

# Rapid Gradient Equilibration Produces More ThroughPut

**Equilibration Study of Stationary Phases, Reversed Phase Mode; Gradient Chromatography**

Equilibrate these columns in one minute:  
This study shows longer times have no impact.

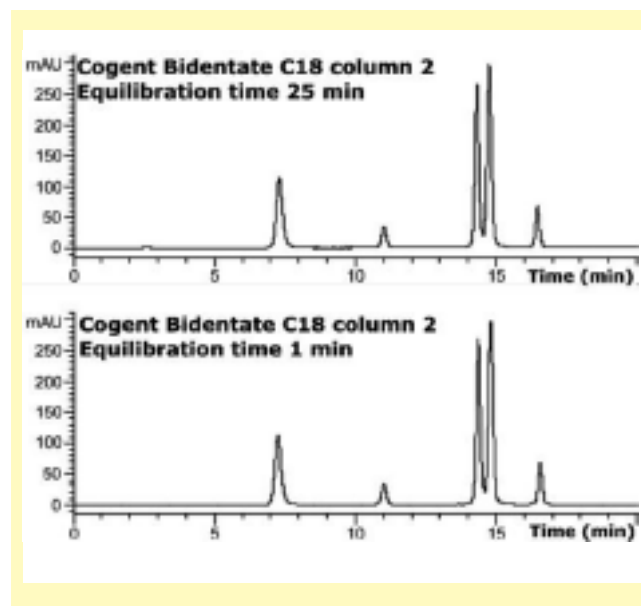
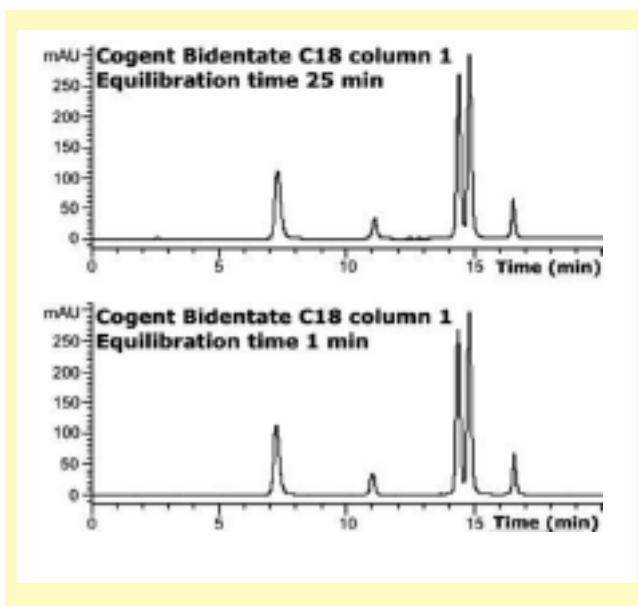
### Method Conditions

**Column:** See individual charts  
**Dimensions:** 4.6 x 75 mm  
**Flow rate:** 0.5 mL/min  
**Gradient program:** 0-3 min ACN/water (50:50)  
 3-18 min to 100% ACN  
 18-23 min 100% ACN  
 Equilibration to 50:50 ACN/water

### Equilibration Time

**Frame A:** Equilibration time 25 min  
**Frame B:** Equilibration time 1 min.

For more information visit [www.MTC-USA.com](http://www.MTC-USA.com)



Solute	Retention Time (min)		
	25*	10*	1*
Benzene	7.30	7.35	7.25
Naphthalene	11.10	11.07	11.01
Phenanthrene	14.39	14.37	14.37
Anthracene	14.81	14.80	14.80
Pyrene	16.52	16.51	16.56

\*Equilibration Time

Solute	Retention Time (min)		
	25*	10*	1*
Benzene	7.30	7.27	7.25
Naphthalene	11.01	11.00	11.01
Phenanthrene	14.32	14.31	14.37
Anthracene	14.75	14.75	14.8
Pyrene	16.47	16.50	16.55

\*Equilibration Time

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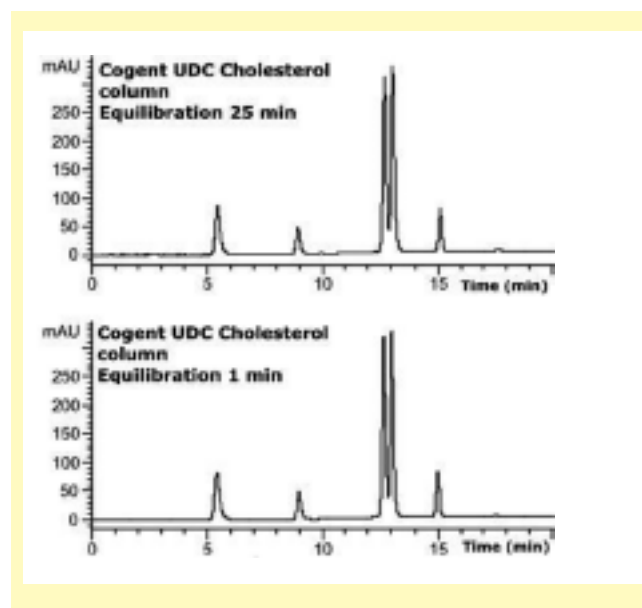
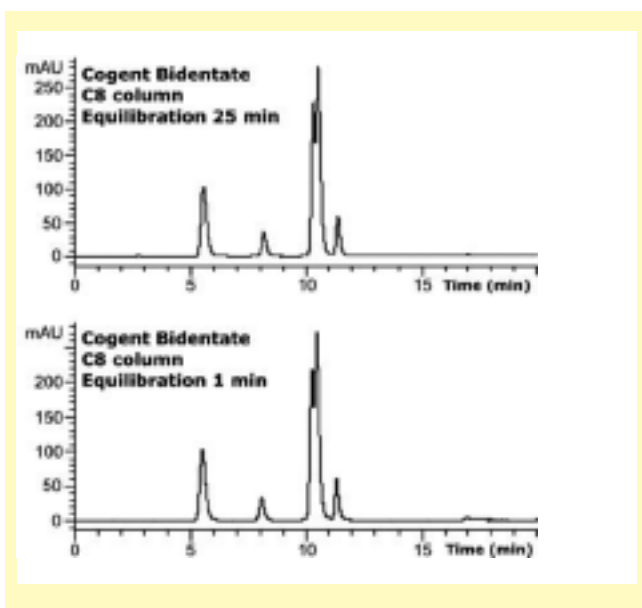
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Solute	Retention Time (min)		
	25*	10*	1*
Benzene	5.58	5.57	5.52
Naphthalene	8.18	8.17	8.09
Phenanthrene	10.31	10.33	10.25
Anthracene	10.53	10.55	10.47
Pyrene	11.38	11.40	11.33

\*Equilibration Time

Solute	Retention Time (min)		
	25*	10*	1*
Benzene	5.49	5.45	5.43
Naphthalene	9.00	8.97	8.99
Phenanthrene	12.70	12.65	12.68
Anthracene	13.03	13.00	13.02
Pyrene	15.08	15.03	15.00

\*Equilibration Time



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