phase
 Pressure Drop: 257 Bar (3726 psi)



Chromatographic Data

No.	Compound	Retention Time (min)	Resolution	RRT
1	Impurity C	2.8	-	0.41
2	Impurity B	3.2	3.4	0.48
3	Impurity D	3.9	5.2	0.58
3	Theophylline	6.7	14.8	1.00