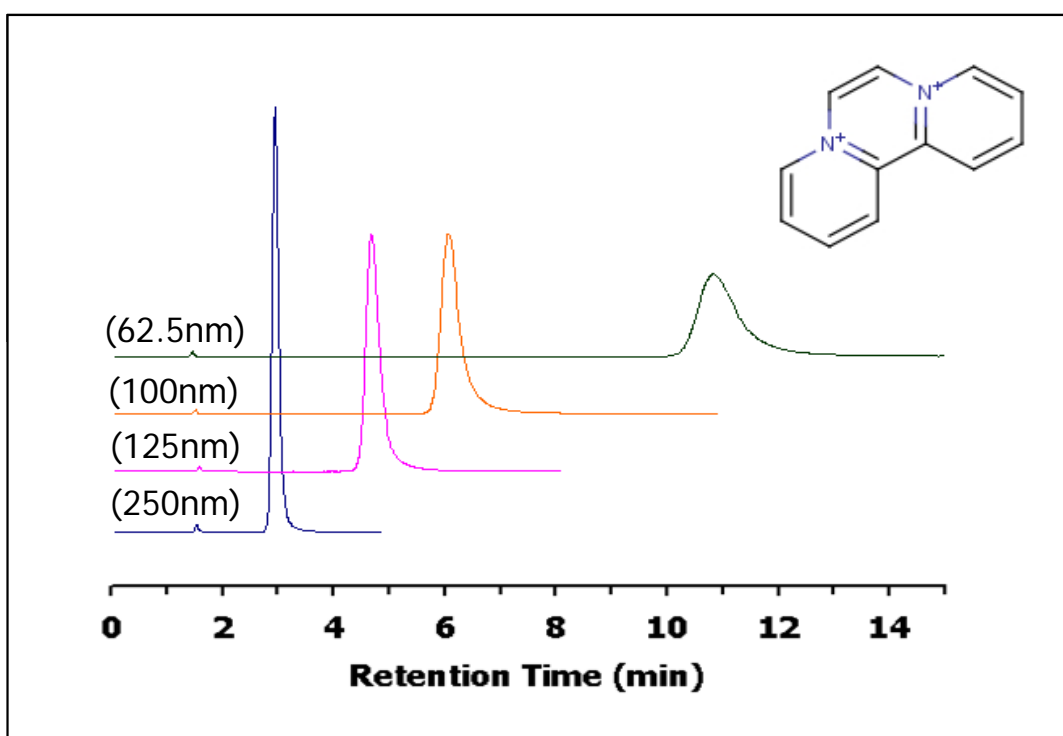


ZIC® -pHILIC Separation of Diquat - Ionic Strength Influence

Chromatographic Conditions

Column: ZIC®-pHILIC, PEEK 150 x 4.6 mm, 5 µm (P/N 150461)
 Injection: 5 µL of a 50 ppm solution diluted in acetonitril/water (1:1)
 Detection: UV @ 313 nm
 Column Temperature: 40°C
 Flow Rate: 1.0 mL/min
 Mobile Phase (v/v): Acetonitrile/ X mM ammonium acetate pH3.7 (40:60 v/v)
 (Total ionic strength: 37.5-150 mM)



Chromatographic Data

No.	Compound	Ionic Strength (mM)	Time (min)	Retention factor
t_0	void volume		1.4	-
1	Diquat	150	2.9	1.1
2	Diquat	75	4.6	2.4
3	Diquat	60	6.0	3.4
4	Diquat	37.5	10.7	6.9

Data kindly provided by Dr Norikazu Nagae, ChromaNik Technologies Inc., Japan