

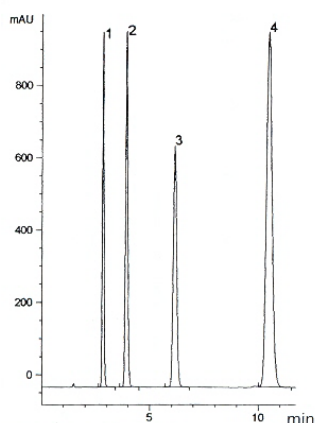
# APPLICATION NEWS

## Chromegabond™ Ultra HPLC Columns

**Chromegabond Ultra™** – The Chromegabond Ultra line *is an equivalent to the Beckman Ultrasphere® columns*. The most popular material, Ultra C18 is available in 3µ and 5µ sizes with bulk and preparative material also available. Excellent efficiencies, peak shape and resolution are obtained for virtually all Ultrasphere® HPLC applications.

Specifications – Surface Area: 200m<sup>2</sup>/g; Carbon: 11.9%; pH: 2 to 8

Ultrasphere C18 5µ

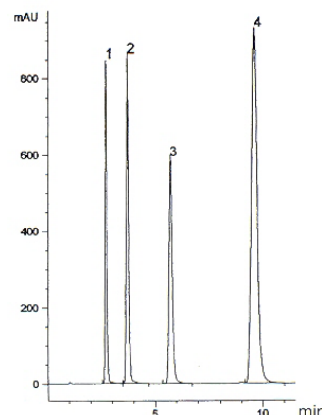


### 4-HYDROXYBENZOATES

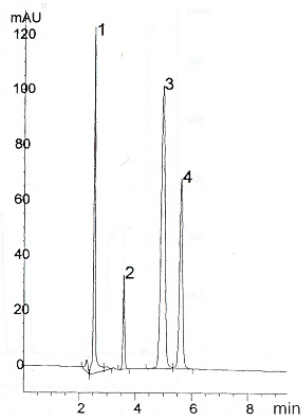
**Dimensions:** 150 x 4.6mm  
**Mobile Phase:** Water/Acetonitrile (40:60)  
**Flow Rate:** 1.0 mL/min  
**Detection:** UV @ 254nm  
**Sample:**

1. Methyl 4-hydroxybenzoate
2. Ethyl 4-hydroxybenzoate
3. Propyl 4-hydroxybenzoate
4. Butyl 4-hydroxybenzoate

Chromegabond Ultra C18 5µ



Ultrasphere C18 5µ

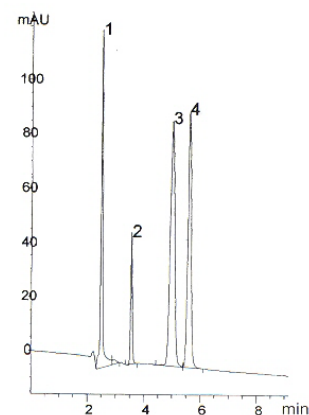


### POLAR COMPOUNDS

**Dimensions:** 250 x 4.6mm  
**Mobile Phase:** 25mM KH<sub>2</sub>PO<sub>4</sub>, pH 2.5  
**Flow Rate:** 1.0 mL/min  
**Temperature:** 40°C  
**Detection:** UV @ 230nm  
**Sample:**

1. L-Cysteine
2. L-Ascorbic Acid
3. Glutathione
4. Uric Acid

Chromegabond Ultra C18 5µ



CONDITIONS:

Column: Chromegabond Ultra C18 5micron 150 X 4.6mm

Sample: Carbamate Insecticides

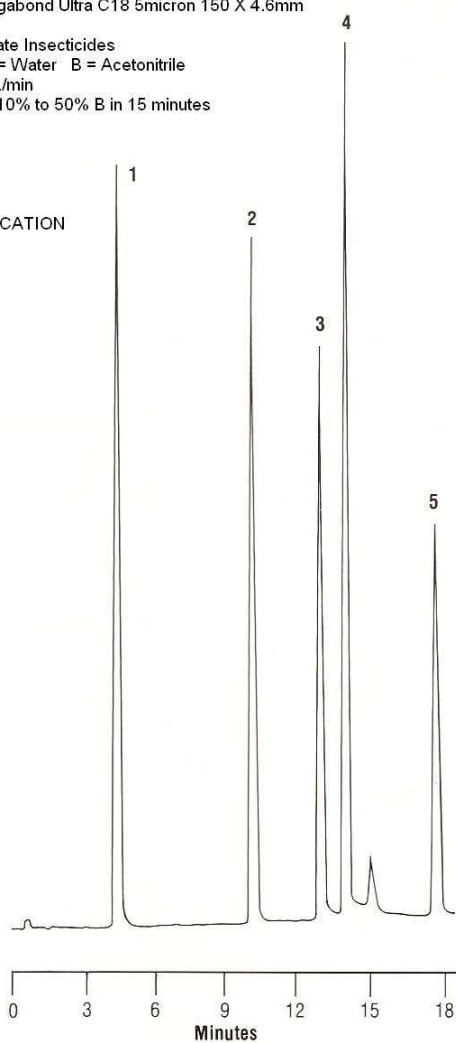
Mobile Phase: A = Water B = Acetonitrile

Flow Rate: 1.6mL/min

Gradient Profile: 10% to 50% B in 15 minutes

PEAK IDENTIFICATION

1. Methomyl
2. Aldicarb
3. Carbofuran
4. Carbaryl
5. Methiocarb



CONDITIONS:

Column: Ultrasphere C18 5micron 150 X 4.6mm

Sample: Carbamate Insecticides

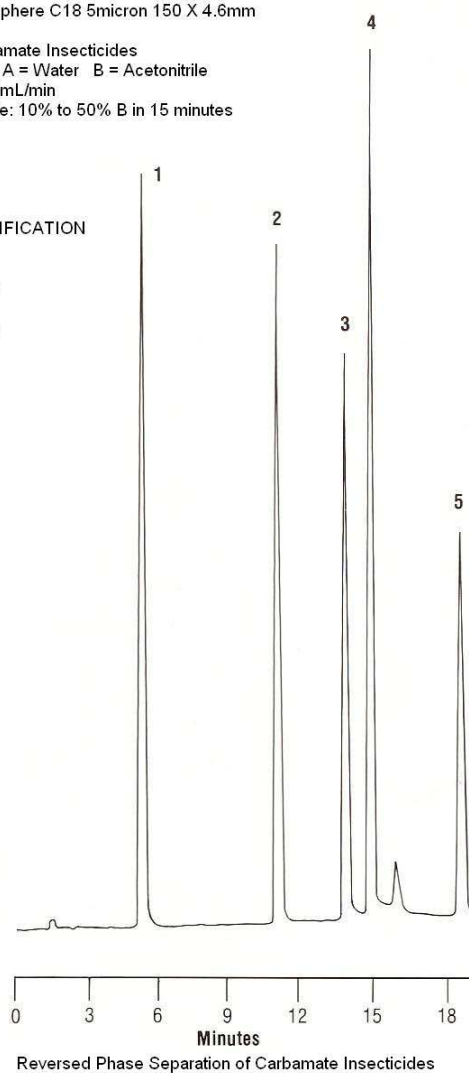
Mobile Phase: A = Water B = Acetonitrile

Flow Rate: 1.6mL/min

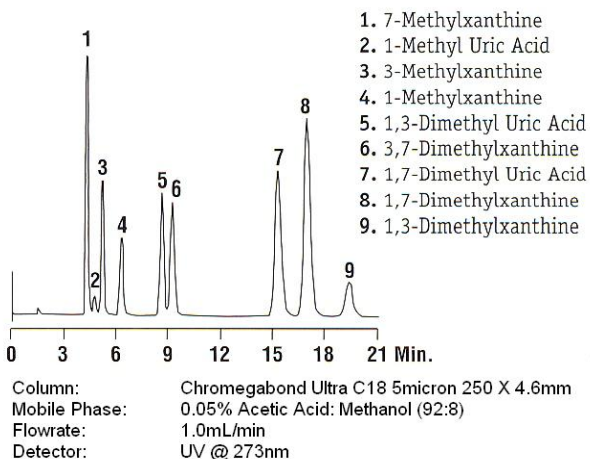
Gradient Profile: 10% to 50% B in 15 minutes

PEAK IDENTIFICATION

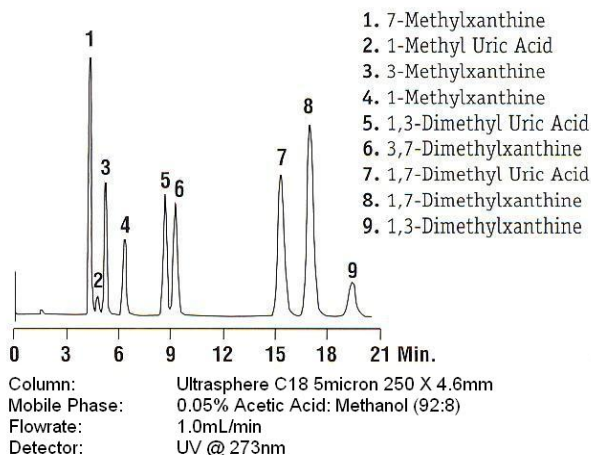
1. Methomyl
2. Aldicarb
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**Caffeine Metabolites**



**Caffeine Metabolites**



**CONDITIONS:**

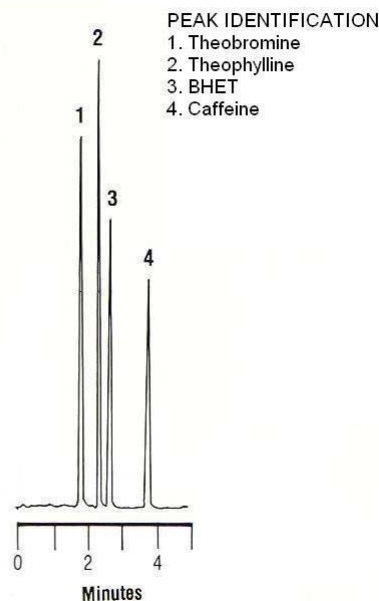
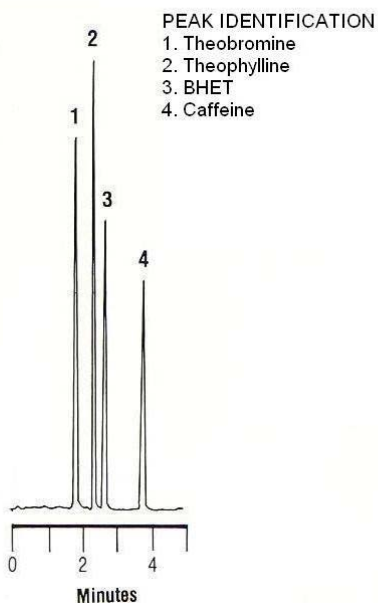
Chromegabond Ultra C18 5micron 250 X 4.6mm

Sample: Xanthines  
 Detector: UV/Vis @ 254nm  
 Mobile phase: 12% Acetonitrile / 1% Acetic Acid / 87% Water  
 Flow Rate: 1.0mL/min

**CONDITIONS:**

Ultrasphere C18 5micron 250 X 4.6mm

Sample: Xanthines  
 Detector: UV/Vis @ 254nm  
 Mobile phase: 12% Acetonitrile / 1% Acetic Acid / 87% Water  
 Flow Rate: 1.0mL/min



Chromegabond Ultra™ C18 3u 80A		
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
7.5cm	195171-ULC18	192171-ULC18
15cm	135171-ULC18	132171-ULC18

Chromegabond Ultra™ C18 5u 80A			
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>	<u>9.6mm (ID)</u>
15cm	135271-ULC18	132271-ULC18	137271-ULC18
25cm	155271-ULC18	152271-ULC18	157271-ULC18

Chromegabond Ultra™ C18-Ion Pair 5u 100A		
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
15cm	135271-ULC18IP	132271-ULC18IP
25cm	155271-ULC18IP	152271-ULC18IP

Chromegabond Ultra™ C8 3u 80A		
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
7.5cm	195171-ULC8	192171-ULC8
15cm	135171-ULC8	132171-ULC8

Chromegabond Ultra™ C8 5u 80A			
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>	<u>9.6mm (ID)</u>
15cm	135271-ULC8	132271-ULC8	137271-ULC8
25cm	155271-ULC8	152271-ULC8	157271-ULC8

Chromegabond Ultra™ Cyano 3u 80A		
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
7.5cm	195171-ULCN	192171-ULCN
15cm	135171-ULCN	132171-ULCN

Chromegabond Ultra™ Cyano 5u 80A			
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>	<u>9.6mm (ID)</u>
15cm	135271-ULCN	132271-ULCN	137271-ULCN
25cm	155271-ULCN	152271-ULCN	157271-ULCN

Chromegabond Ultra™ Silica 3u 80A		
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
7.5cm	195171-ULSI	192171-ULSI
15cm	135171-ULSI	132171-ULSI

Chromegabond Ultra™ Silica 5u 80A			
	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>	<u>9.6mm (ID)</u>
15cm	135271-ULSI	132271-ULSI	137271-ULSI
25cm	155271-ULSI	152271-ULSI	157271-ULSI