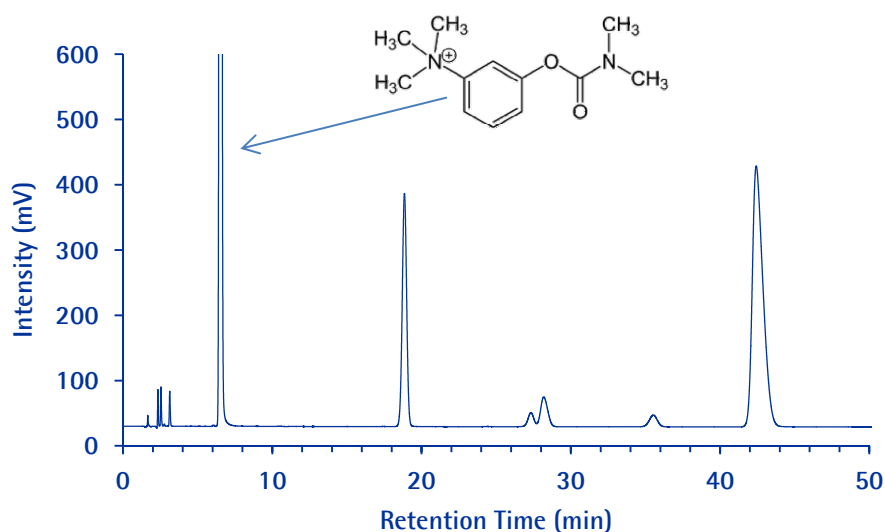


Neostigmine Sulfate and Related Impurities

Purospher® STAR RP-8 endcapped

Chromatographic Conditions

Column:	Purospher® STAR RP-8 endcapped (5µm) Hibar® RT 250x4.6 mm	1.51454.0001
Injection:	20 µL	
Detection:	UV 220 nm	
Cell:	10 µL	
Flow Rate:	1.2 mL/min	
Mobile Phase:	Dissolve 4.14 g of sodium dihydrogenphosphate in 1000 mL Milli-Q water. 300 ml of Acetonitrile & 4.33 gm of Sodium dodecyl sulfate & filter.	
Temperature:	30 °C	
Standard:	Take 50 mg of Neostigmine methylsulfate in 50 ml volumetric flask and dissolve in mobile phase.	
Sample:	Take 50 mg of sample in 50 ml volumetric flask and dissolve in mobile phase.	
Pressure Drop:	140 Bar(2030 psi)	



Chromatographic Data :

No.	Compound	Time (min)	Asymmetry	Theoretical Plate
1	3-Dimethylphenol	2.3	1.3	11233
2	3-Trimethylammoniumphenolmethylsulfate	2.5	1.2	10152
3	3-Dimethyl-Carbamoyl-N,N-dimethylaniline	3.1	1.2	12226
4	Neostigmine methylsulfate	6.5	1.3	13936
5	Methylnostigmine	18.9	1.0	19297
6	Ethylneostigmine	42.4	1.4	15790