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**C<sub>18</sub> DVB**



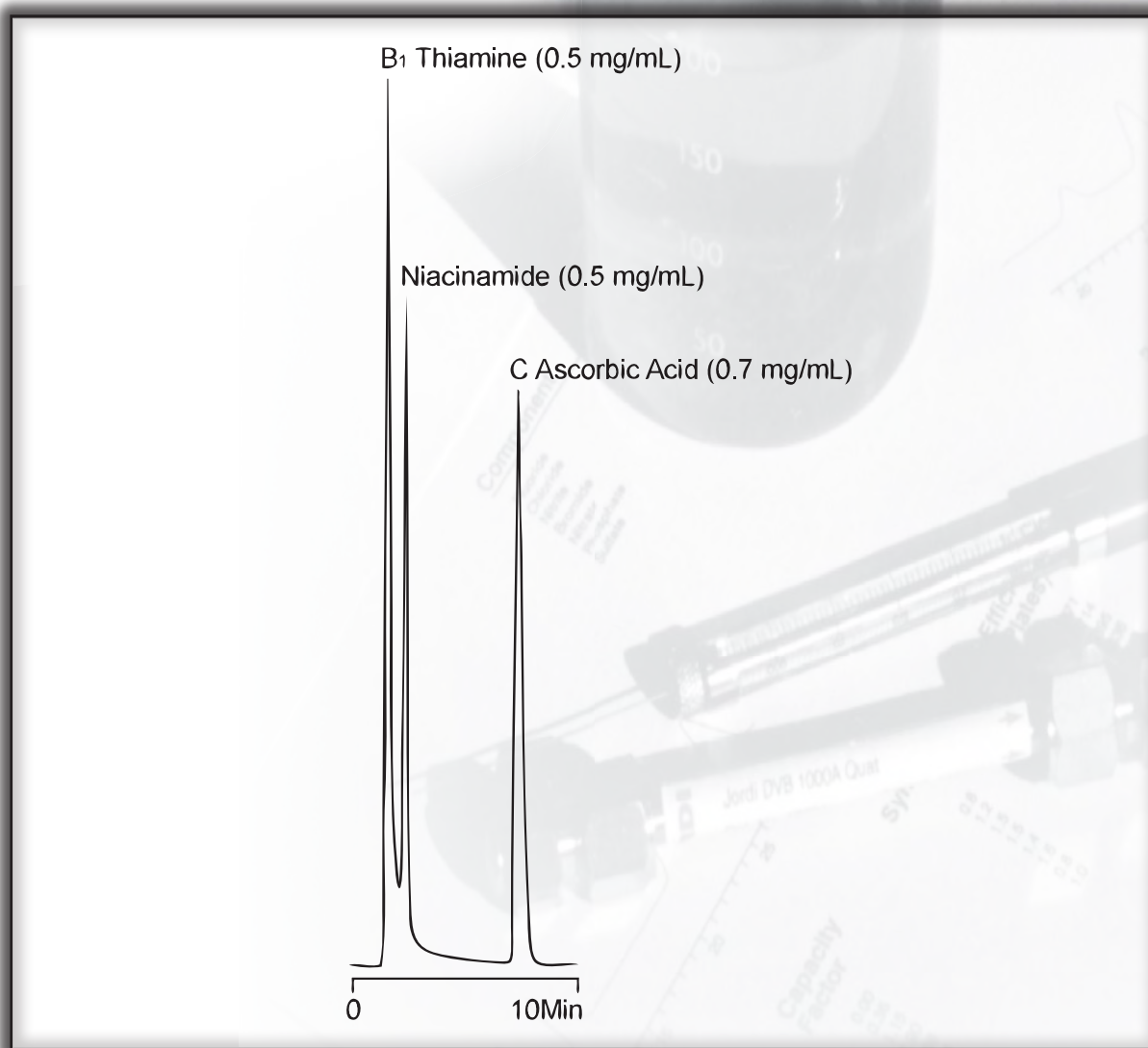


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## WATER SOLUBLE VITAMINS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/40/10 H<sub>2</sub>O/ACN/MeOH  
pH 4.0 w/ CH<sub>3</sub>COOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 15µL  
**Temperature:** 25°C  
**Detector:** UV @246nm





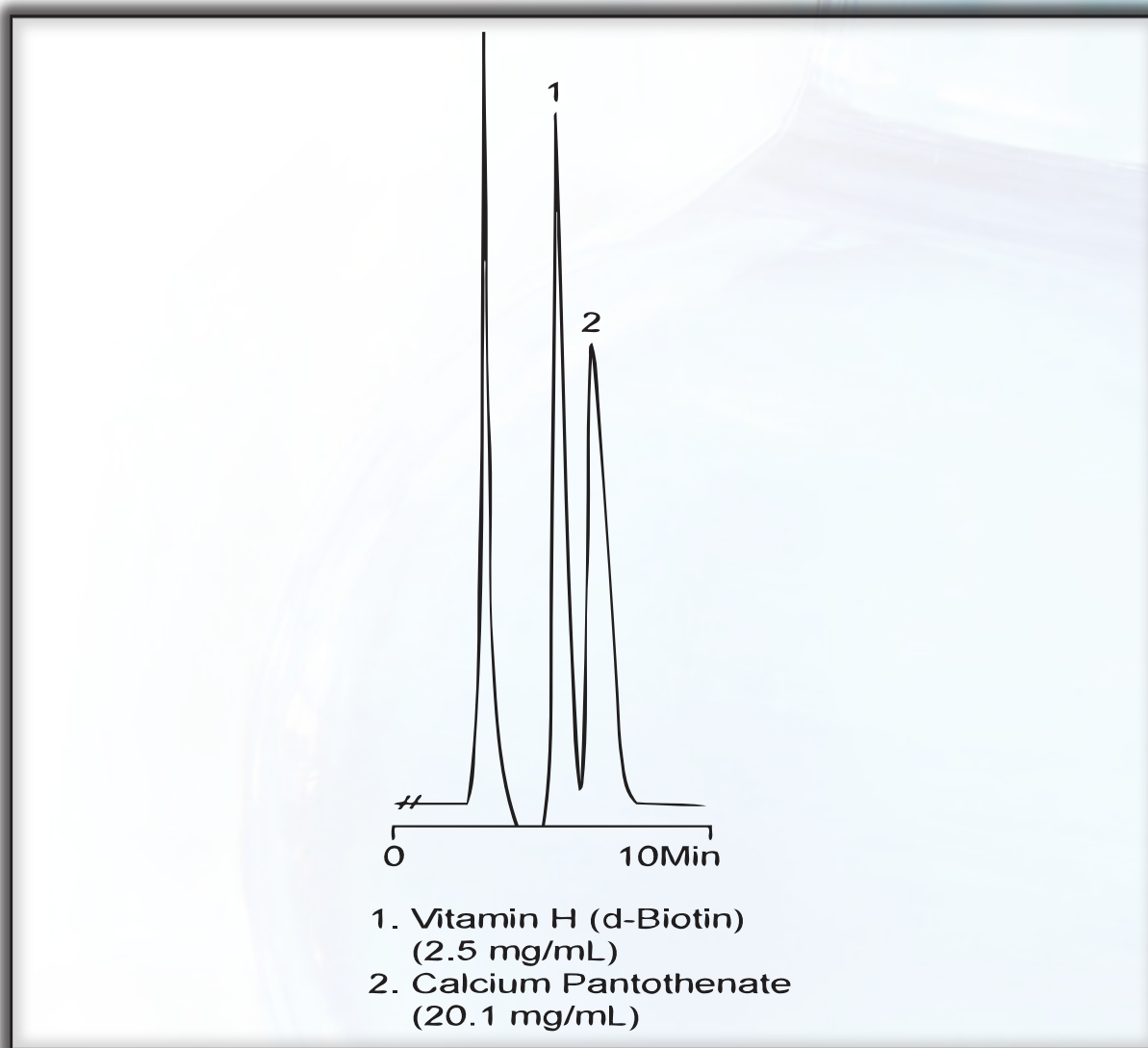


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## WATER SOLUBLE VITAMINS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/40/10 H<sub>2</sub>O/ACN/MeOH  
pH 4.0 w/ CH<sub>3</sub>COOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 15µL  
**Temperature:** 25°C  
**Detector:** UV @206nm





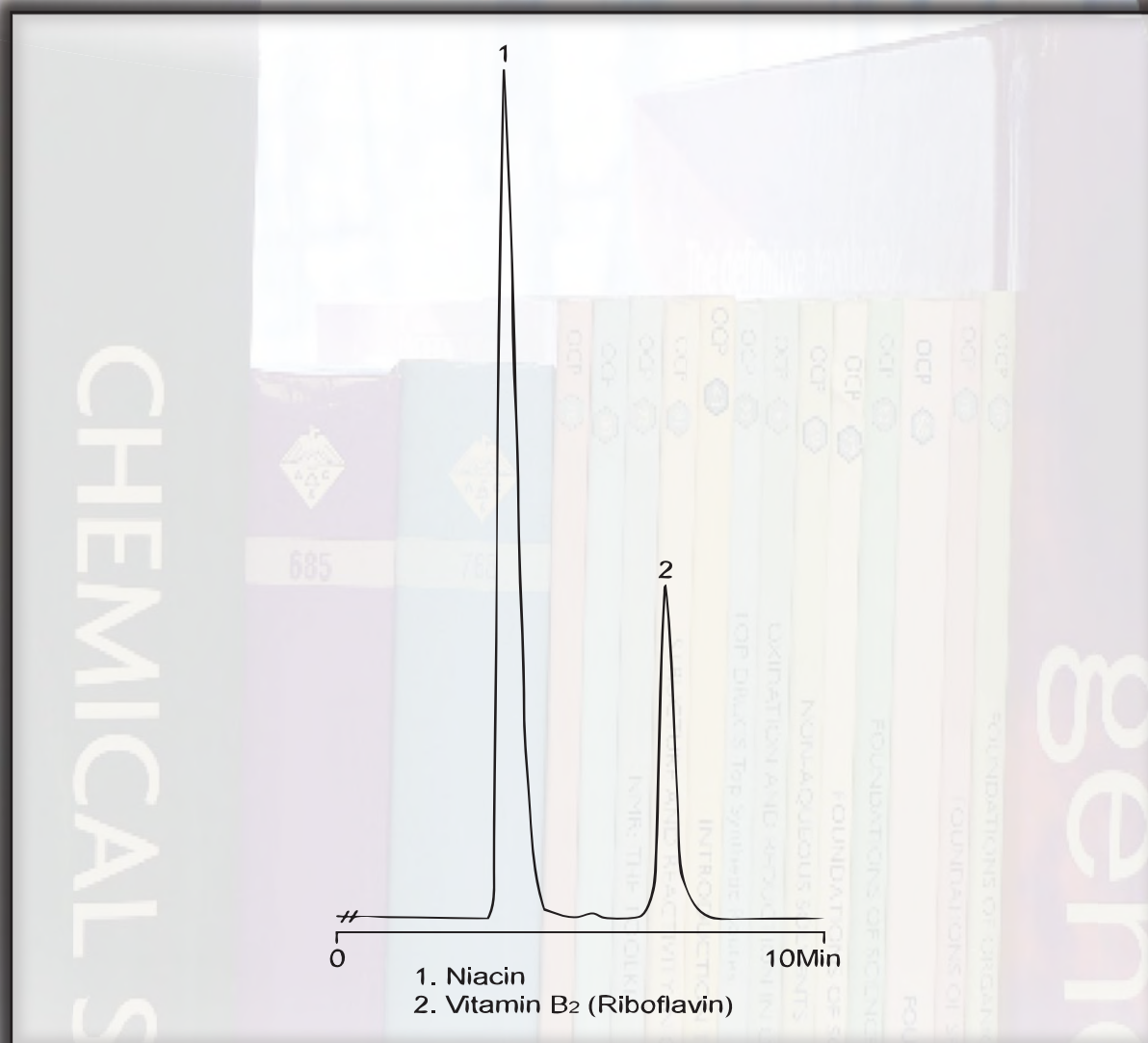


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## WATER SOLUBLE VITAMINS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 70/30 H<sub>2</sub>O/ACN w/ 0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @268nm



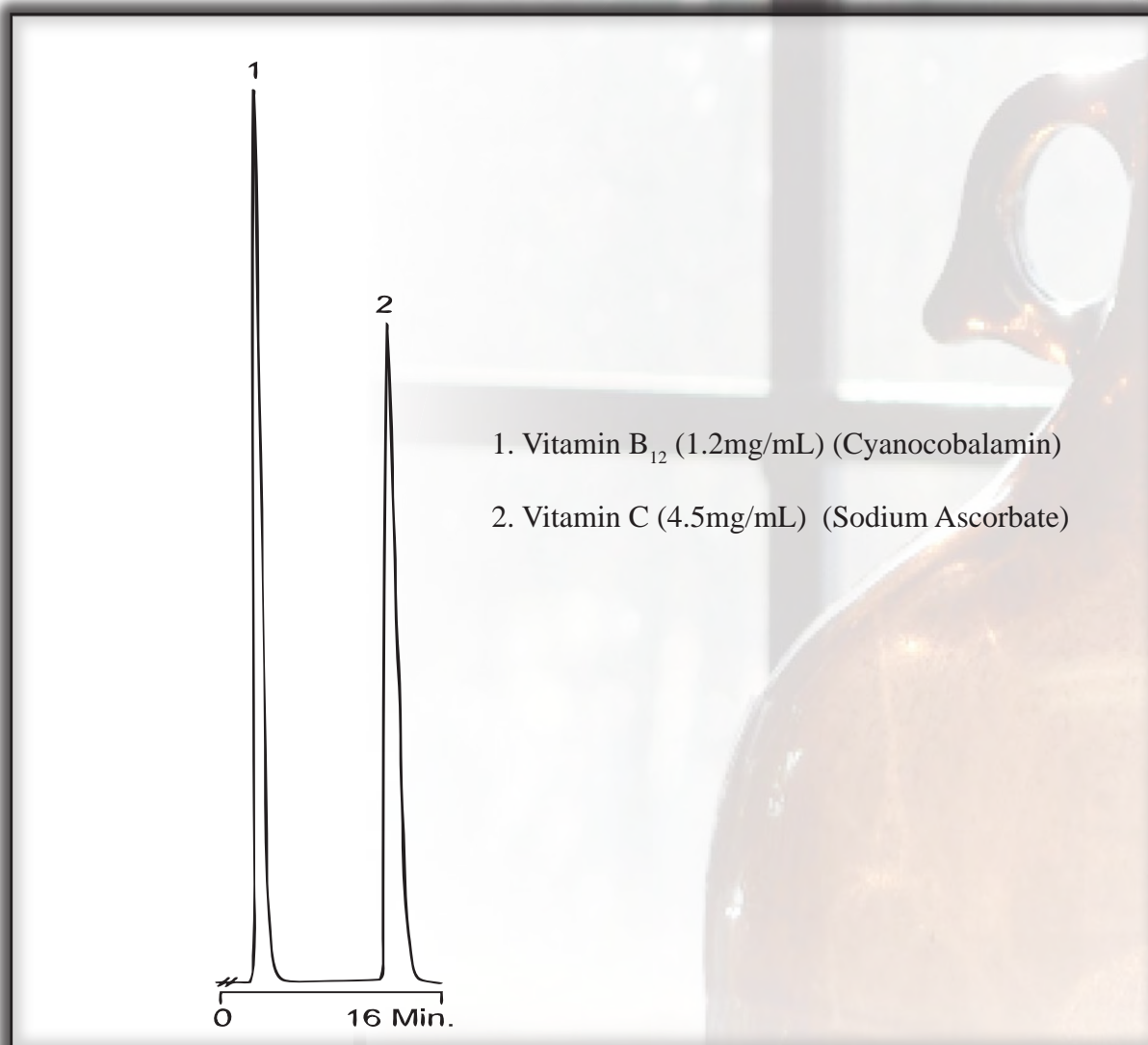


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# HPLC APPLICATION

## WATER SOLUBLE VITAMINS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/40/10 H<sub>2</sub>O/ACN/MeOH  
pH 4.0 w/CH<sub>3</sub>COOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @245nm





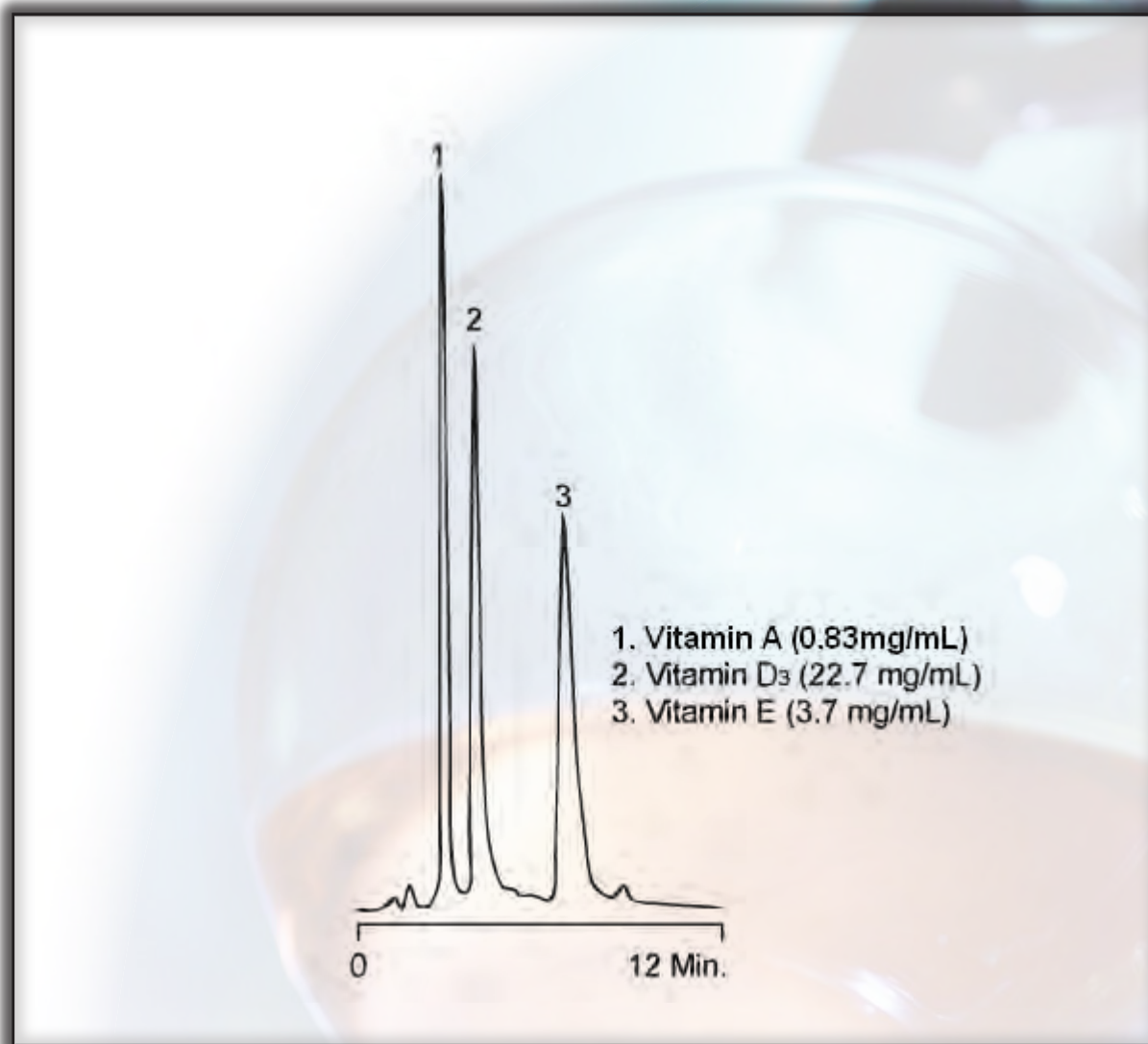


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# HPLC APPLICATION

## FAT SOLUBLE VITAMINS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** ACN w/ 0.1% TFA  
**Flow Rate:** 1.5mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @284nm



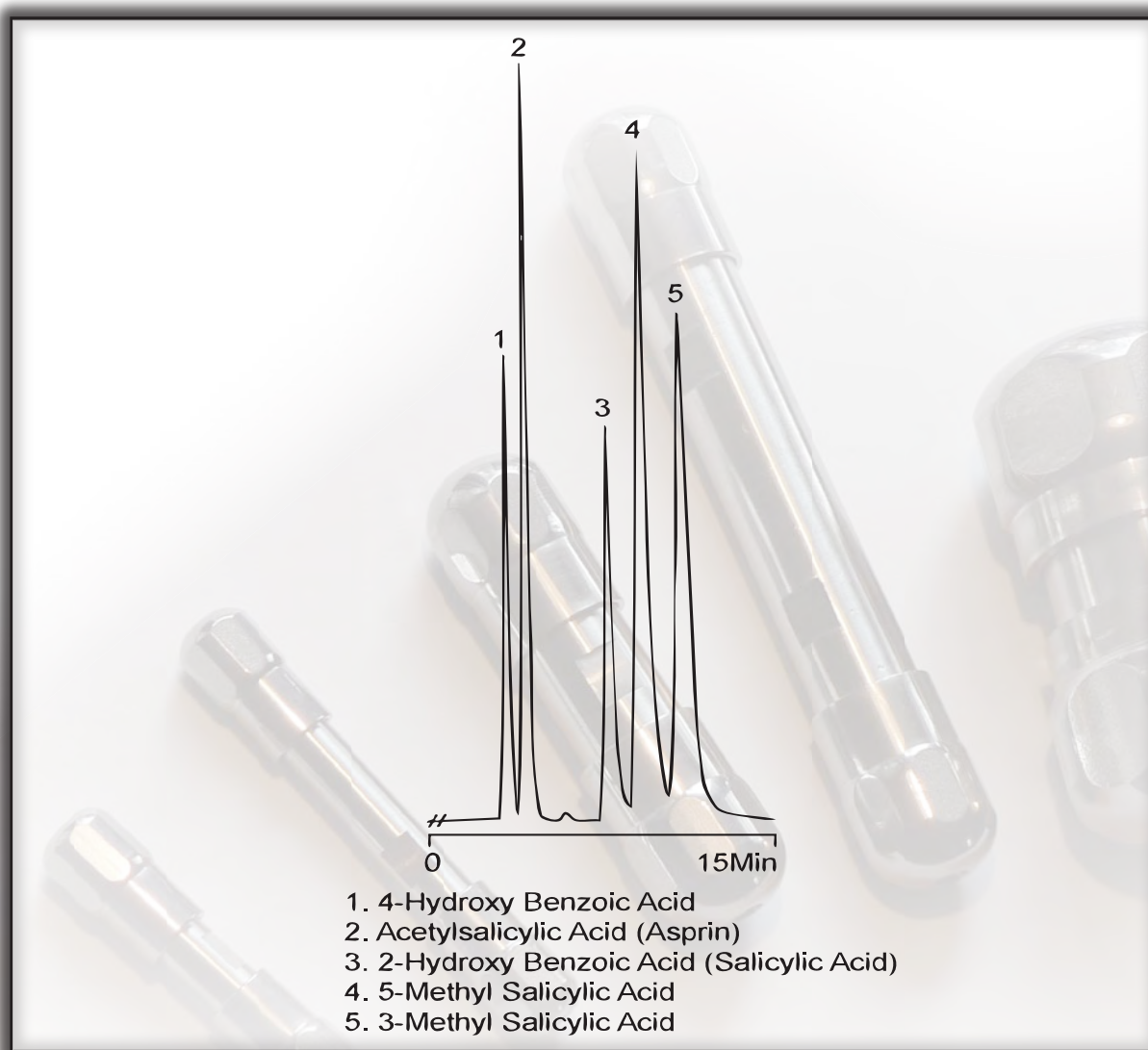


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# HPLC APPLICATION

ASPIRIN and RELATED COMPOUNDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 60/40 ACN/H<sub>2</sub>O w/ 0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 2µL  
**Temperature:** 25°C  
**Detector:** UV @235nm





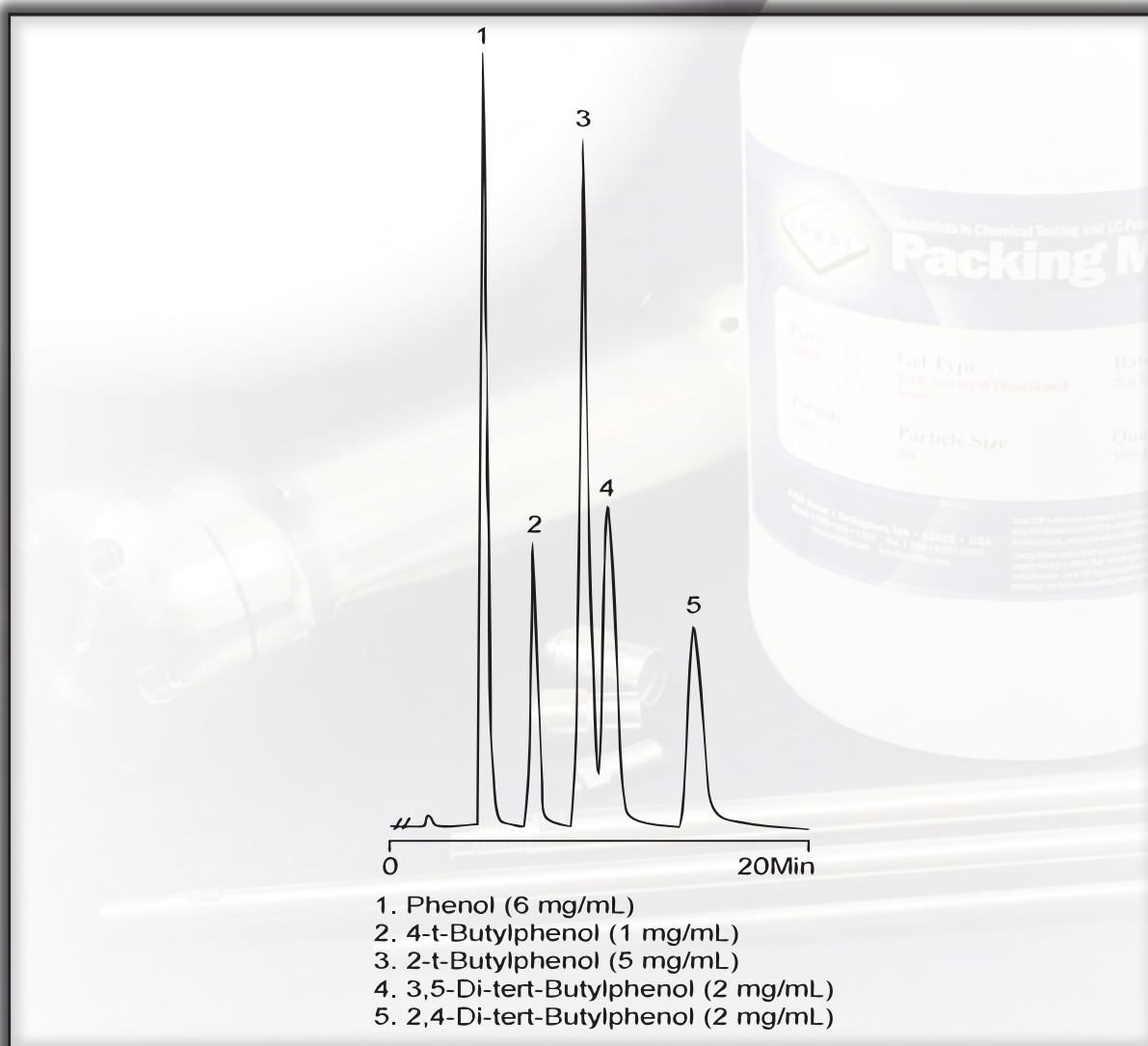


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# HPLC APPLICATION

## BUTYL PHENOL STANDARDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 70/30 ACN/H<sub>2</sub>O w/ 0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 5µL  
**Temperature:** 25°C  
**Detector:** UV @215nm



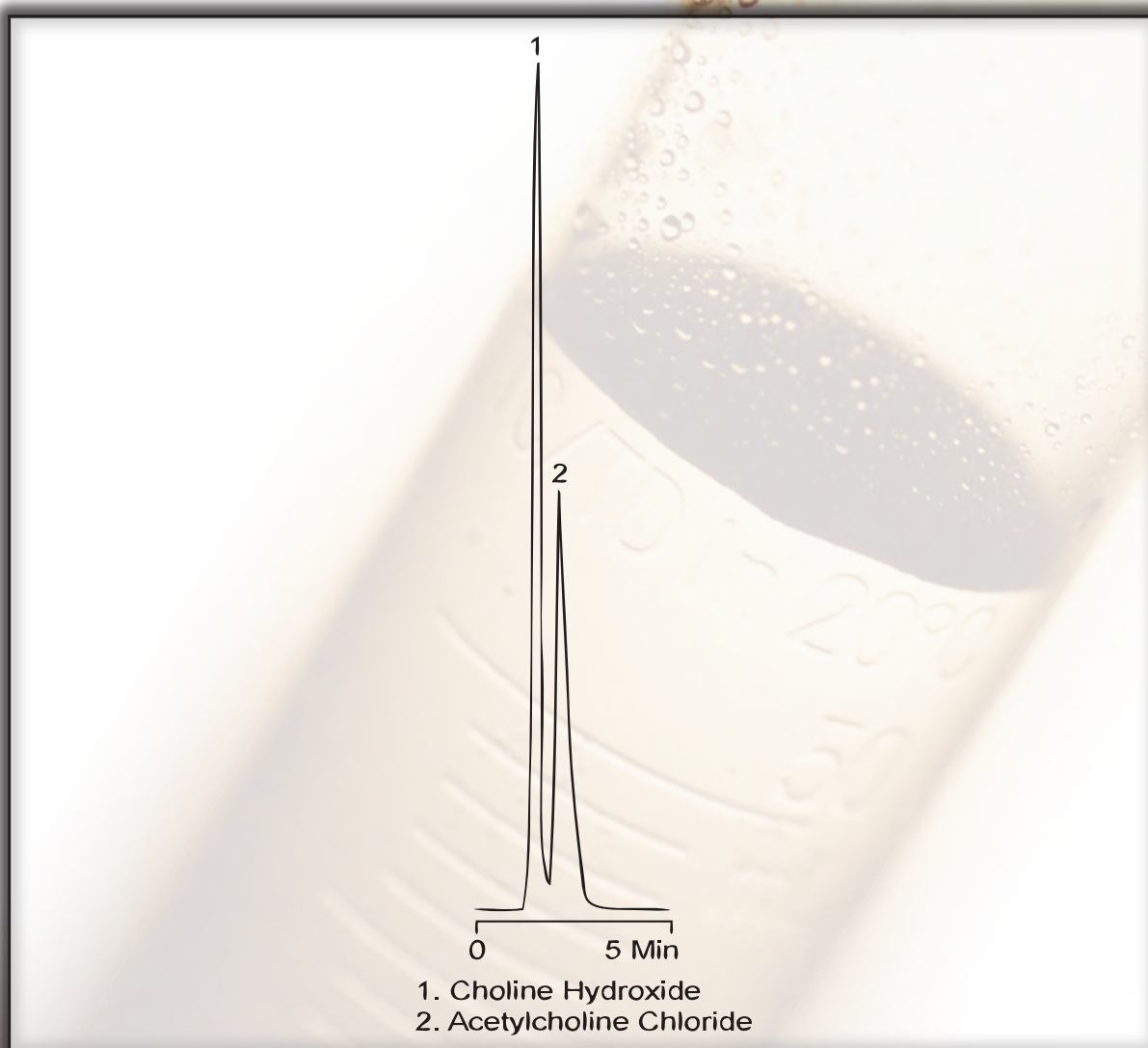


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# HPLC APPLICATION

## CHOLINE COMPOUNDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 90/3/7 0.1M Na<sub>2</sub>HPO<sub>4</sub>/ACN/MeOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 10µL  
**Temperature:** 25°C  
**Detector:** UV @215nm





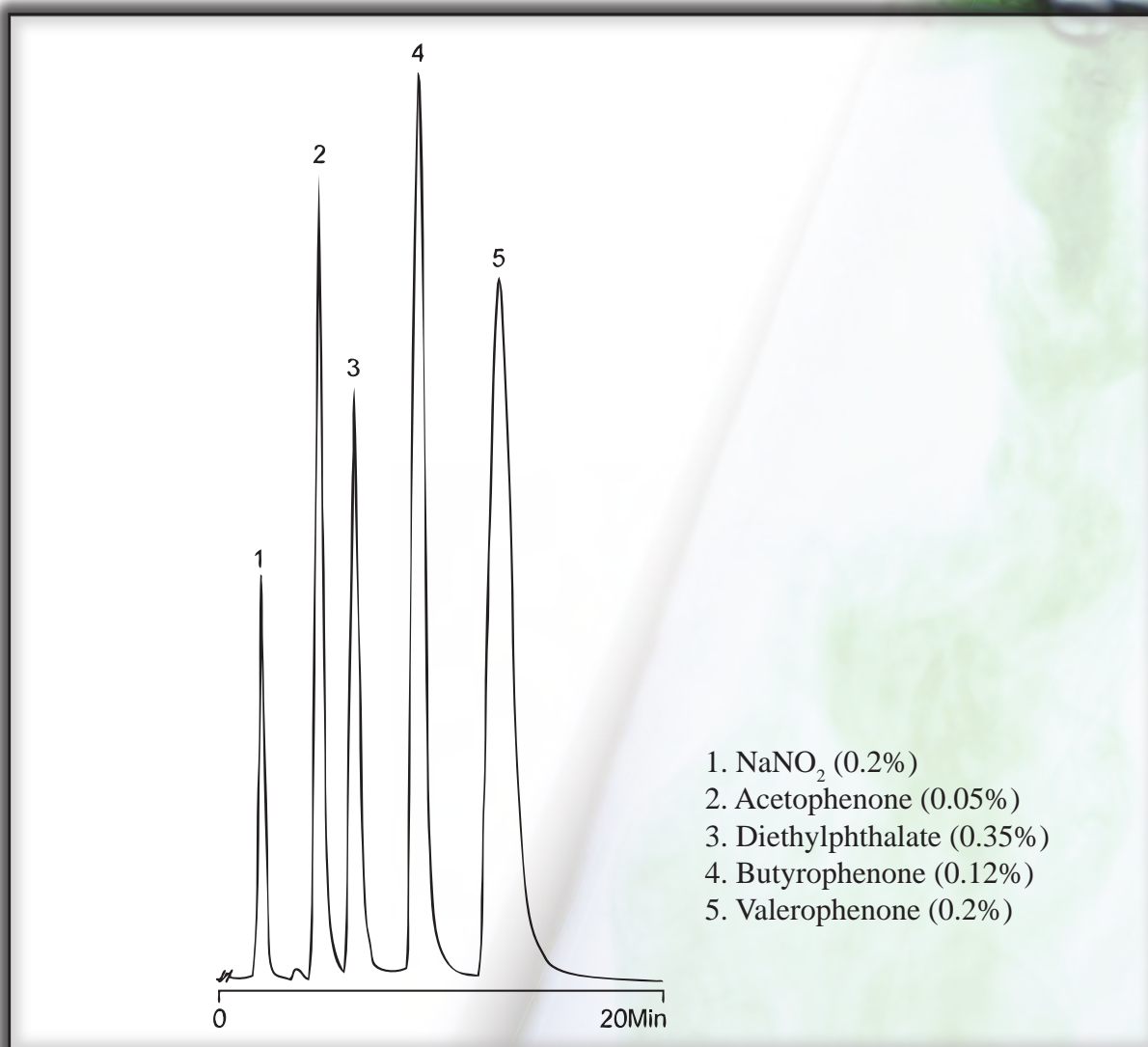


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# HPLC APPLICATION

## COLUMN TEST MIX

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 65/30/5 ACN/H<sub>2</sub>O/MeOH w/0.1%TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 5µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



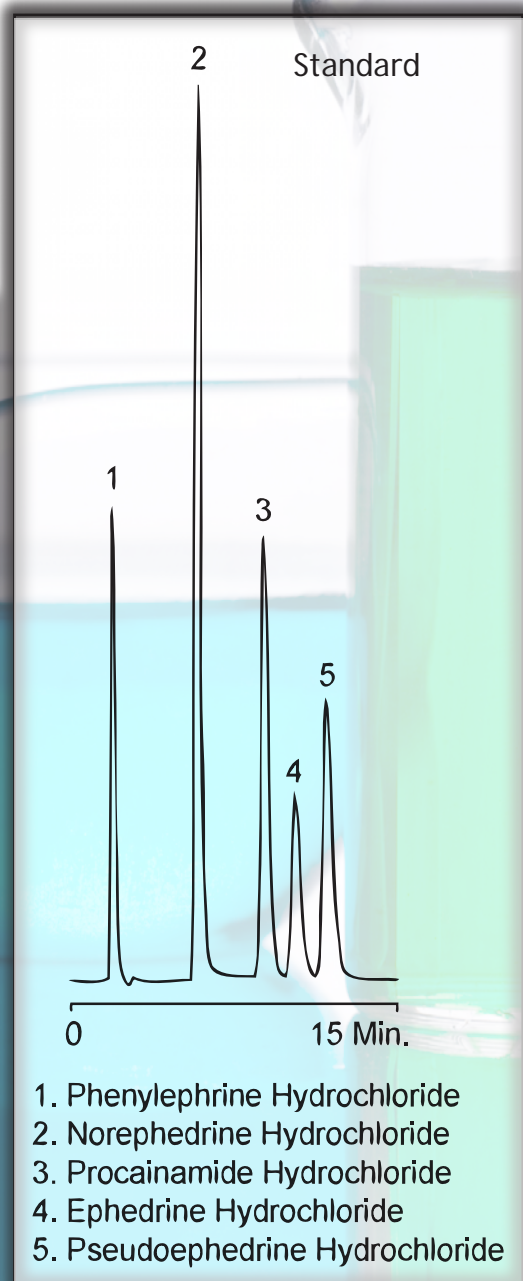
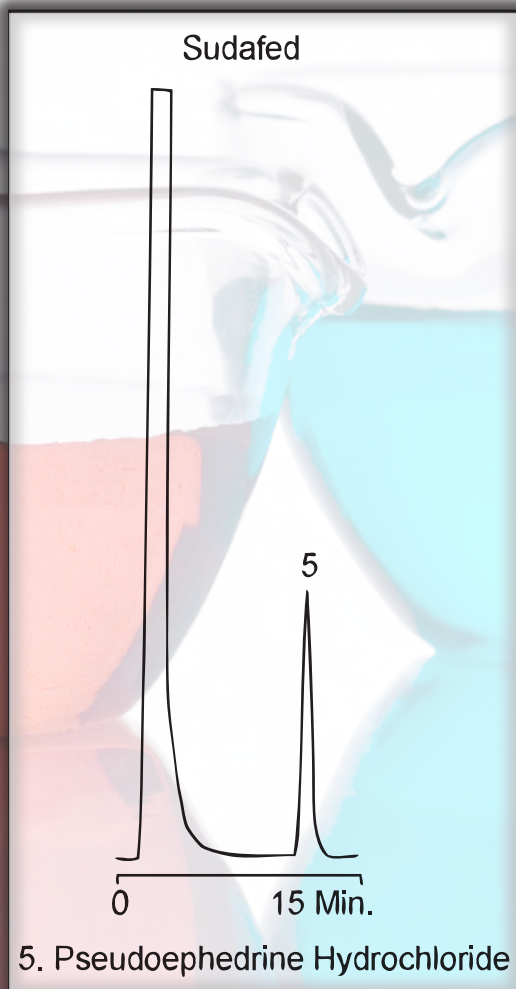


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# HPLC APPLICATION

## VASOCONSTRICTORS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 24/75/1 ACN/0.2M NaOH/Butylamine  
**Flow Rate:** 0.7mL/min.  
**Injection:** 10µL  
**Temperature:** 25°C  
**Detector:** UV @254nm





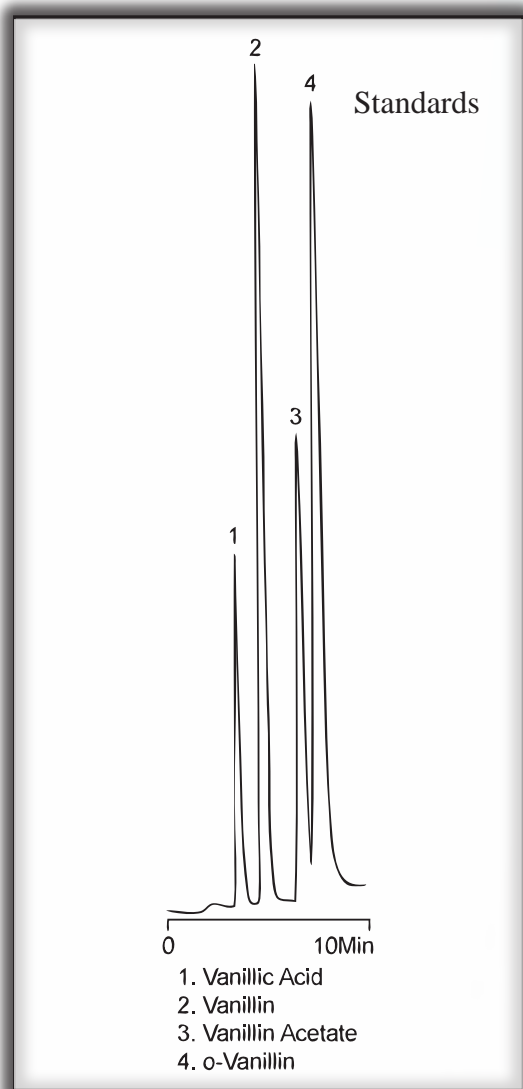


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## VANILLIN COMPOUNDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 40/60 H<sub>2</sub>O/ACN w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 4µL  
**Temperature:** 25°C  
**Detector:** UV @235nm



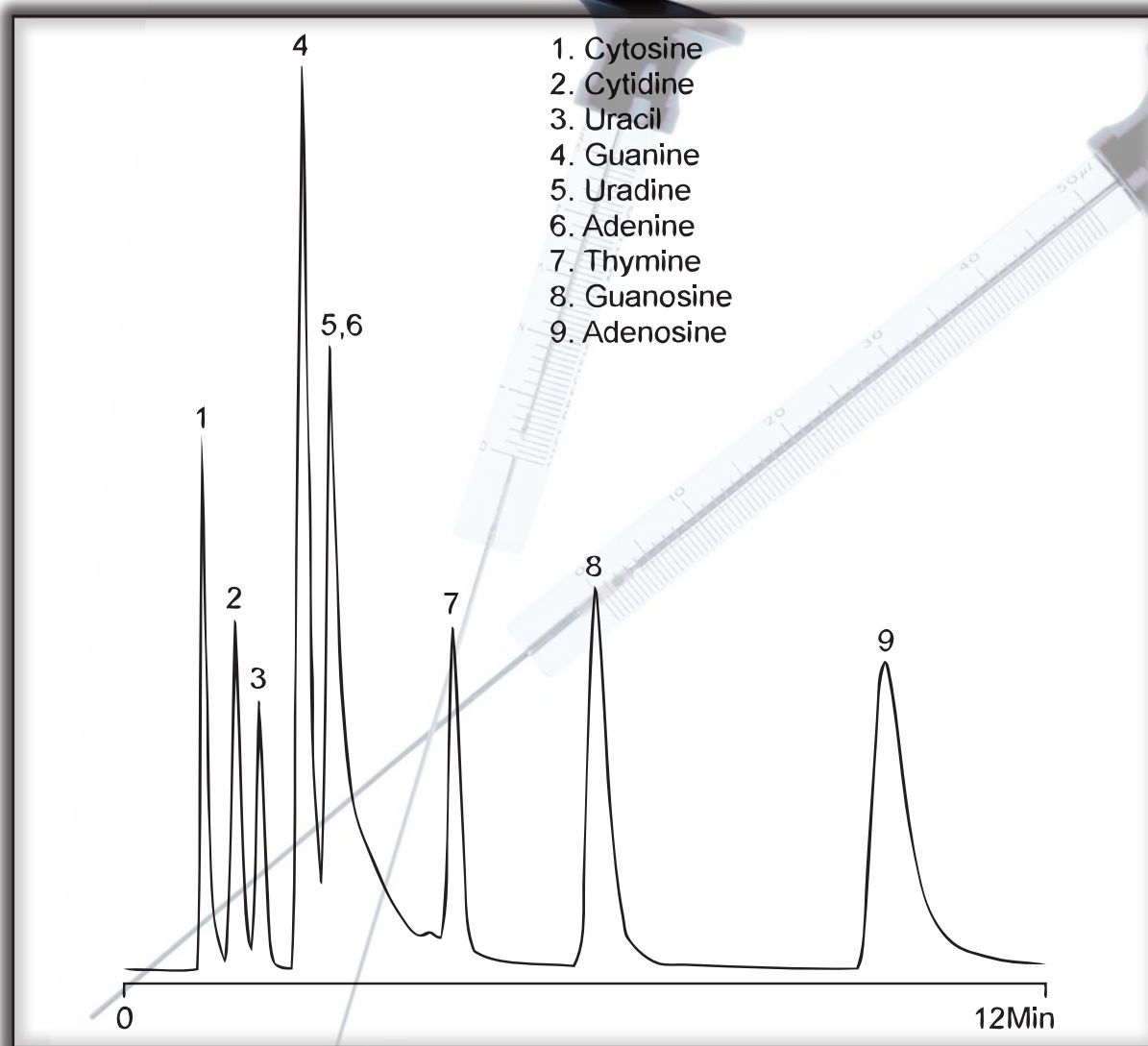


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# HPLC APPLICATION

## NUCLEOSIDES and BASES

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 99/1 0.01%M Sodium Acetate/ACN  
pH 4.0 w/TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 15µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



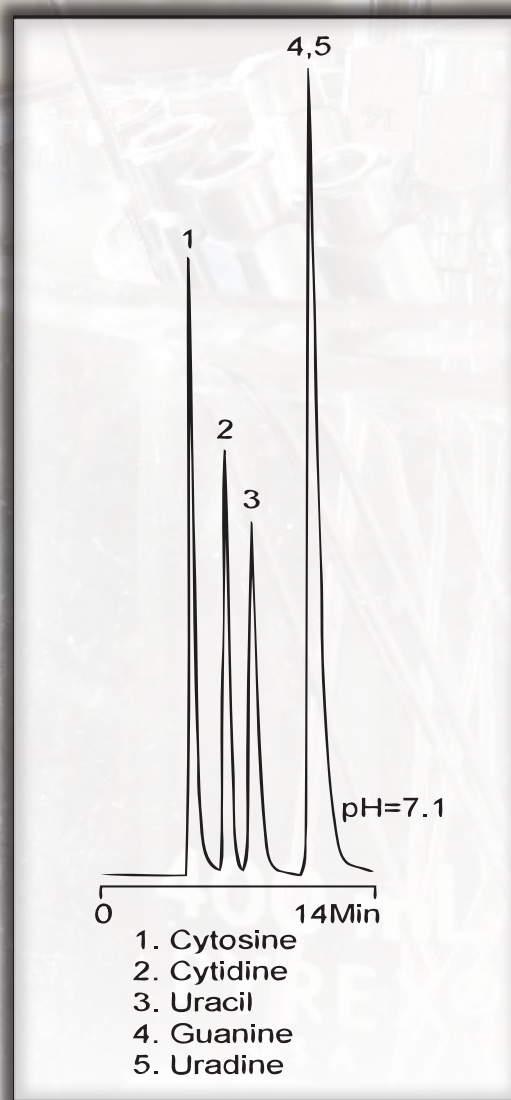
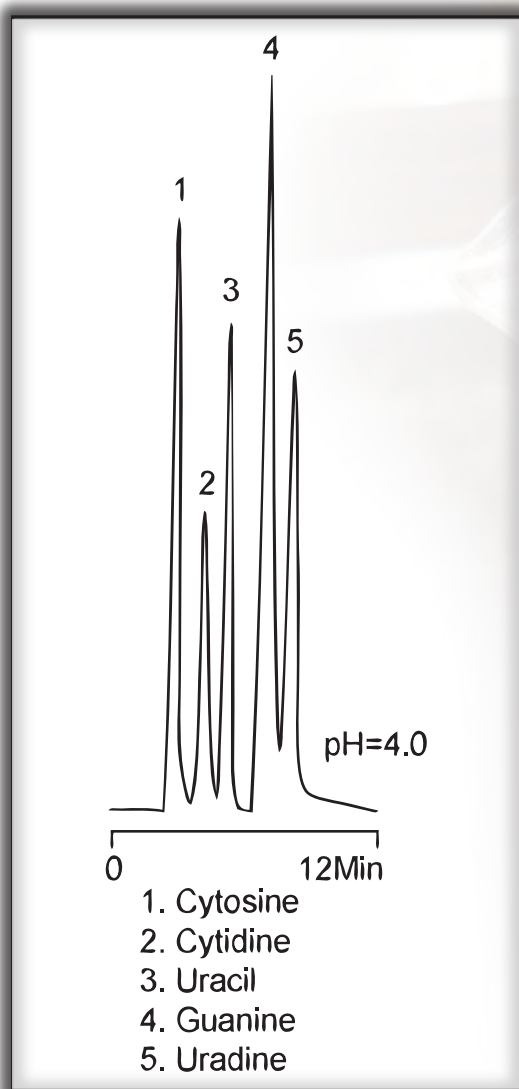


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# HPLC APPLICATION

NUCLEOSIDES and BASES  
(at different pH's)

Part Number: 18500  
 Packing: Jordi DVB C<sub>18</sub> 500Å  
 Column: 15cm X 4.6mm ID  
 Solvent: 99/1 0.01%M Sodium Acetate/ACN  
 pH 4.0 w/TFA & pH 7.1 w/TFA  
 Flow Rate: 0.7mL/min.  
 Injection: 15µL  
 Temperature: 25°C  
 Detector: UV @254nm





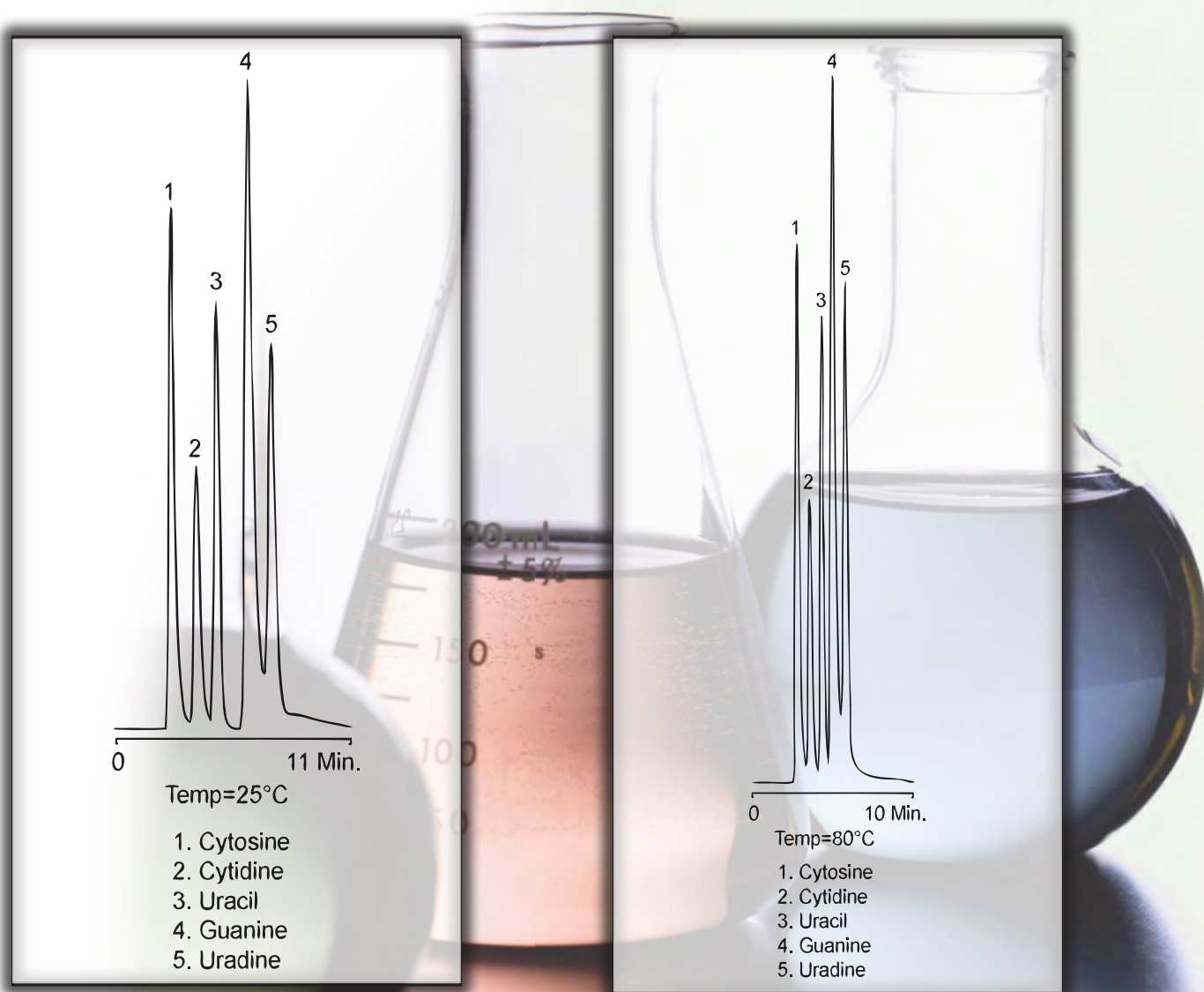


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# HPLC APPLICATION

NUCLEOSIDES and BASES  
(at different Temperatures)

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 99/1 0.01%M Sodium Acetate/ACN  
 pH 4.0 w/TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 15µL  
**Temperature:** See curve detail  
**Detector:** UV @254nm



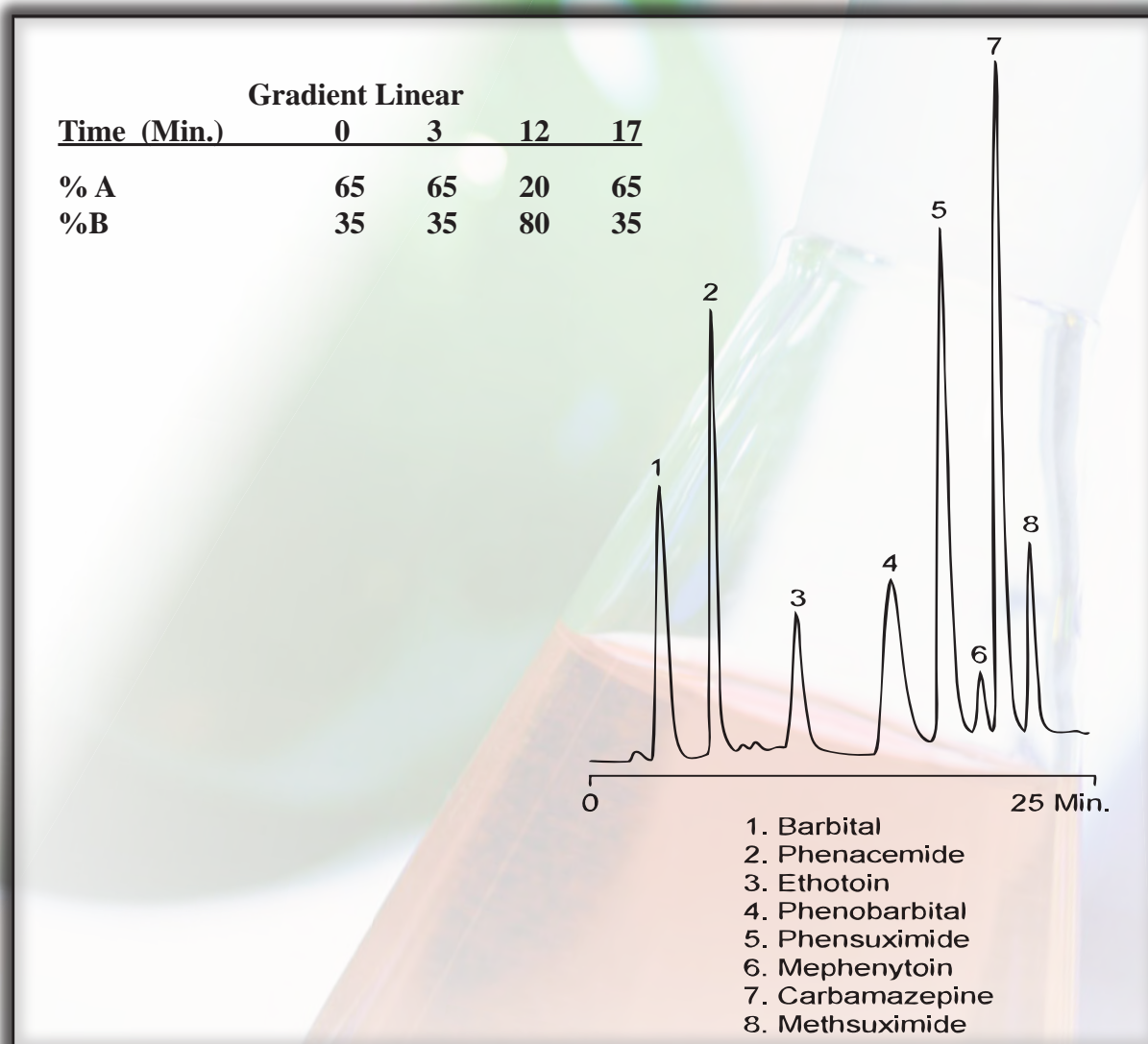


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# HPLC APPLICATION

## ANTICONVULSANTS

**Part Number:** 18500  
**Packing:** DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent A:** H<sub>2</sub>O  
**Solvent B:** 87.5/12.5 ACN/MeOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @215nm



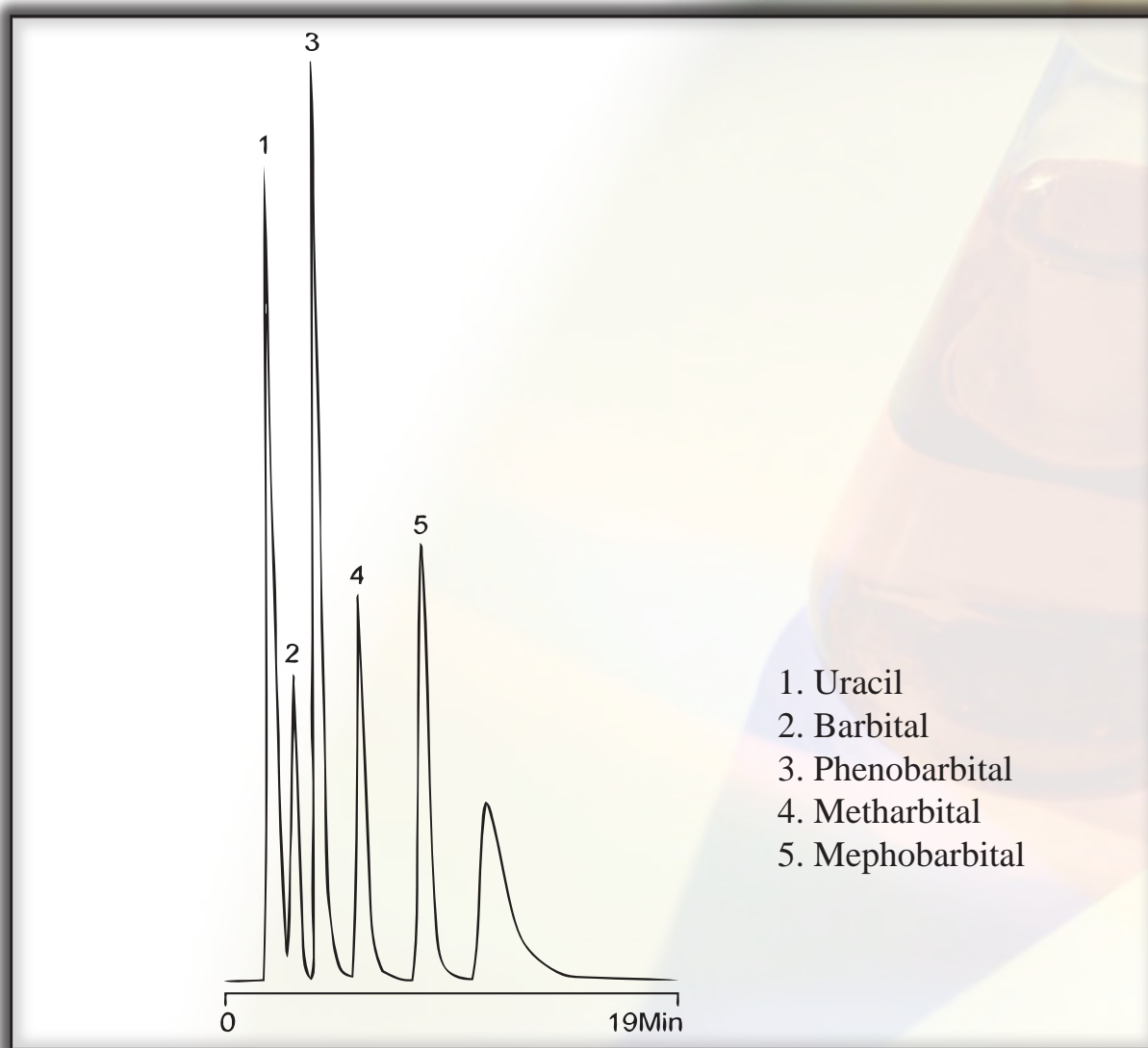


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# HPLC APPLICATION

## BARBITURATES

**Part Number:** 18500  
**Packing:** DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent :** 70/22.5/7.5 0.05 M Na<sub>2</sub>HPO<sub>4</sub>/ACN/MeOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 12µL  
**Temperature:** 25°C  
**Detector:** UV @210nm





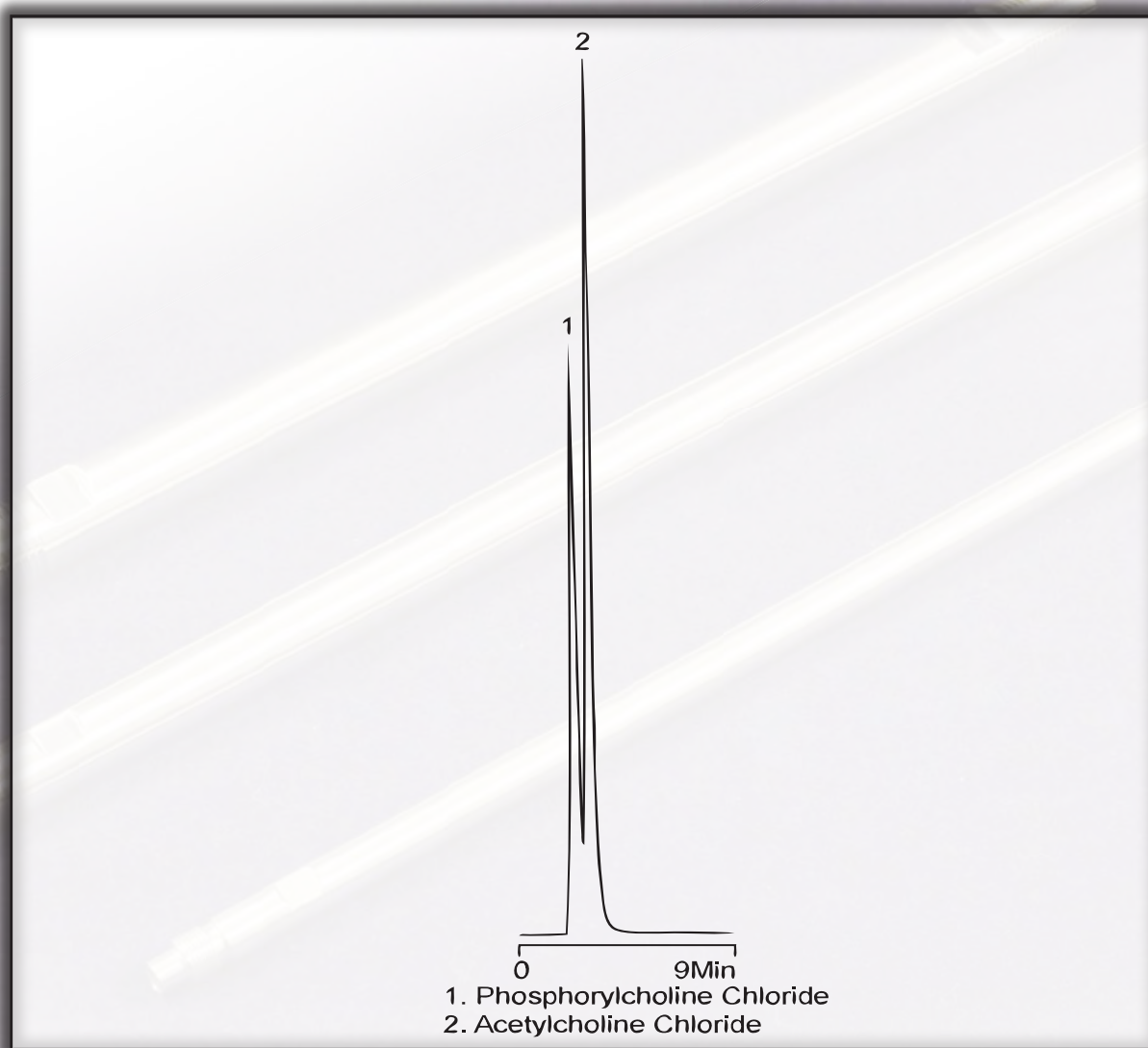


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# HPLC APPLICATION

## CHOLINE COMPOUNDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** H<sub>2</sub>O @pH 3.3 w/HCl  
**Flow Rate:** 0.7mL/min.  
**Injection:** 15µL  
**Temperature:** 25°C  
**Detector:** UV @200nm



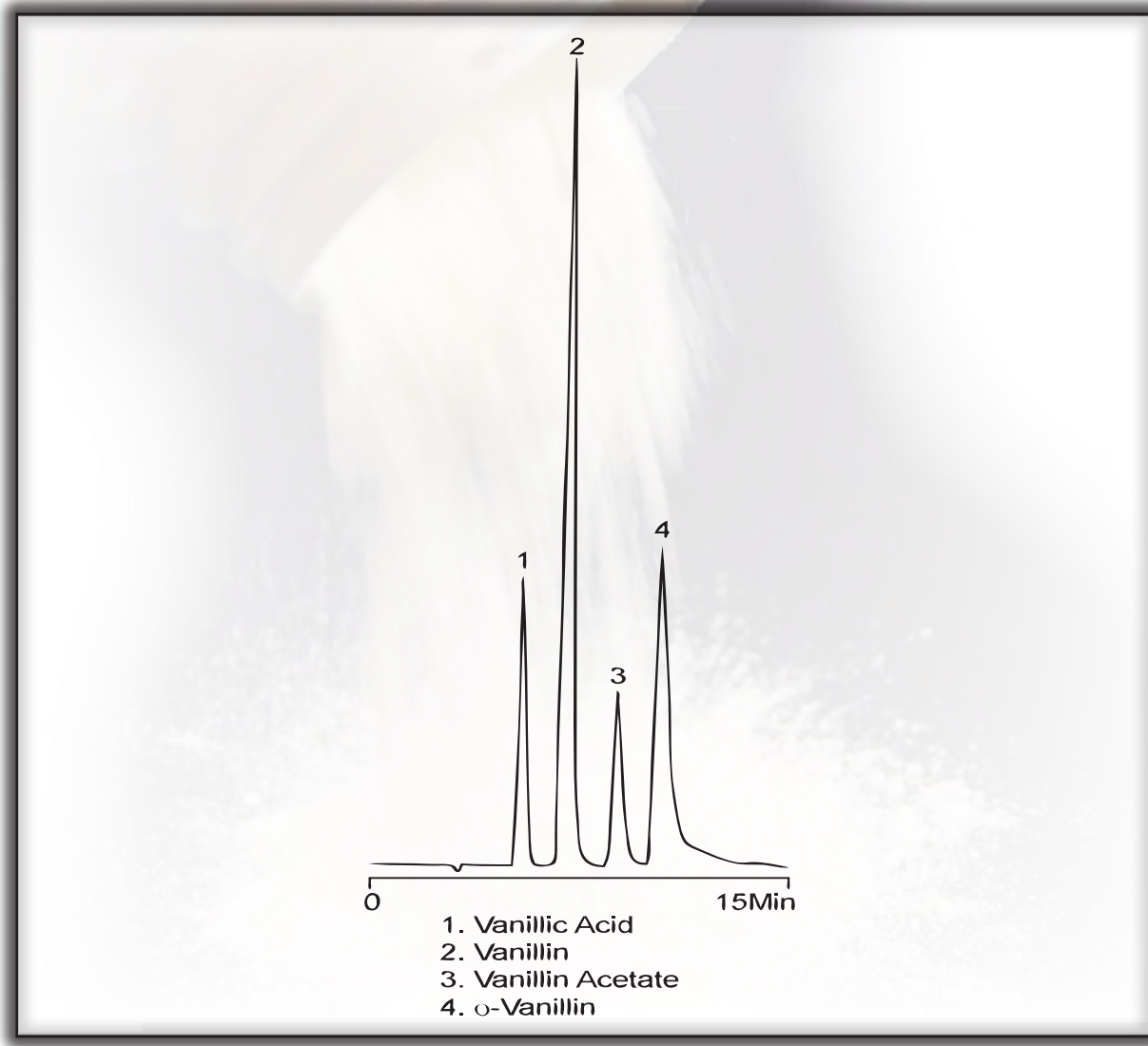


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# HPLC APPLICATION

## VANILLIN COMPOUNDS

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 40/60 H<sub>2</sub>O/ACN w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 4µL  
**Temperature:** 25°C  
**Detector:** UV @235nm



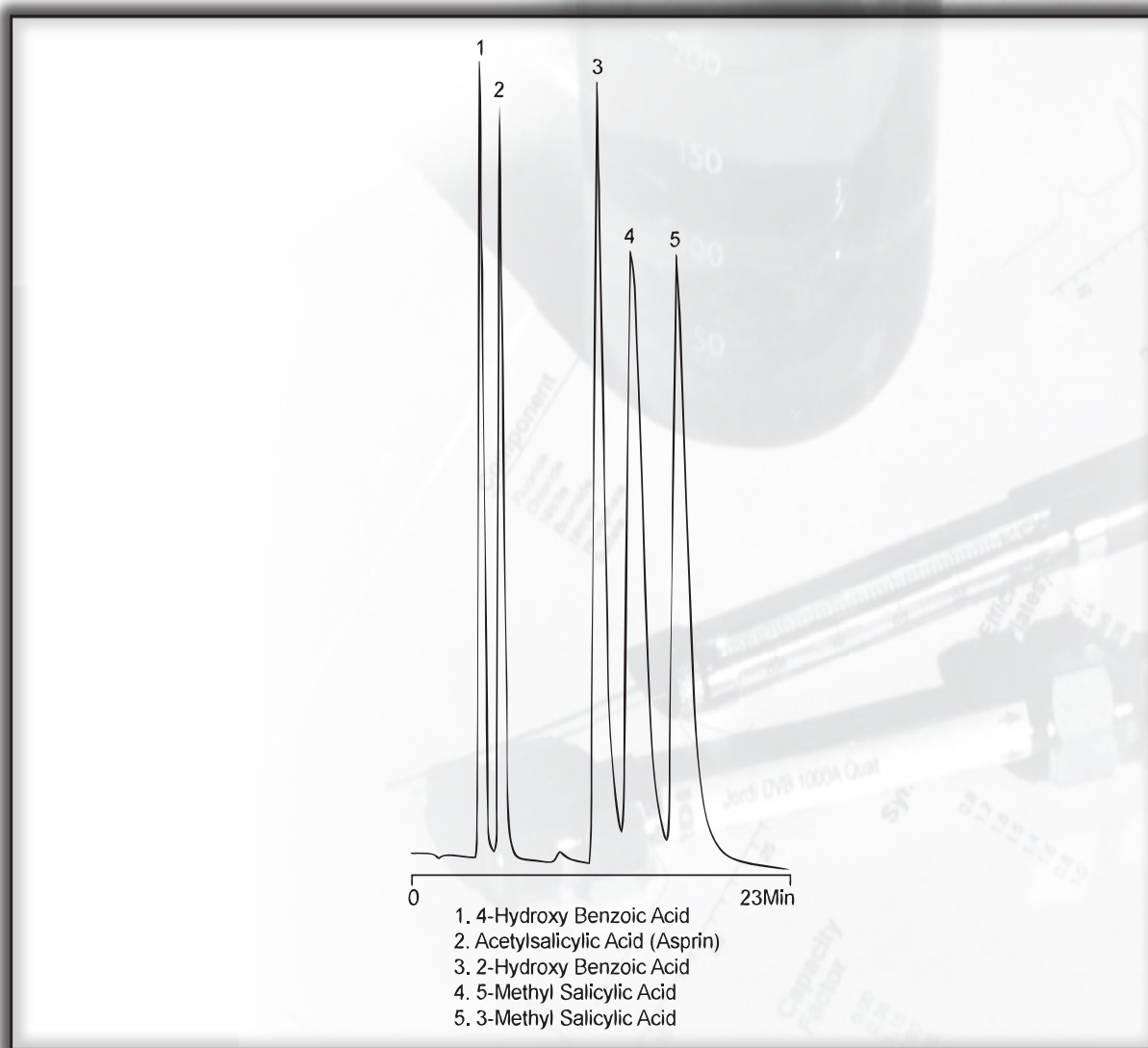


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# HPLC APPLICATION

## ASPIRIN and RELATED COMPOUNDS

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 40/60 H<sub>2</sub>O/ACN w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 2µL  
**Temperature:** 25°C  
**Detector:** UV @235nm





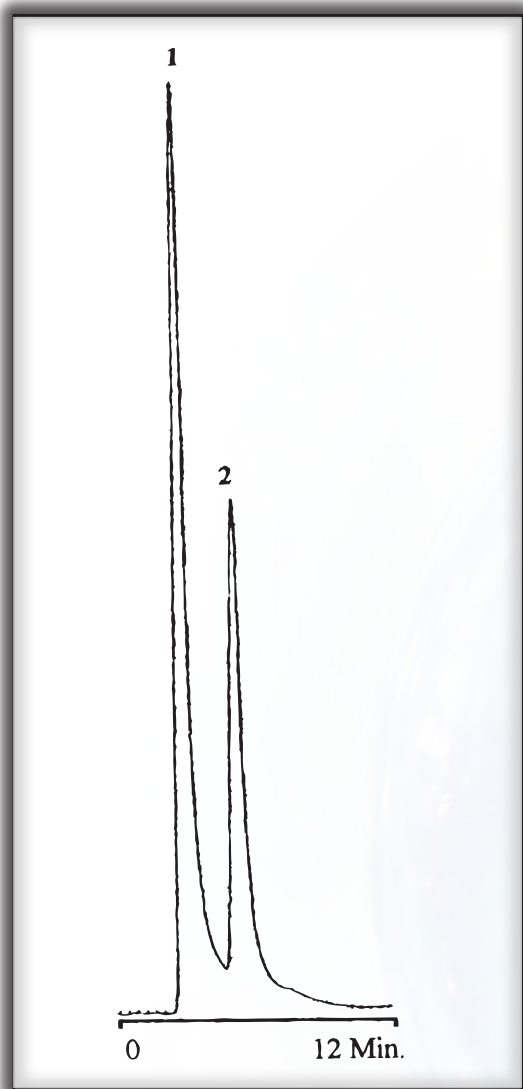


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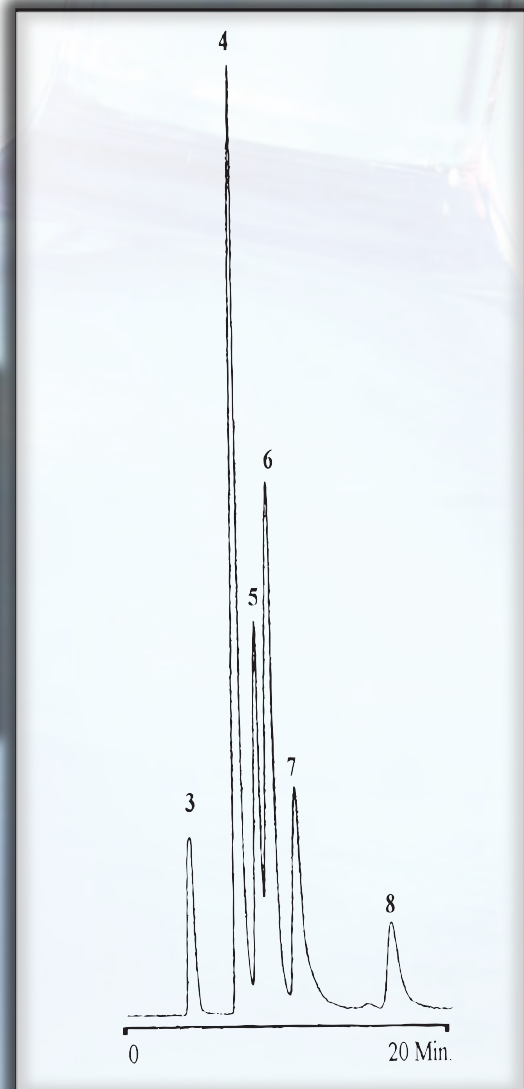
# HPLC APPLICATION

## 2' and 3' MONOPHOSPHATE NUCLEOTIDES

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 99/1 0.01M Sodium Acetate/ACN  
 w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 10µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



- 1. 3'-AMP
- 2. 2'-AMP
- 3. 2'-CMP & 3'-CMP
- 4. 3'-AMP
- 5. 3'-UMP
- 6. 2'-AMP & 2' -UMP
- 7. 3' -GMP
- 8. 2' -GMP





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# HPLC APPLICATION

## 2' and 3' MONOPHOSPHATE NUCLEOTIDES

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 99/1 0.01M Sodium Acetate/ACN  
w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 7µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



1. 3'-UMP
2. 2'-UMP
3. 3'-GMP
4. 2'-GMP



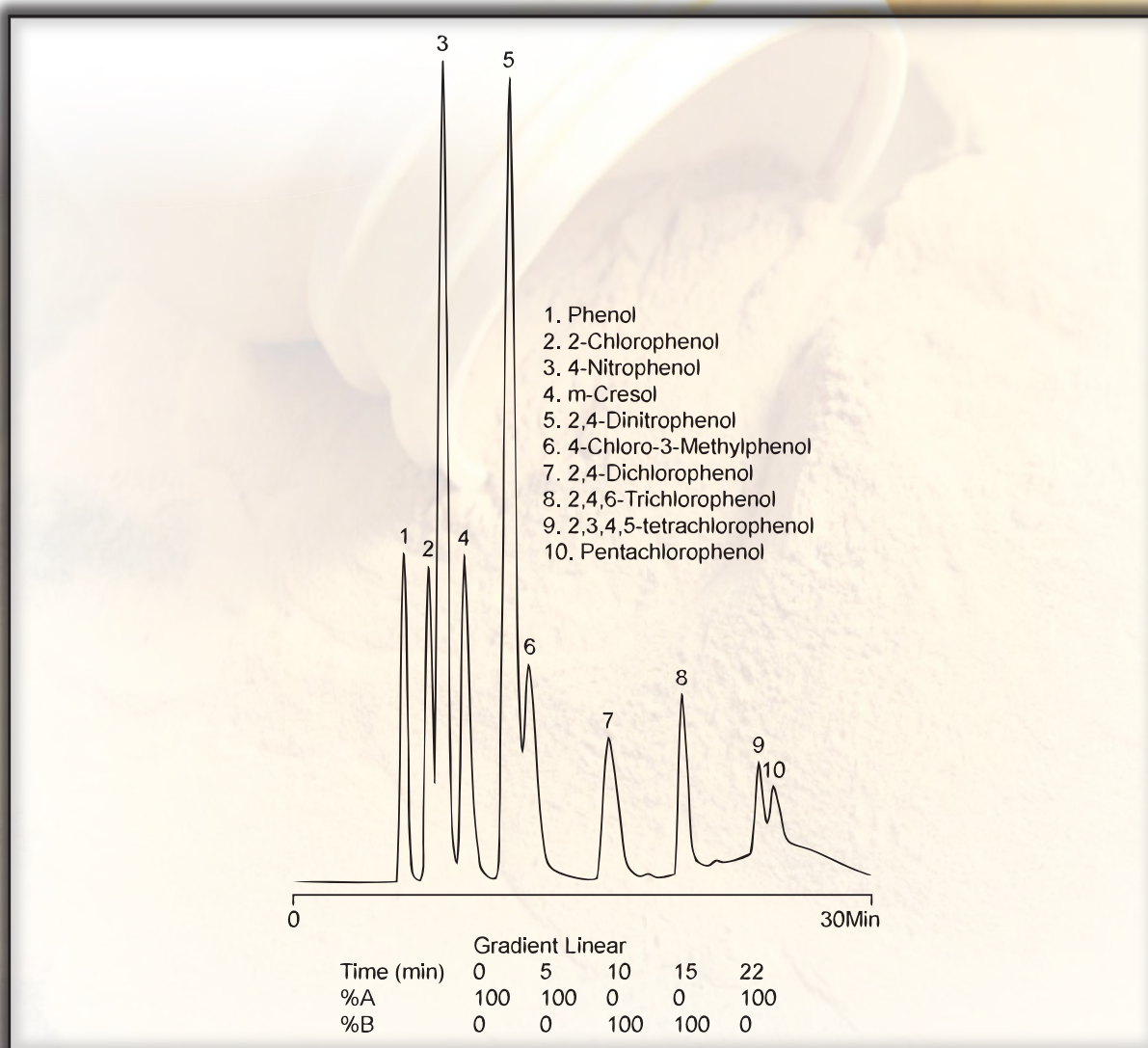


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# HPLC APPLICATION

## PHENOLS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent A:** 44/56 H<sub>2</sub>O/ACN w/0.1% TFA  
**Solvent B:** 10/90 H<sub>2</sub>O/ACN w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 2µL of 2mg/mL solution  
**Temperature:** 25°C  
**Detector:** UV @280nm





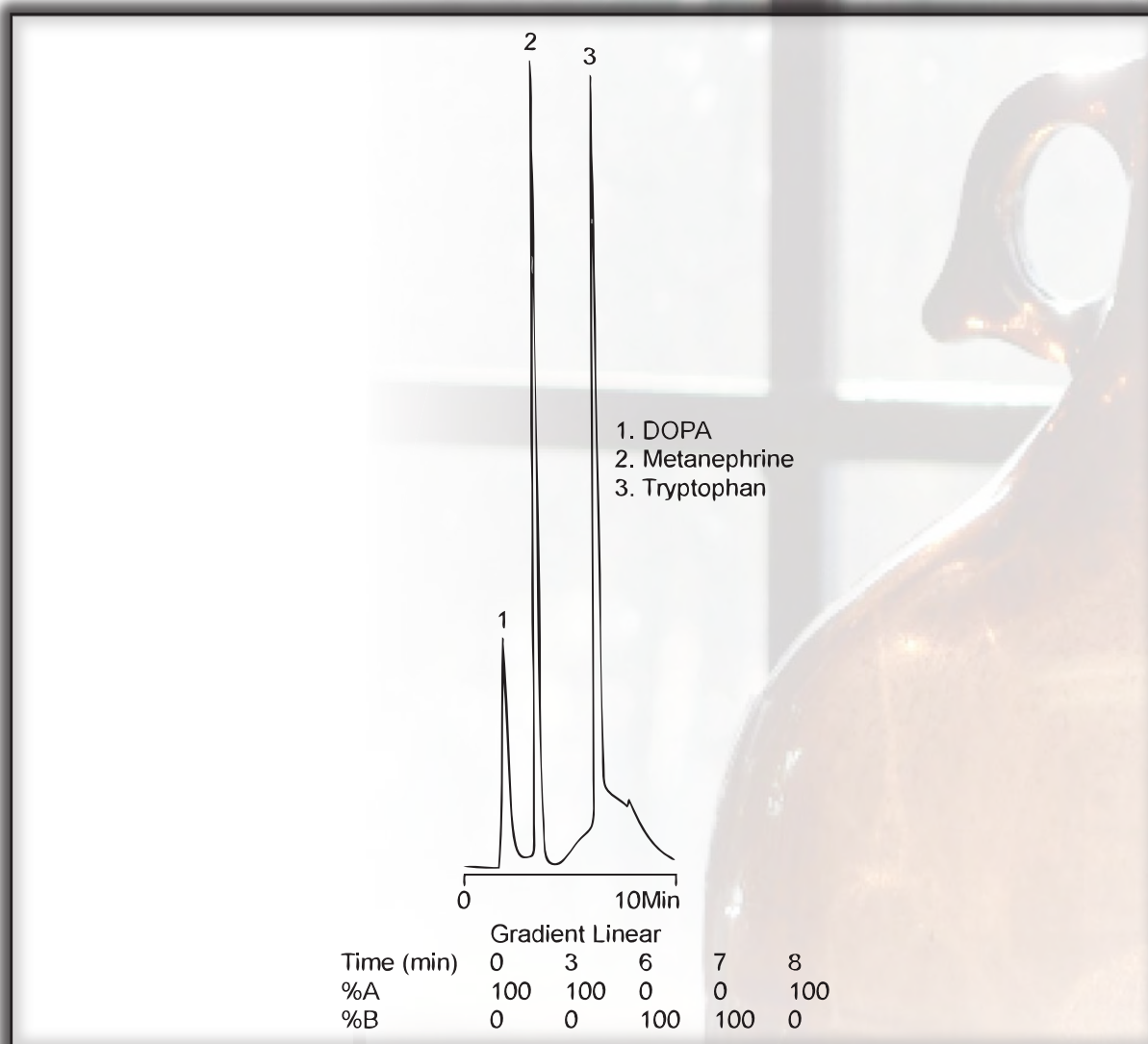


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# HPLC APPLICATION

## CATECHOLAMINES

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent A:** 98/1/1 0.01M NaH<sub>2</sub>PO<sub>4</sub>/ACN/Butylamine  
**Solvent B:** 79/20/1 0.01M NaH<sub>2</sub>PO<sub>4</sub>/ACN/Butylamine  
**Flow Rate:** 0.7mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @280nm





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# HPLC APPLICATION

## ALKALOID DRUGS

**Part Number:** 18503  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 10cm X 4.6mm ID  
**Solvent:** 70/20/10 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Flow Rate:** 0.5mL/min.  
**Injection:** 25µL  
**Temperature:** 25°C  
**Detector:** UV @230nm



1. Codeine (0.14 mg/mL)
2. Oxycodone (0.29 mg/mL)
3. Meperidine (0.57 mg/mL)

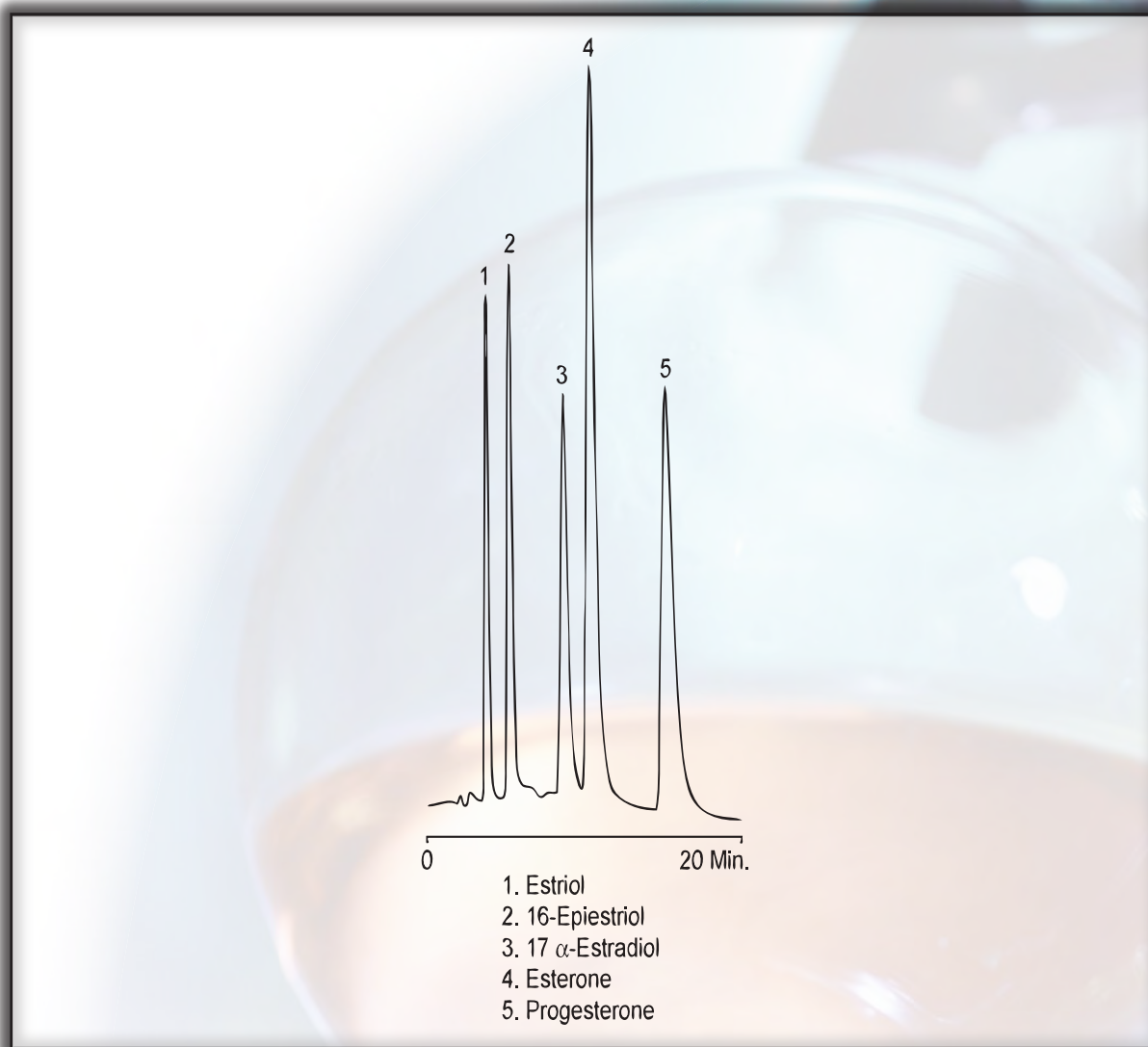


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# HPLC APPLICATION

## STERIODS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 65/35 ACN/H<sub>2</sub>O  
**Flow Rate:** 0.7mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @215nm, 0.62 AUFS





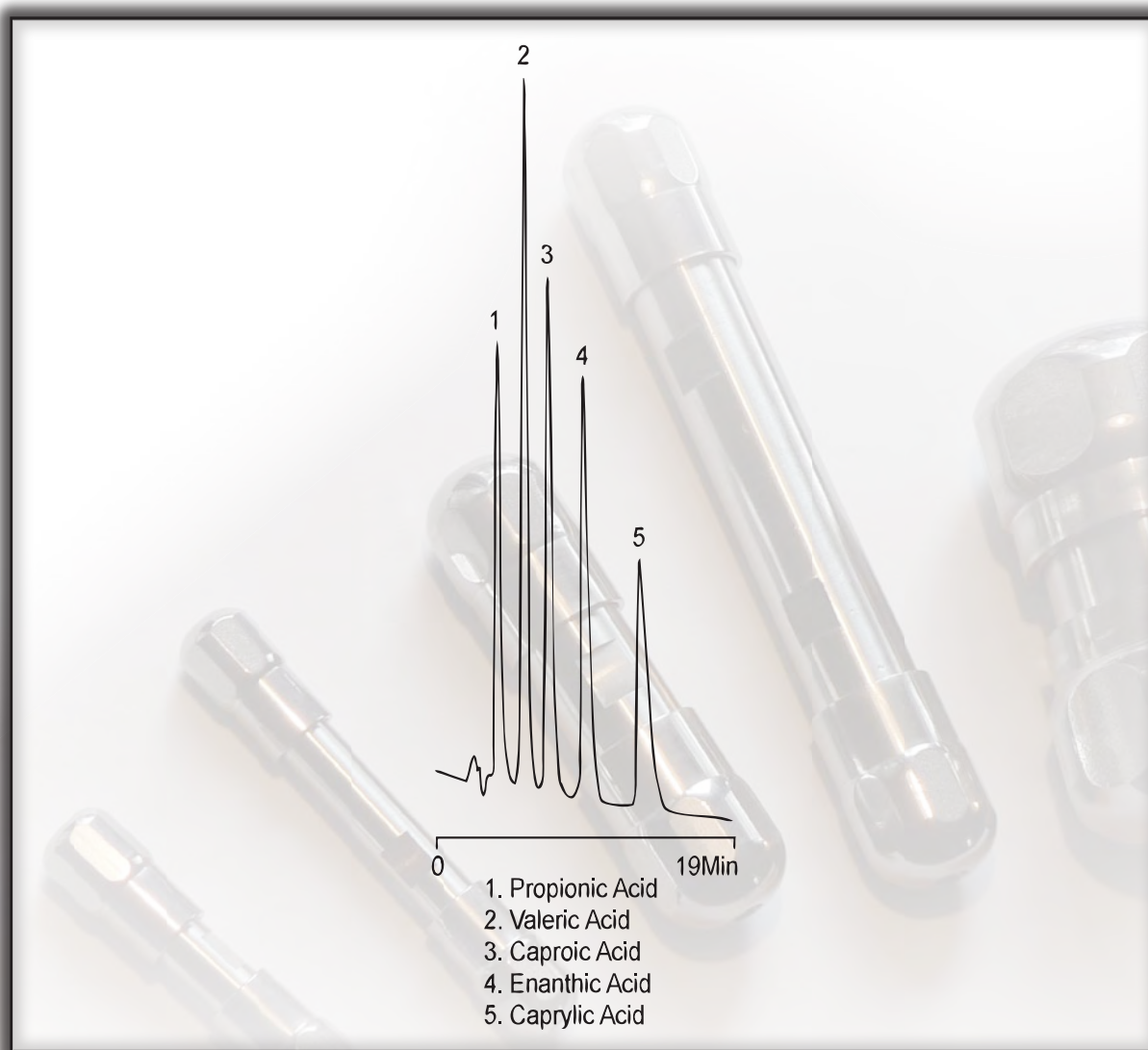


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# HPLC APPLICATION

## SHORT CHAIN FATTY ACIDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/50 ACN/H<sub>2</sub>O/H<sub>3</sub>PO<sub>4</sub>  
**Flow Rate:** 0.7mL/min.  
**Injection:** 150µL  
**Temperature:** 25°C  
**Detector:** UV @210nm, 0.6 AUFS



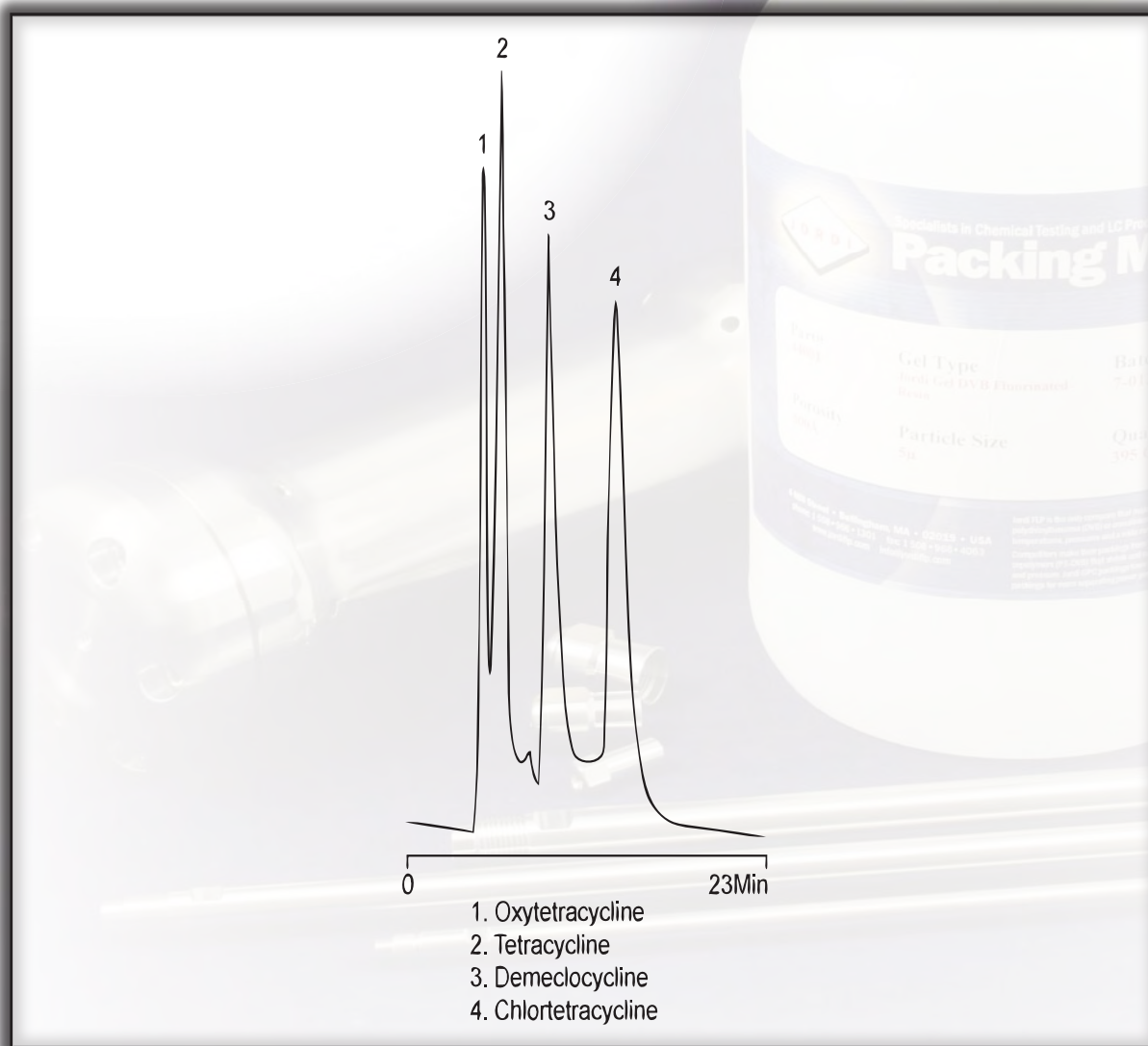


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# HPLC APPLICATION

## TETRACYCLINE and RELATED COMPOUNDS

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 20/80 ACN/H<sub>2</sub>O w/0.1% TFA  
**Flow Rate:** 0.7mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @300nm, 0.5 AUFS



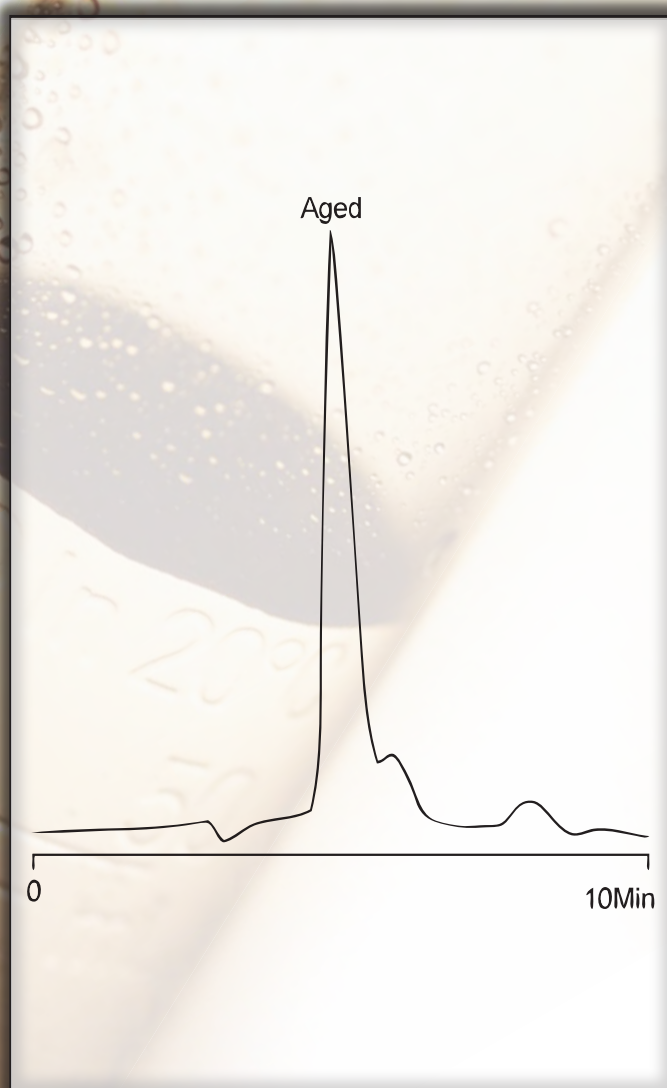
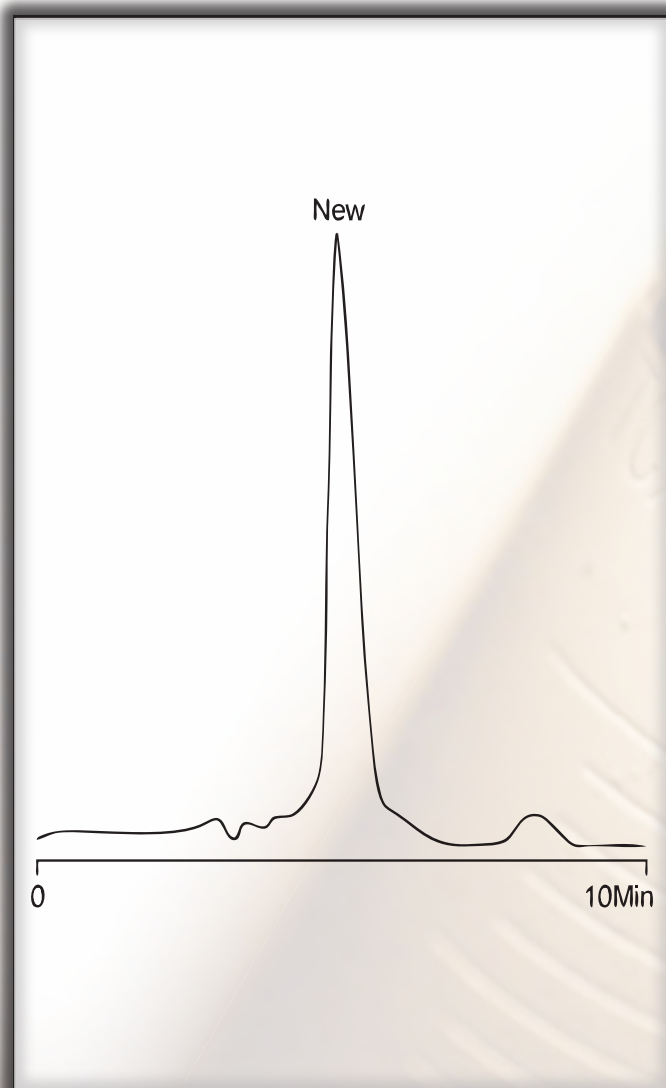


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# HPLC APPLICATION

## ERYTHROMYCIN (New and Aged)

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 45/23/32 ACN/0.05M KH<sub>2</sub>PO<sub>4</sub>/MeOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 35µL of 6mg/mL  
**Temperature:** 25°C  
**Detector:** RI (Waters 401) @8X





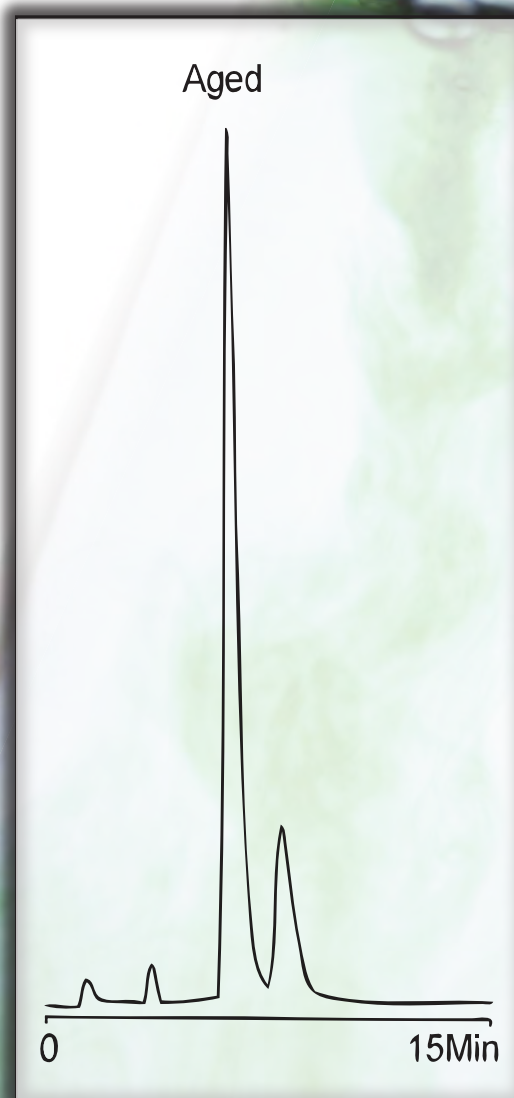
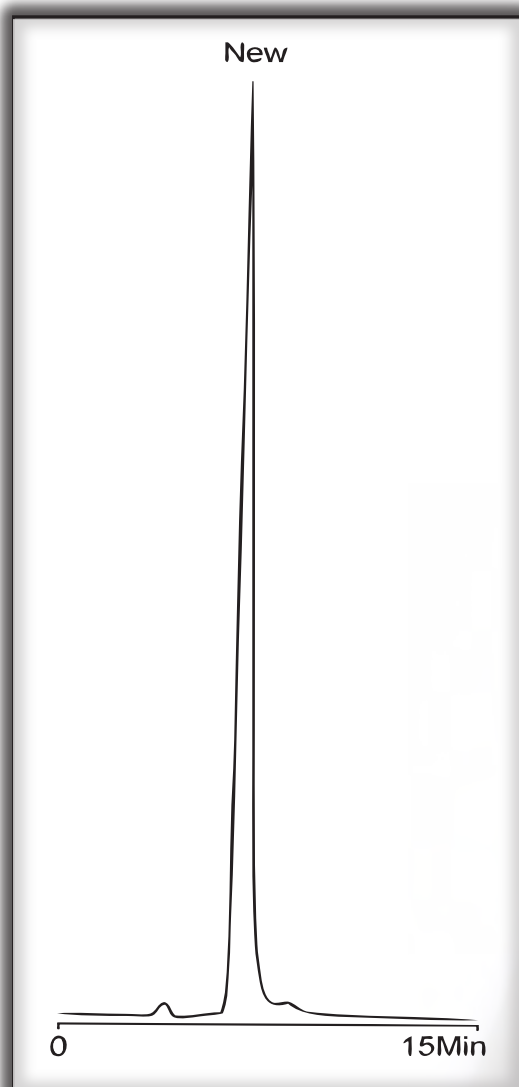


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# HPLC APPLICATION

PENICILLIN  
(New and Aged)

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/50 ACN/0.05M KH<sub>2</sub>PO<sub>4</sub>  
**Flow Rate:** 0.7mL/min.  
**Injection:** 1.5µL of 17mg/mL  
**Temperature:** 25°C  
**Detector:** UV @220nm 2.0 AUFS



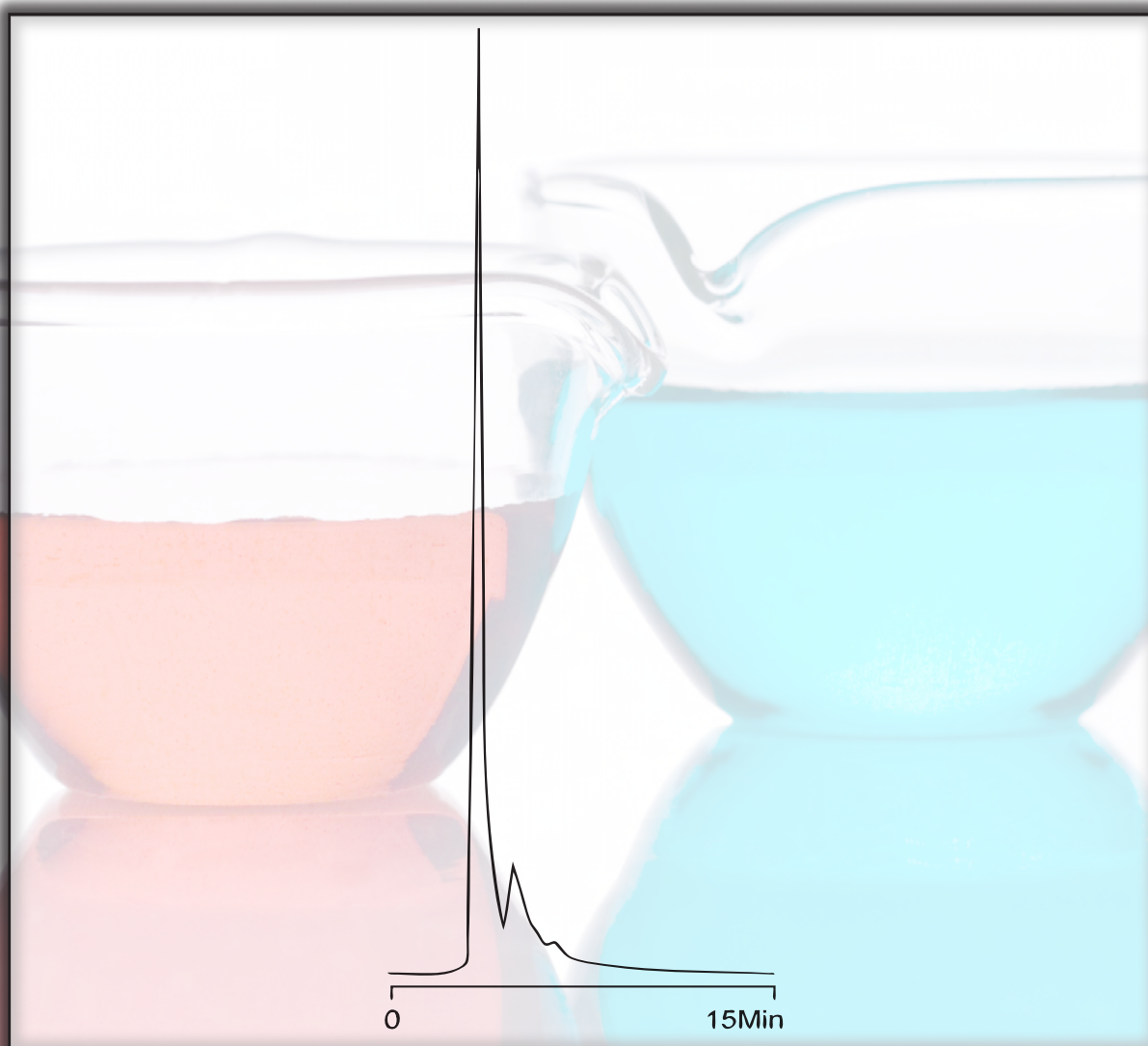


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## AMPICILLIN

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/50 ACN/0.05M KH<sub>2</sub>PO<sub>4</sub>  
**Flow Rate:** 0.7mL/min.  
**Injection:** 3μL of 14mg/mL  
**Temperature:** 25°C  
**Detector:** UV @210nm 2.0 AUFS



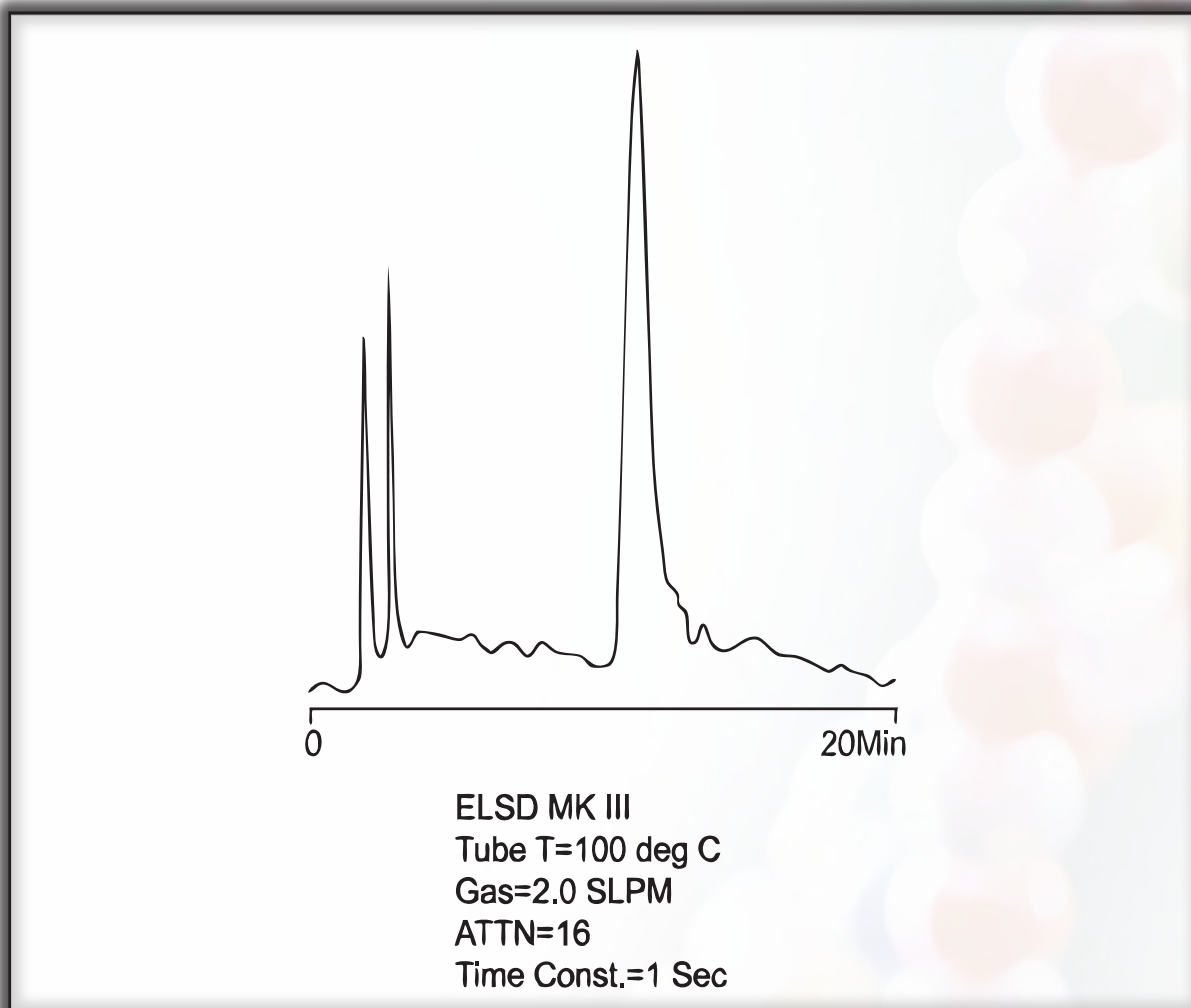
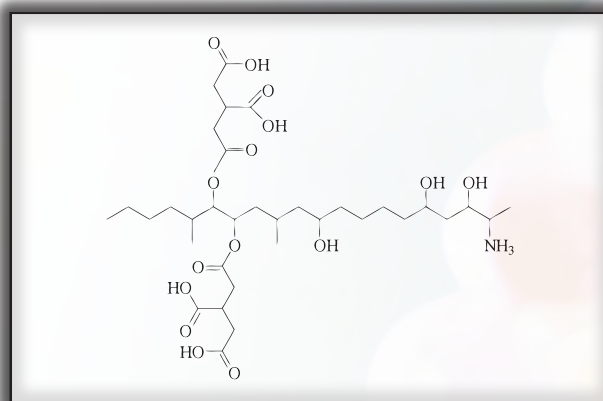


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

FUMONISIN B<sub>1</sub>  
(From *Fusarium Moniliforme*)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 H<sub>2</sub>O/ACN/MeOH  
 pH=3.5 w/ Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 250µL of 250ppm Solution in  
 MeOH/H<sub>2</sub>O (80/20)  
**Temperature:** 40°C  
**Detector:** Evaporative Light Scattering





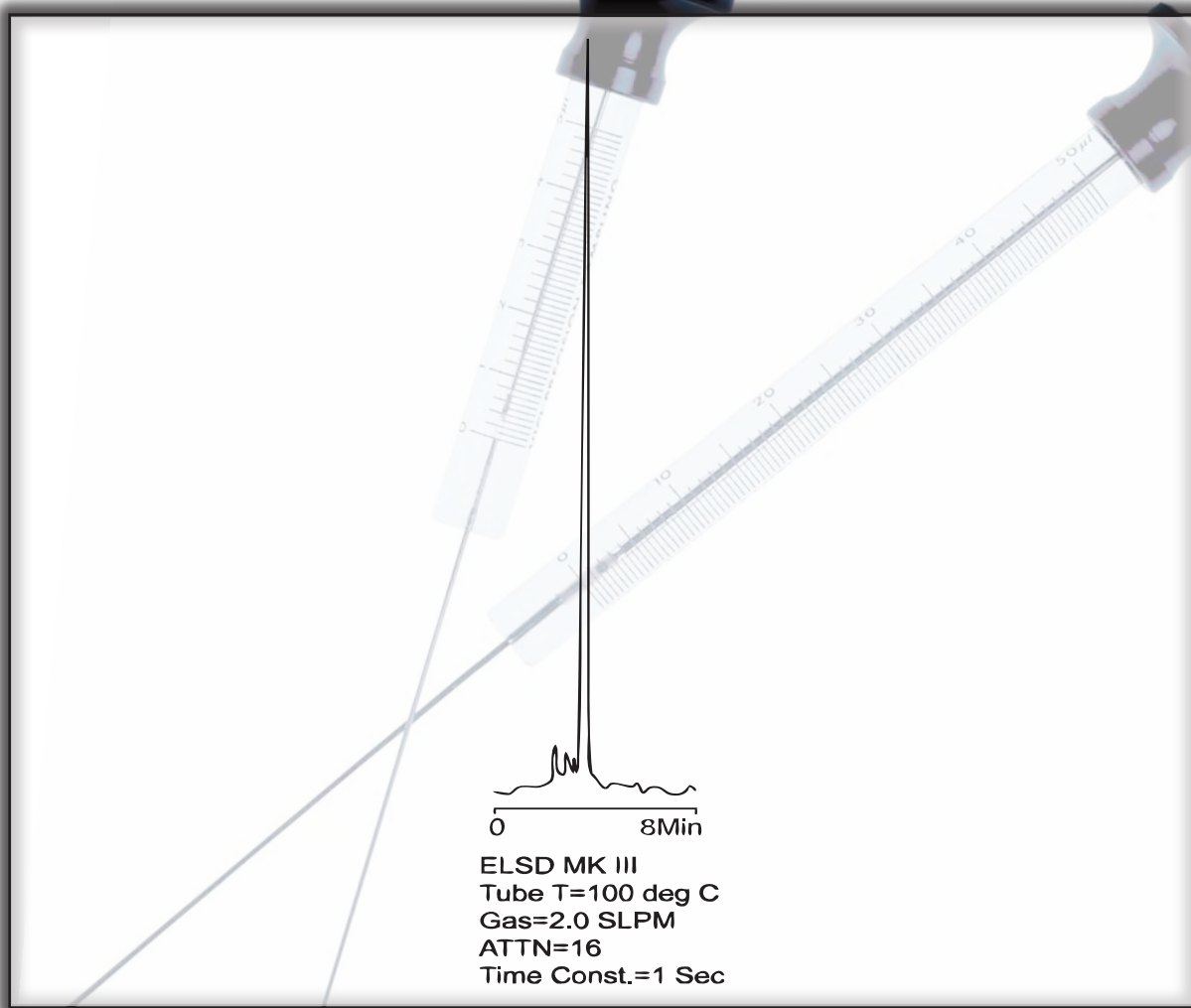
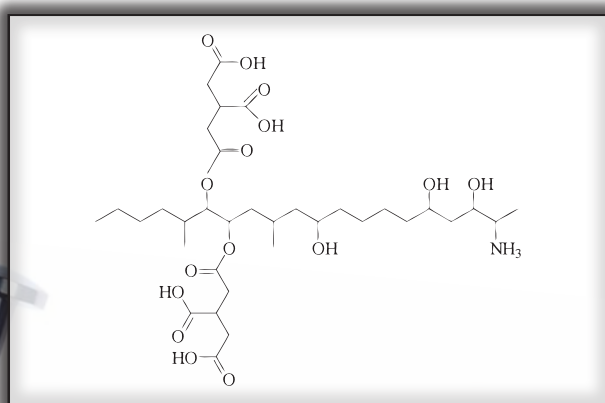


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

**FUMONISIN B<sub>1</sub>**  
(From *Fusarium Moniliforme*)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 H<sub>2</sub>O/MeOH/ACN  
 pH=3.0 w/Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 250µL of 250ppm Solution in  
 MeOH/H<sub>2</sub>O (80/20)  
**Temperature:** 40°C  
**Detector:** Evaporative Light Scattering



ELSD MK III  
 Tube T=100 deg C  
 Gas=2.0 SLPM  
 ATTN=16  
 Time Const.=1 Sec

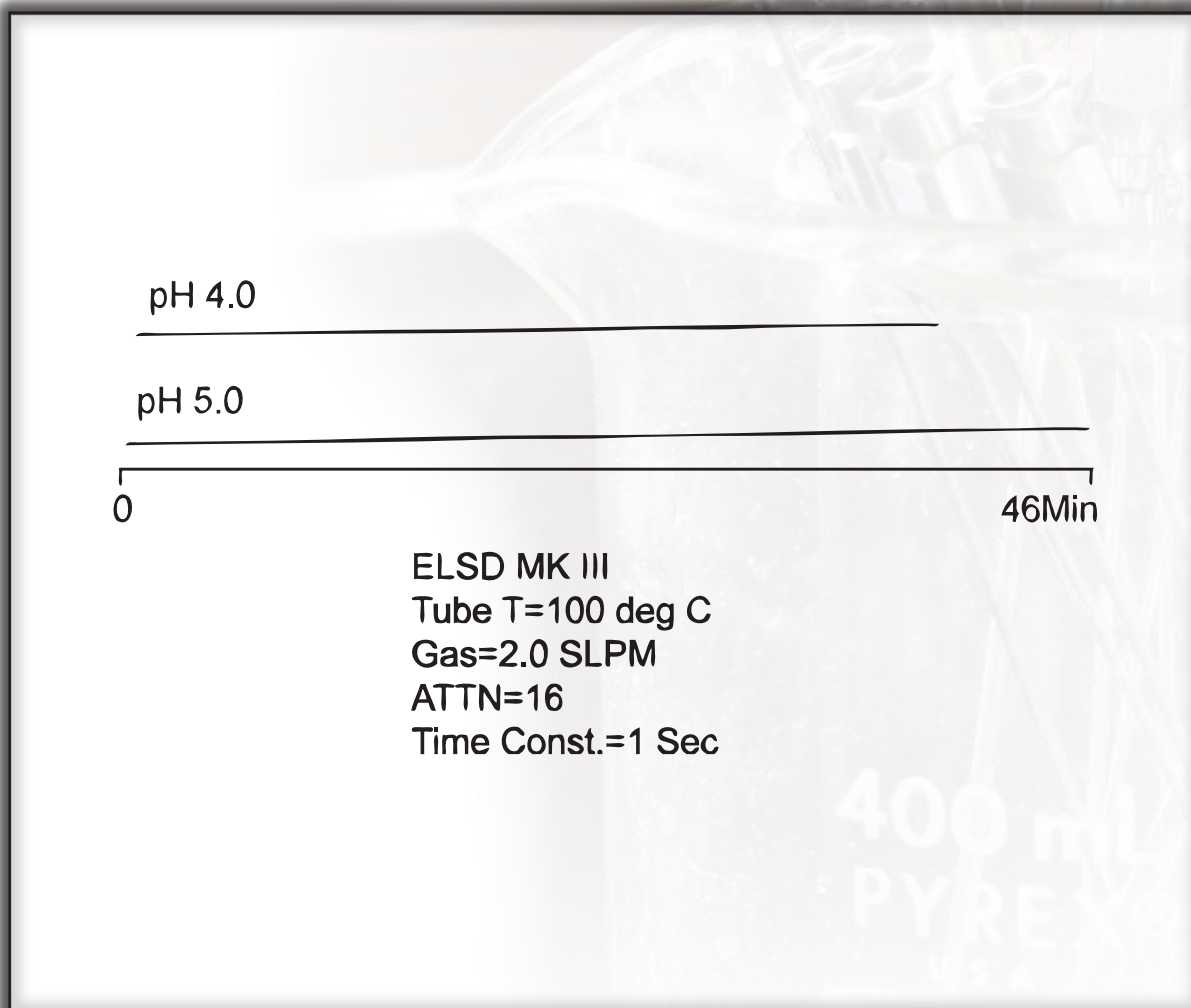
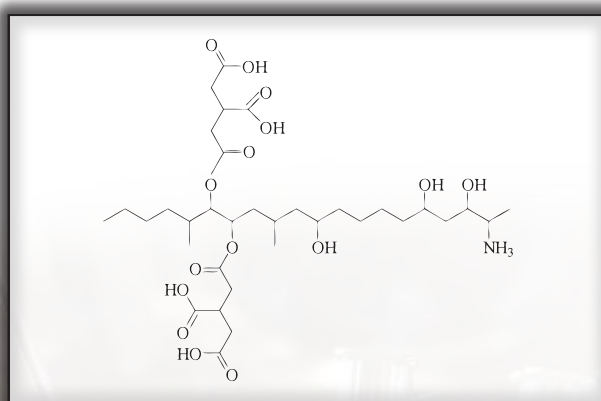


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

**FUMONISIN B<sub>1</sub>**  
(From *Fusarium Moniliforme*)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 H<sub>2</sub>O/MeOH/ACN  
 pH=4.0/5.0 w/Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 250µL of 250ppm Solution in MeOH/  
 H<sub>2</sub>O (80/20)  
**Temperature:** 40°C  
**Detector:** Evaporative Light Scattering



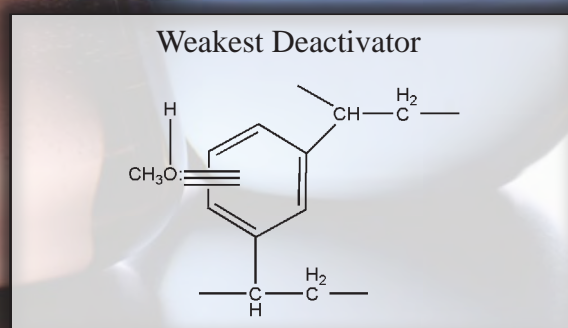
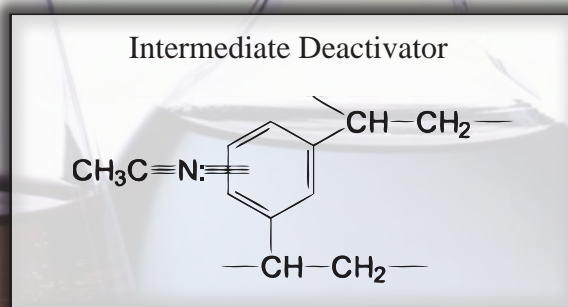
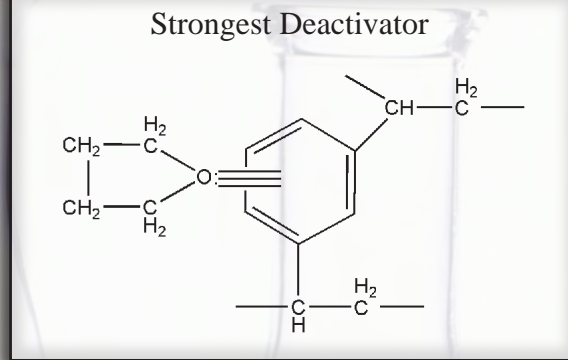
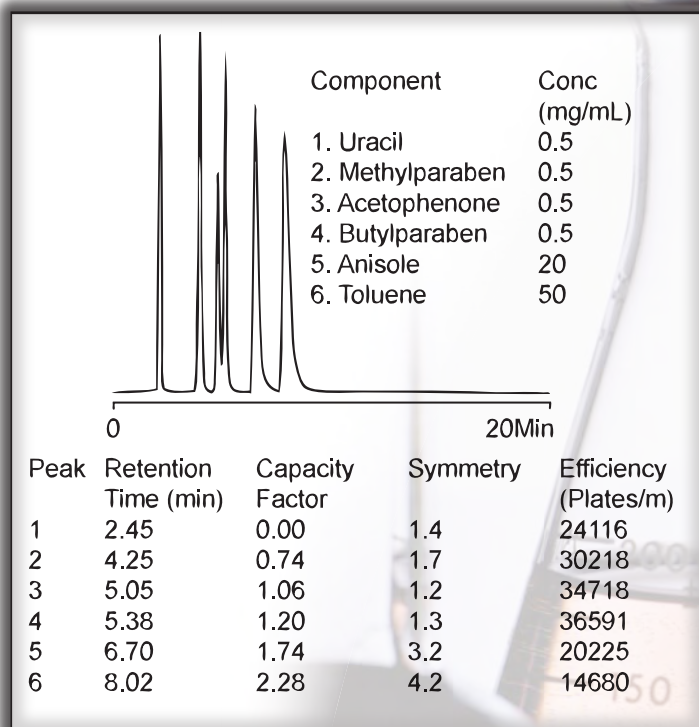


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 60/40 THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 50°C  
**Detector:** UV @254nm



Note: The importance of solvent/column interaction using Jordi DVB columns *cannot* be overemphasized. We have found that a 50/50/ mix of MeOH/ACN for the strong solvent is adequate for many Reverse-Phase separations and is better than either alone. We have now observed that the use of THF/ACN as strong solvent is often better than MeOH/ACN. In general Lewis bases (electron donor solvents) deactivate the aromatic rings and often dramatically increase the column efficiencies. The following data describes some Reverse Phase results for our 500Å DVB Column.



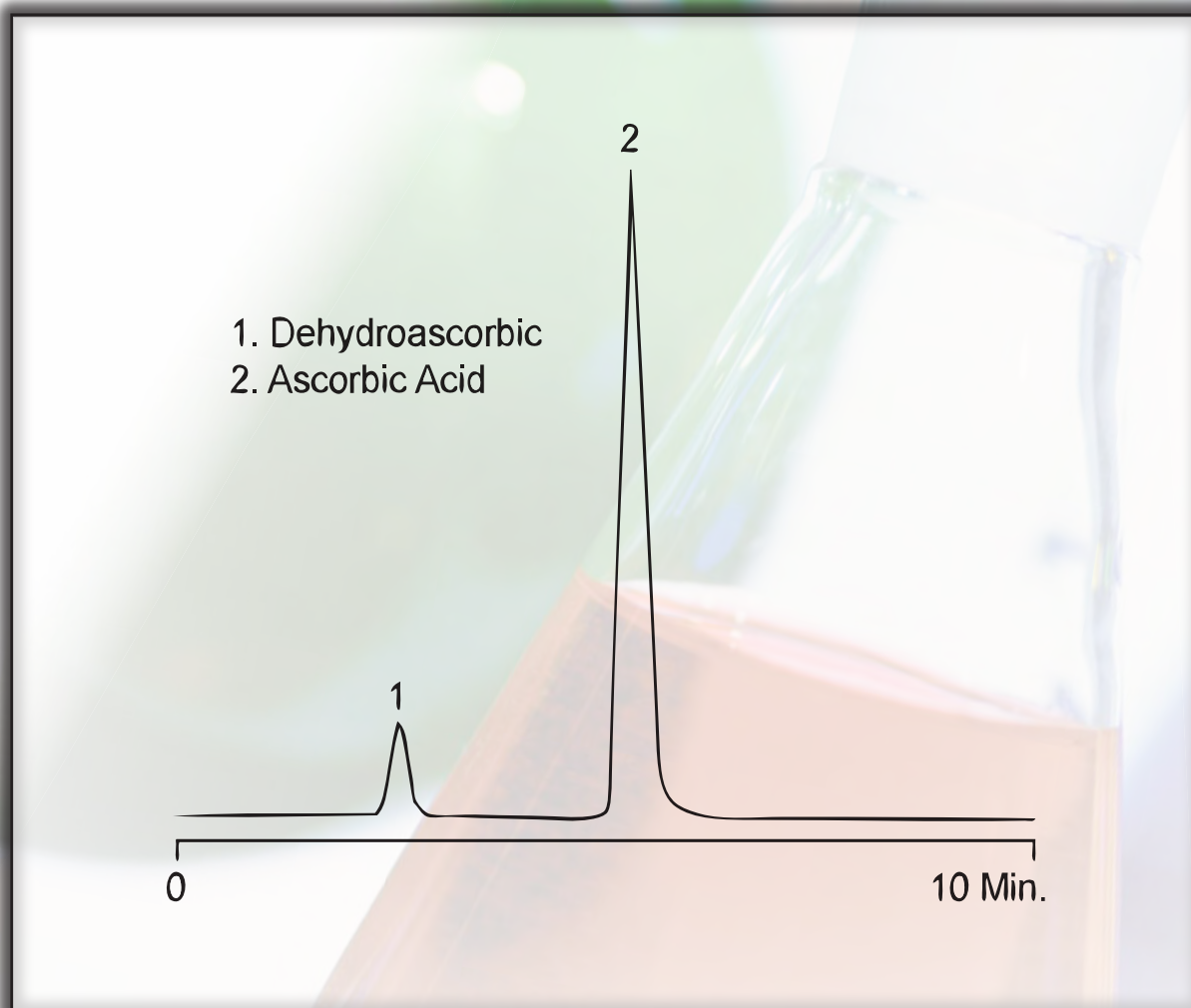


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## ASCORBIC and DEHYDROASCORBIC ACID

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 40:60 Water (pH 2.7 w/ Acetic Acid)/Acetonitrile/Methanol (5:1)  
**Flow Rate:** 0.7mL/min.  
**Injection:** 10µL  
**Concentration:** 1mg/mL  
**Temperature:** Ambient  
**Detector:** ELSD



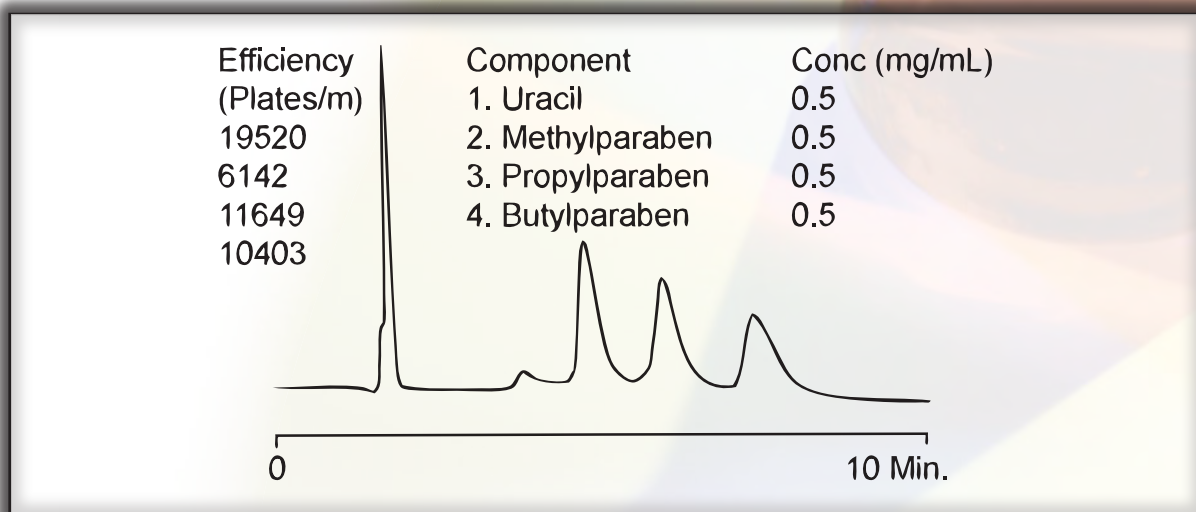
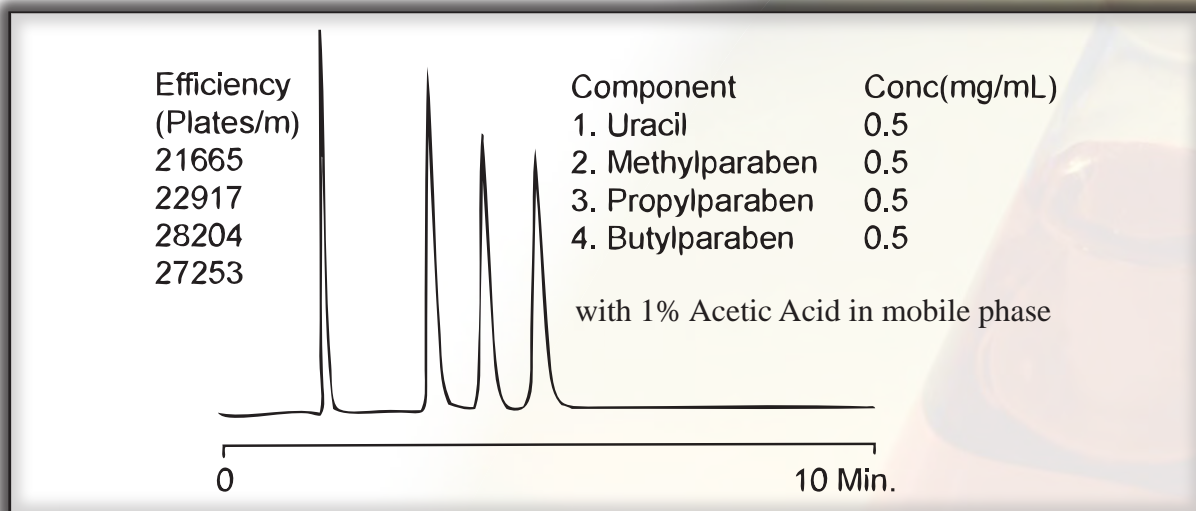


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# HPLC APPLICATION

## RP MIX

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 10/20/30/40 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Concentration:** N/A  
**Temperature:** 50°C  
**Detector:** UV @254nm, Sens. 2.0 AUFS, Press. 1900 psig



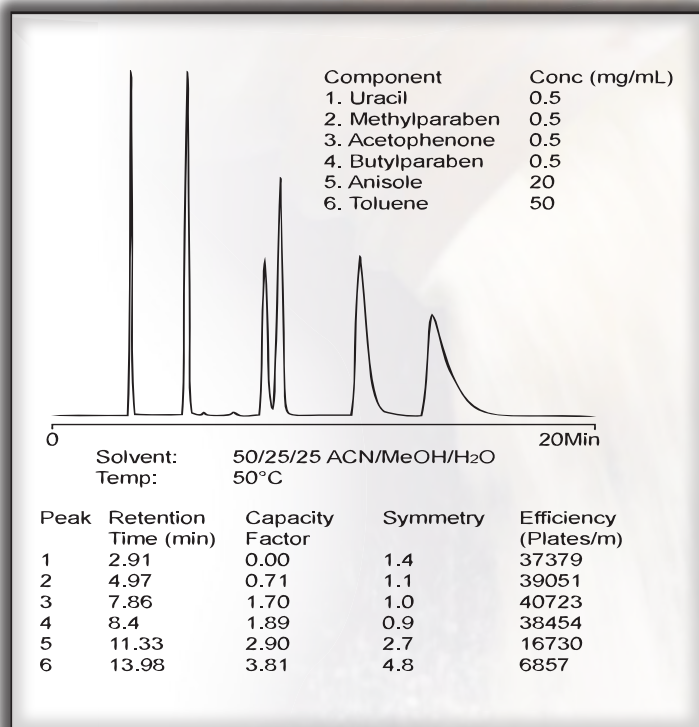


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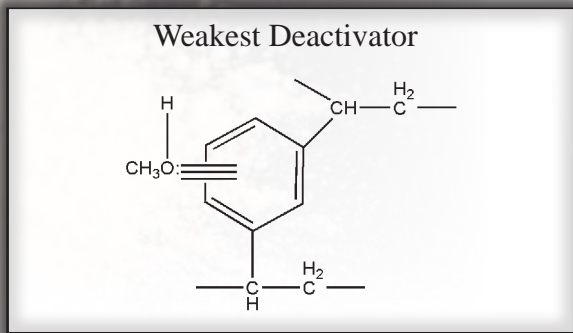
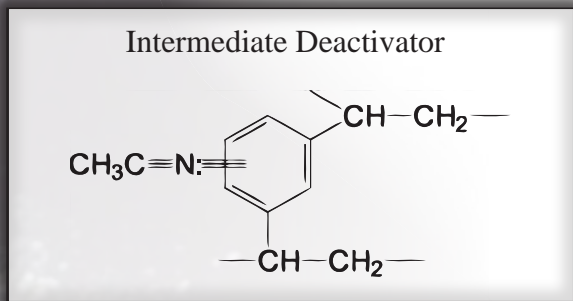
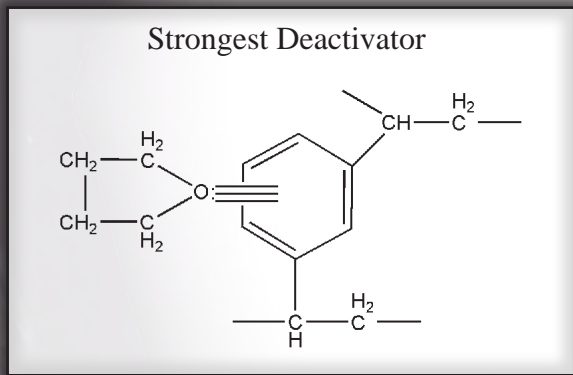
# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 ACN/MeOH/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 1µL  
**Temperature:** Ambient  
**Detector:** UV @254nm



Note: The importance of solvent/column interaction using Jordi DVB columns *cannot* be overemphasized. We have found that a 50/50/ mix of MeOH/ACN for the strong solvent is adequate for many Reverse-Phase separations and is better than either alone. We have now observed that the use of THF/ACN as strong solvent is often better than MeOH/ACN. In general Lewis bases (electron donor solvents) deactivate the aromatic rings and often dramatically increase the column efficiencies. The following data describes some Reverse Phase results for our 500Å DVB Column.





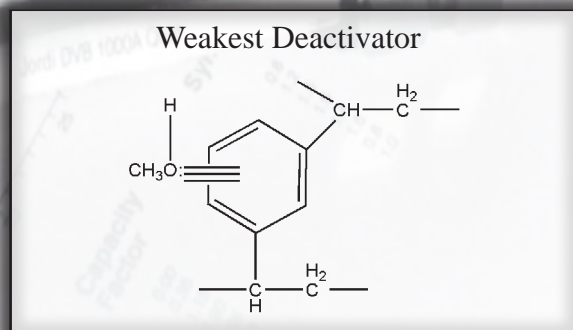
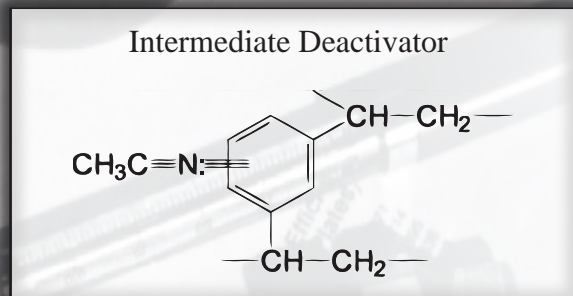
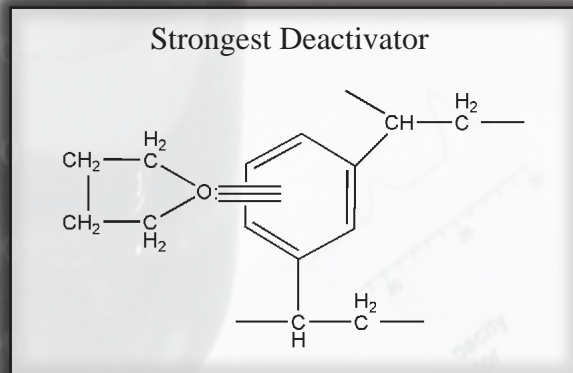
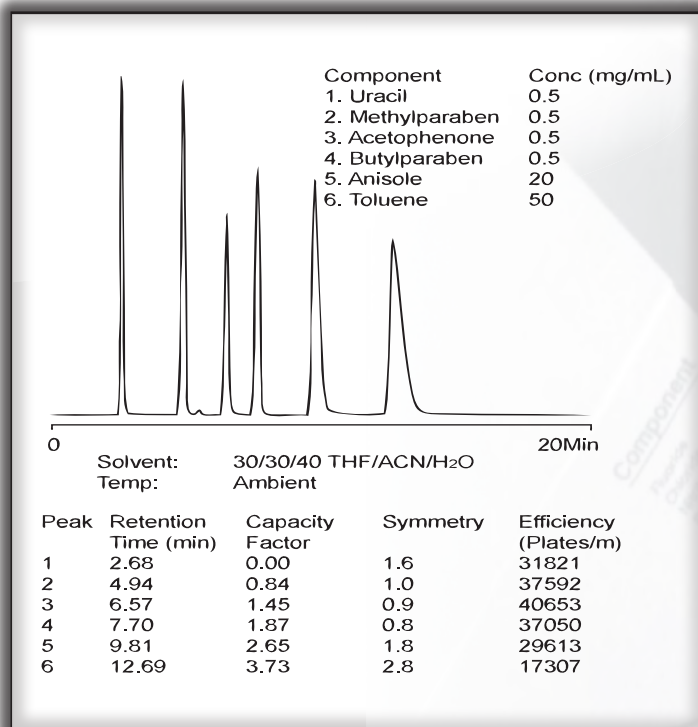


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 30/30/40 THF/ACN/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 60°C  
**Detector:** UV @254nm



Note: The importance of solvent/column interaction using Jordi DVB columns *cannot* be overemphasized. We have found that a 50/50/ mix of MeOH/ACN for the strong solvent is adequate for many Reverse-Phase separations and is better than either alone. We have now observed that the use of THF/ACN as strong solvent is often better than MeOH/ACN. In general Lewis bases (electron donor solvents) deactivate the aromatic rings and often dramatically increase the column efficiencies. The following data describes some Reverse Phase results for our 500Å DVB Column.

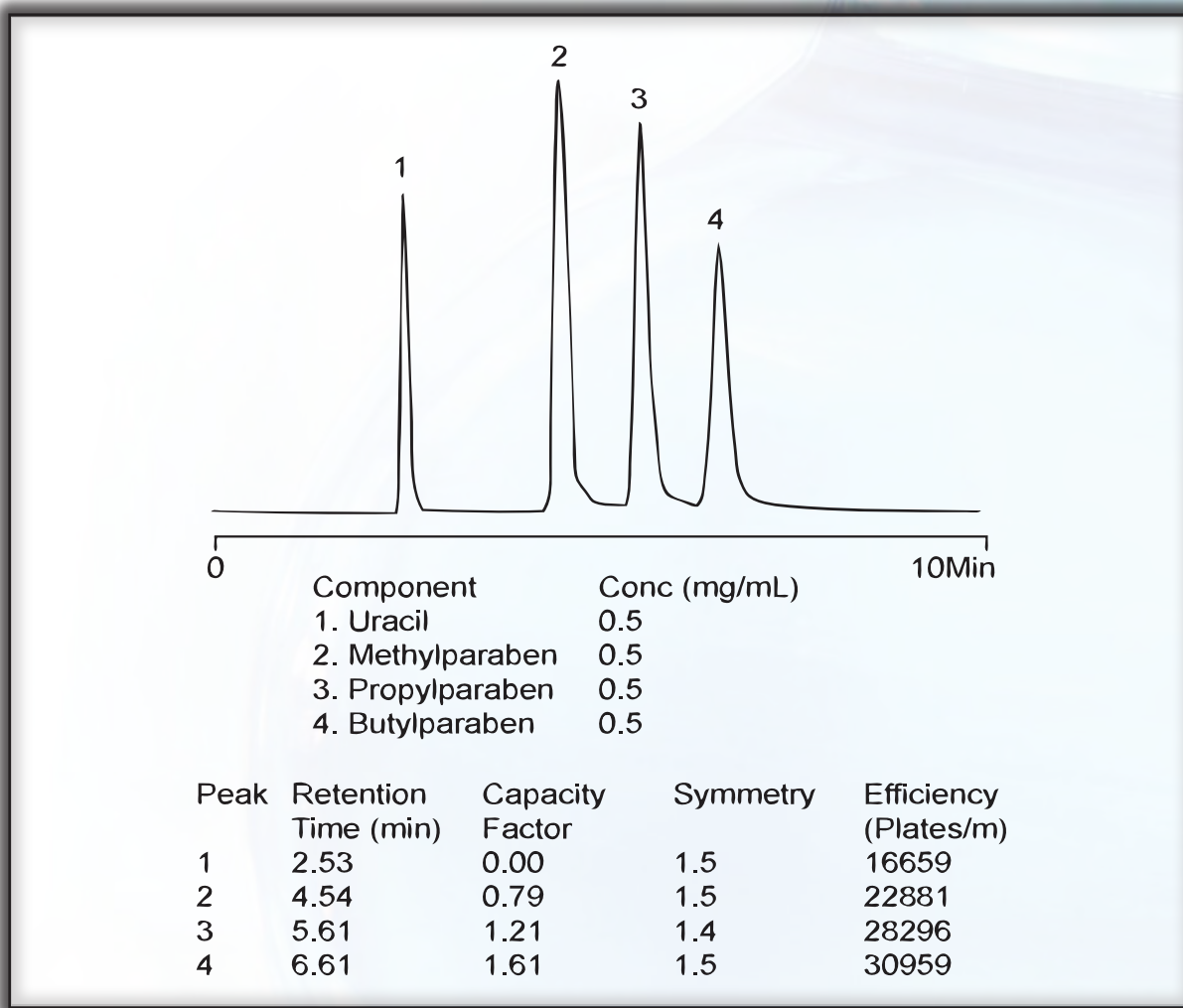


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## REVERSE PHASE MIX

**Part Number:** 18500  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 15cm X 4.6mm ID  
**Mobile Phase:** 10/20/30/40 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 50°C  
**Detector:** UV @254nm, 2.0 AUFS



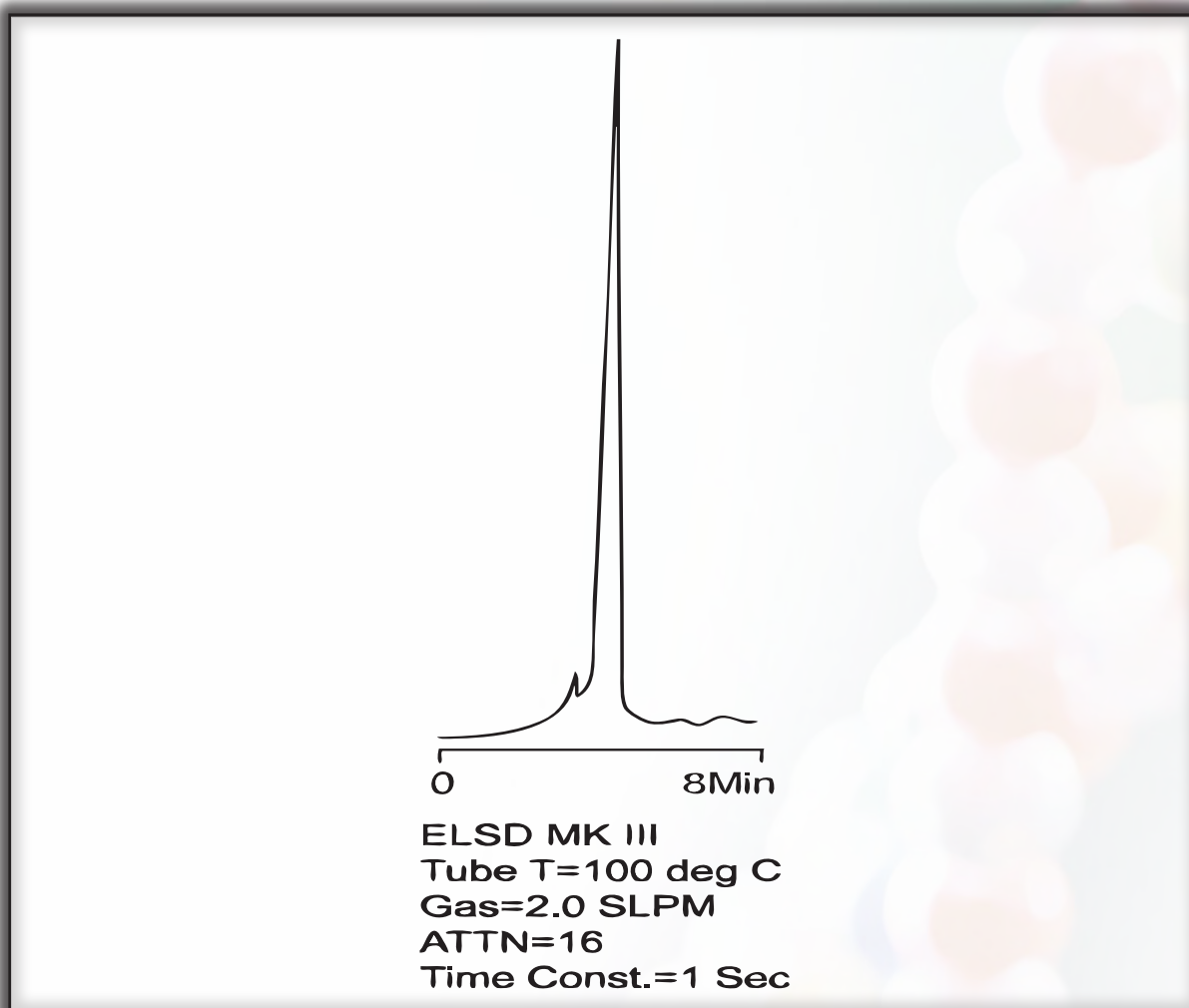
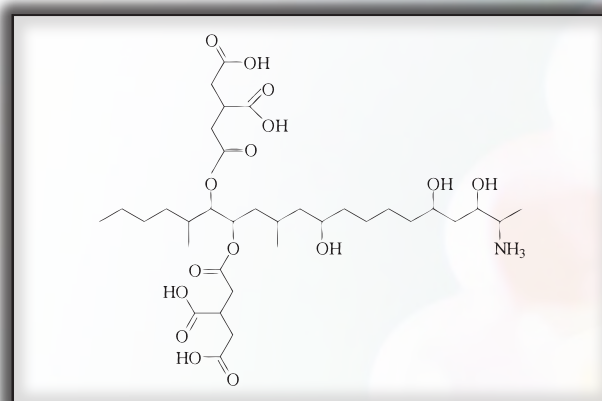


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

FUMONISIN B<sub>1</sub>  
(From Fusarium Moniliforme)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 H<sub>2</sub>O/MeOH/ACN  
 pH=2.7 w/Formic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 250µL of 250ppm Solution in  
 MeOH/H<sub>2</sub>O (80/20)  
**Temperature:** 40°C  
**Detector:** Evaporative Light Scattering,





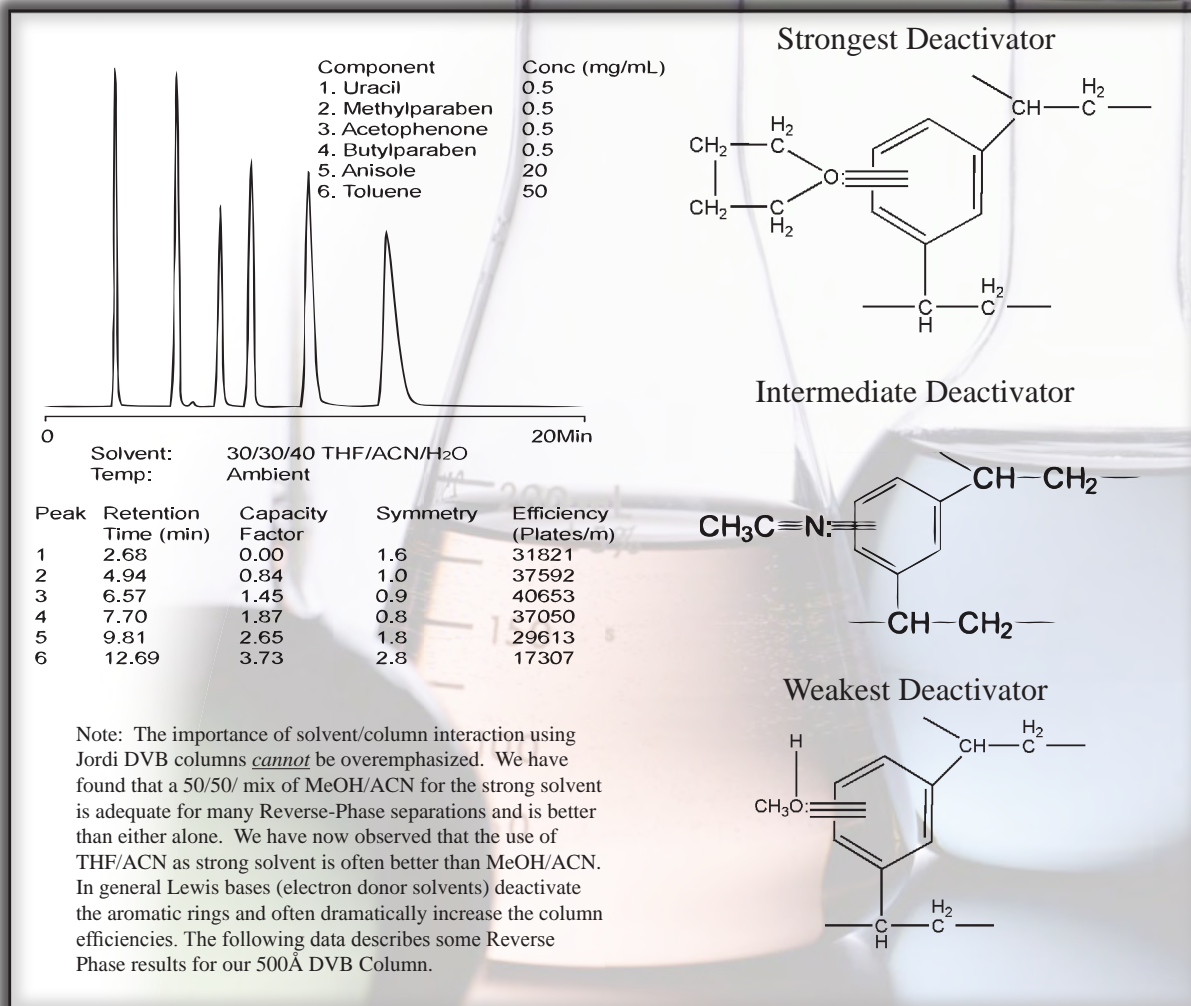


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# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 18501  
**Packing:** Jordi DVB C<sub>18</sub> 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 30/30/40 THF/ACN/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 60°C  
**Detector:** UV @254nm





**DVB**





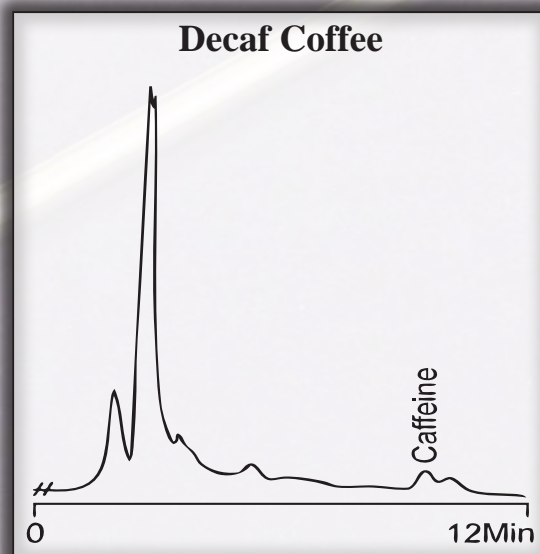
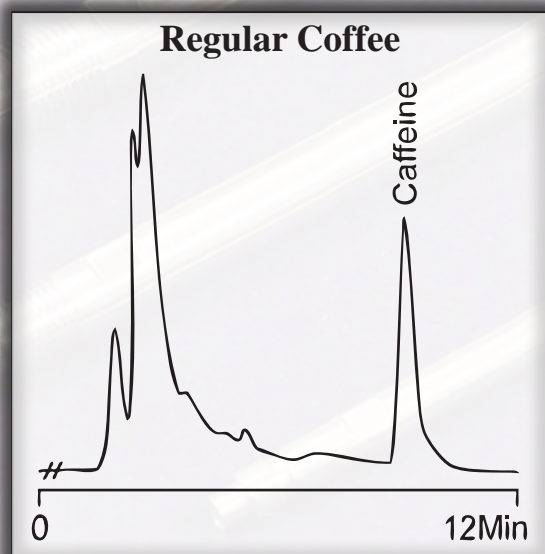
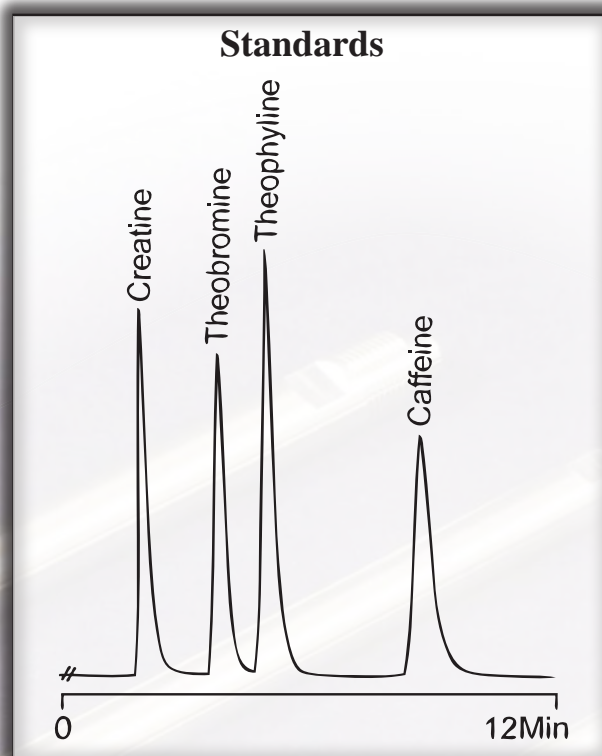


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# HPLC APPLICATION

## CAFFEINE in COFFEE

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/15/35 0.01M LiNO<sub>3</sub>/ACN/MeOH  
**Flow Rate:** 0.5mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @254nm





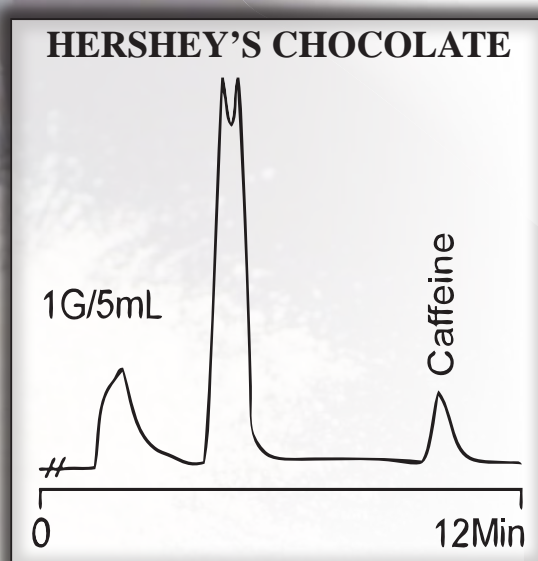
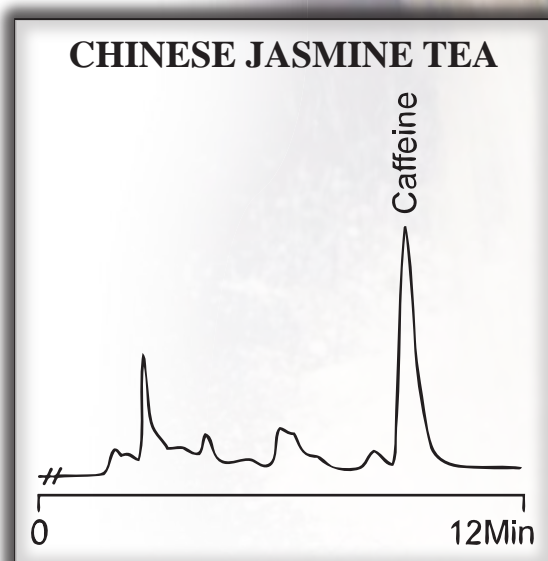
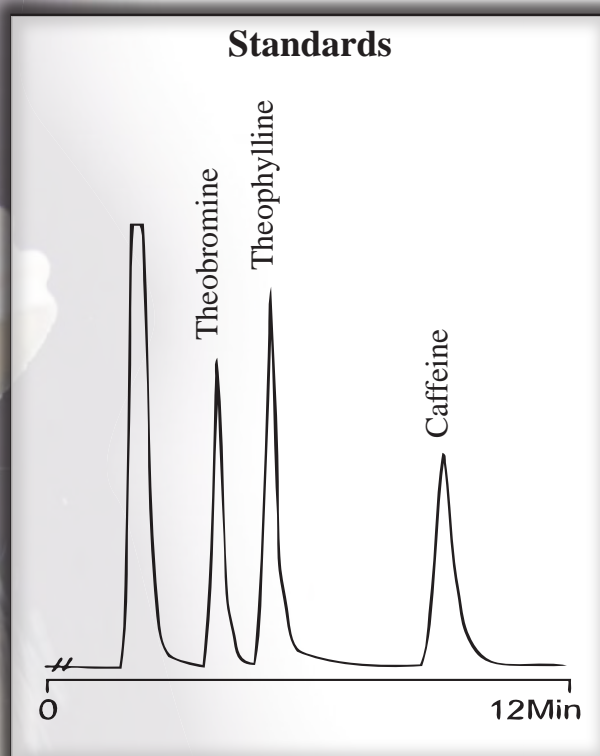


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# HPLC APPLICATION

## CAFFEINE in TEA & CHOCOLATE

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/15/35 H<sub>2</sub>O/ACN/MeOH  
 H<sub>2</sub>O, 0.01M LiNO<sub>3</sub>  
**Flow Rate:** 0.5mL/min.  
**Injection:** 50µL  
**Temperature:** 50°C  
**Detector:** UV @254nm



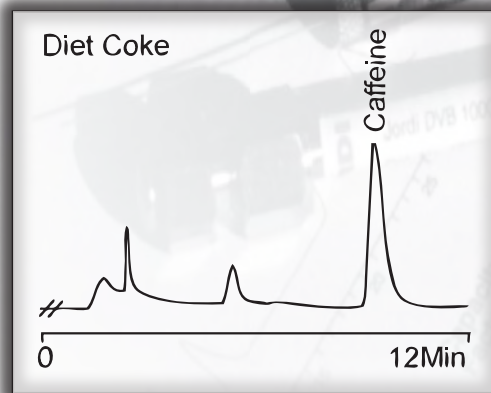
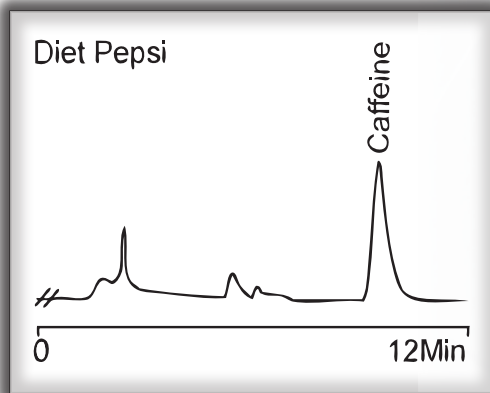
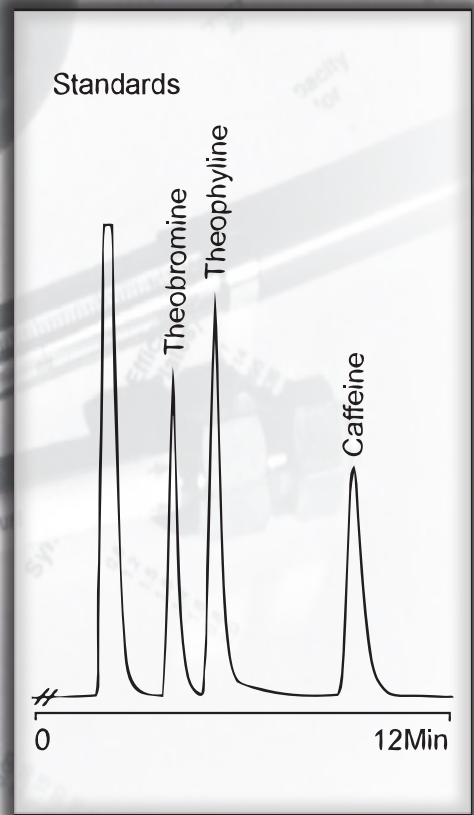
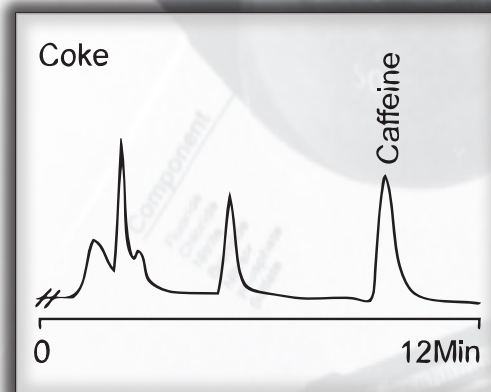
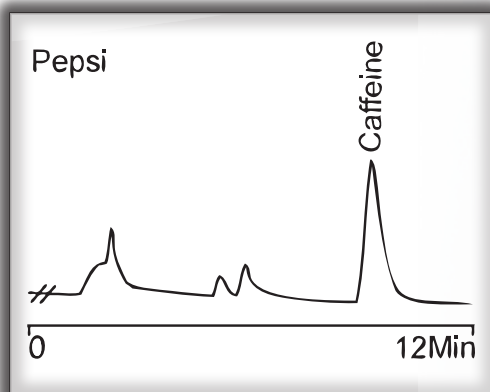


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# HPLC APPLICATION

## CAFFEINE in COKE & PEPSI

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 15cm X 4.6mm ID  
**Solvent:** 50/15/35 0.01M LiNO<sub>3</sub>/ACN/MeOH  
**Flow Rate:** 0.5mL/min.  
**Injection:** 50µL  
**Temperature:** 50°C  
**Detector:** UV @254nm



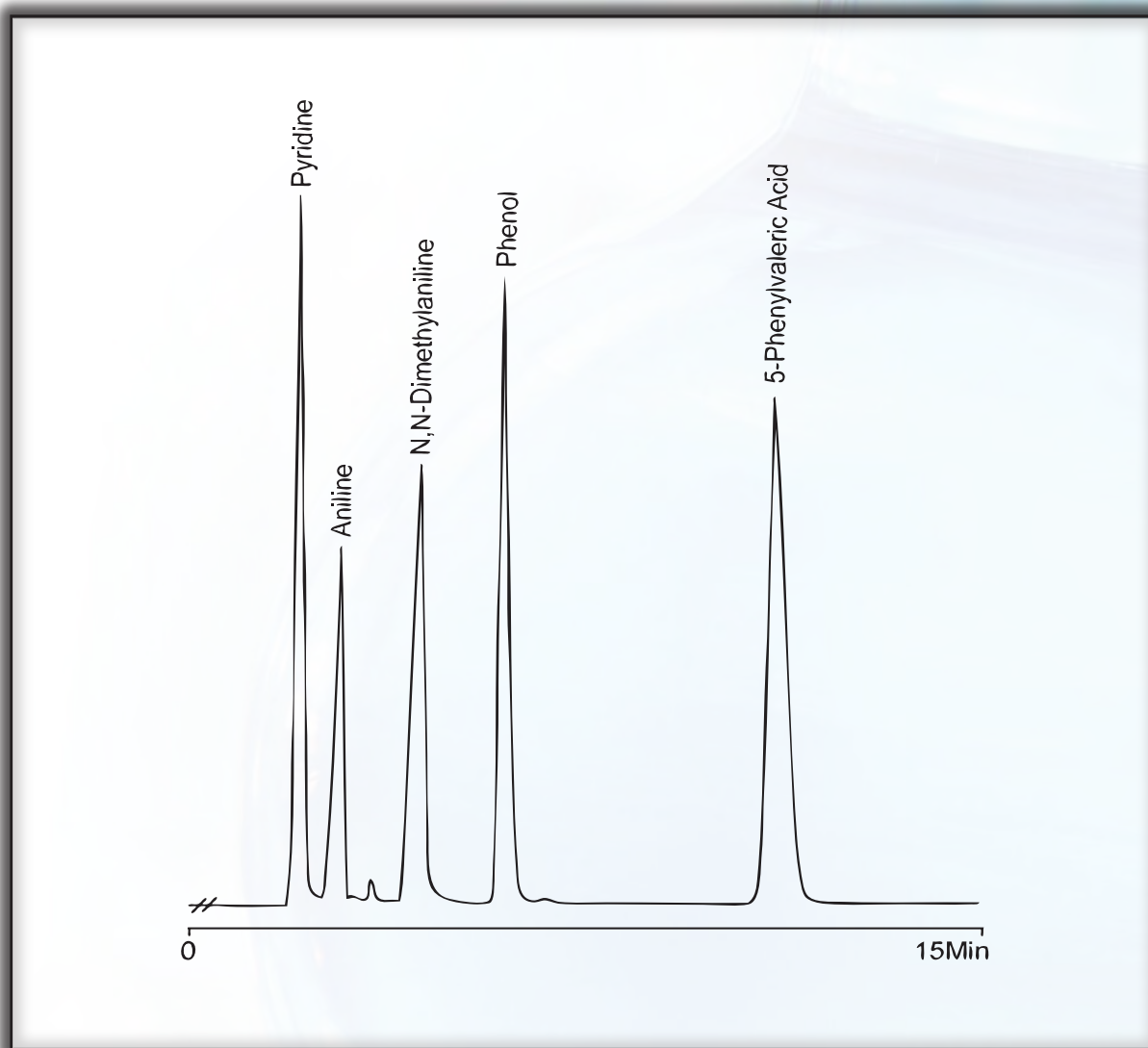


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# HPLC APPLICATION

## BASE-NEUTRAL-ACID TEST MIX

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 55/37.2/7.8 ACN/H<sub>2</sub>O/MeOH  
pH 3.0 w/0.05M Na<sub>2</sub>HPO<sub>4</sub>  
**Flow Rate:** 2.0mL/min.  
**Injection:** 40µL  
**Temperature:** 25°C  
**Detector:** UV @254nm





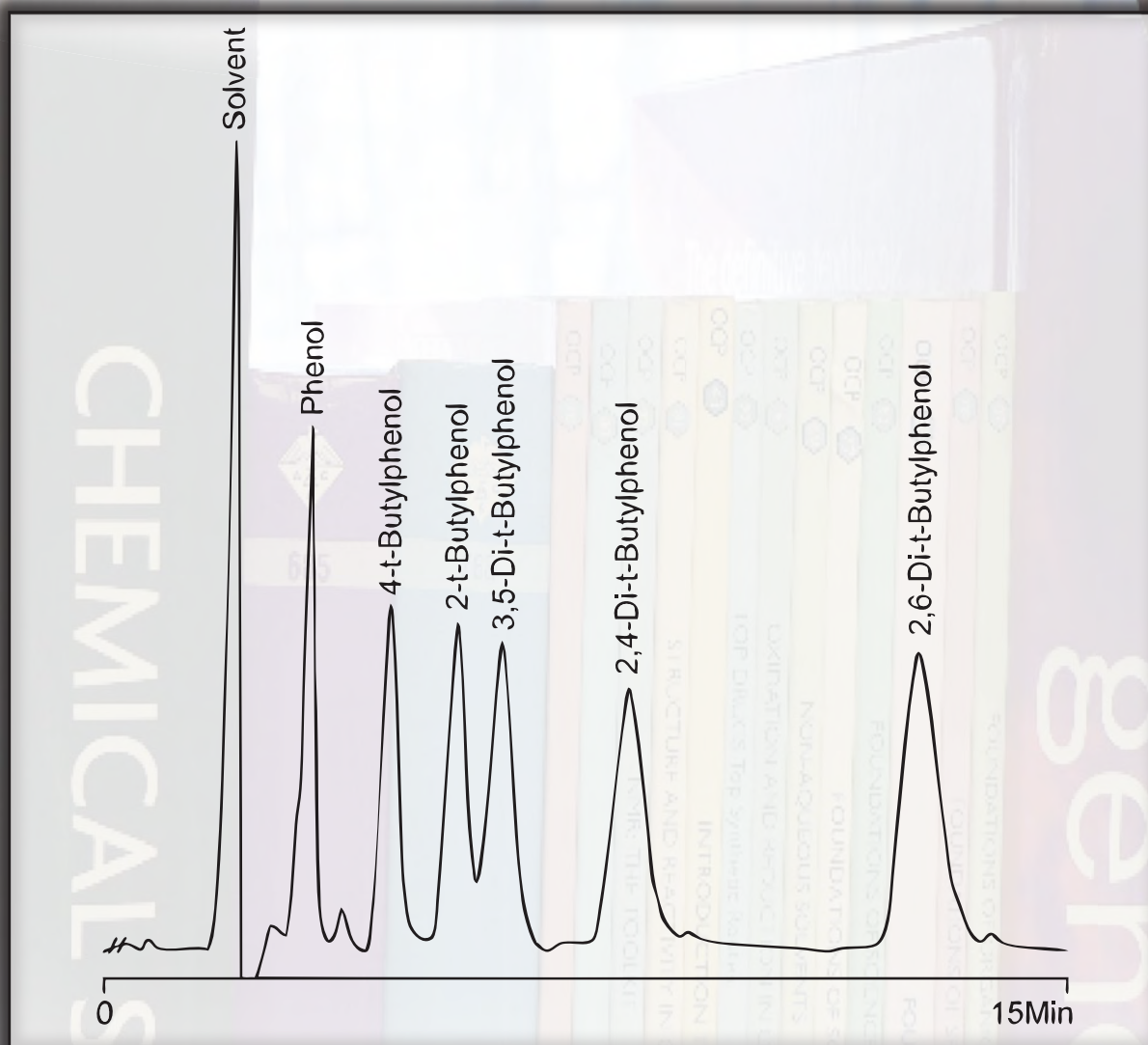


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# HPLC APPLICATION

## BUTYLPHENOL STANDARDS

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 80/20 ACN/H<sub>2</sub>O w/0.05% TFA  
**Flow Rate:** 2.0mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



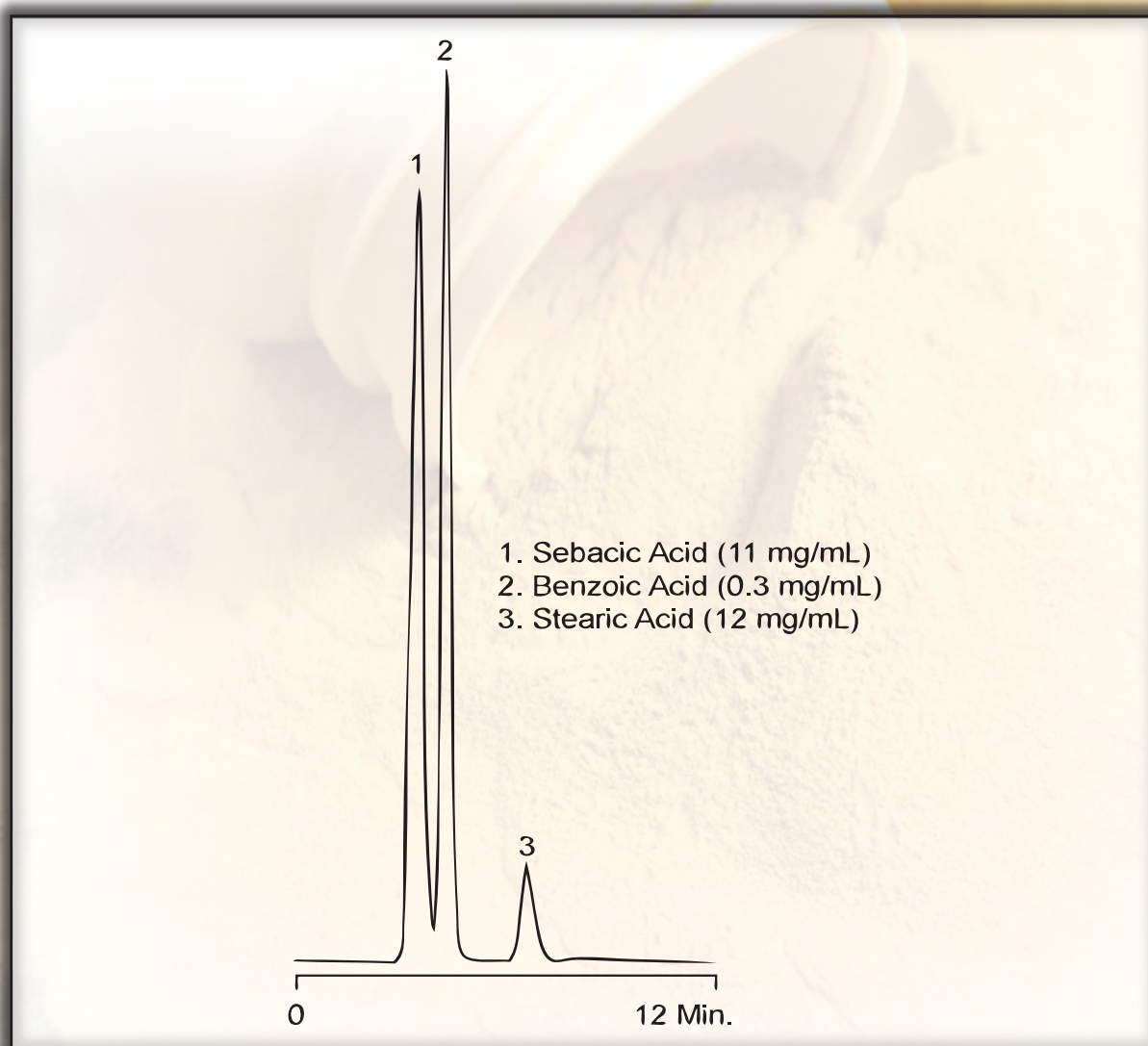


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# HPLC APPLICATION

## ORGANIC ACIDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 90/10 MeOH/THF  
**Flow Rate:** 2.0mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @210nm



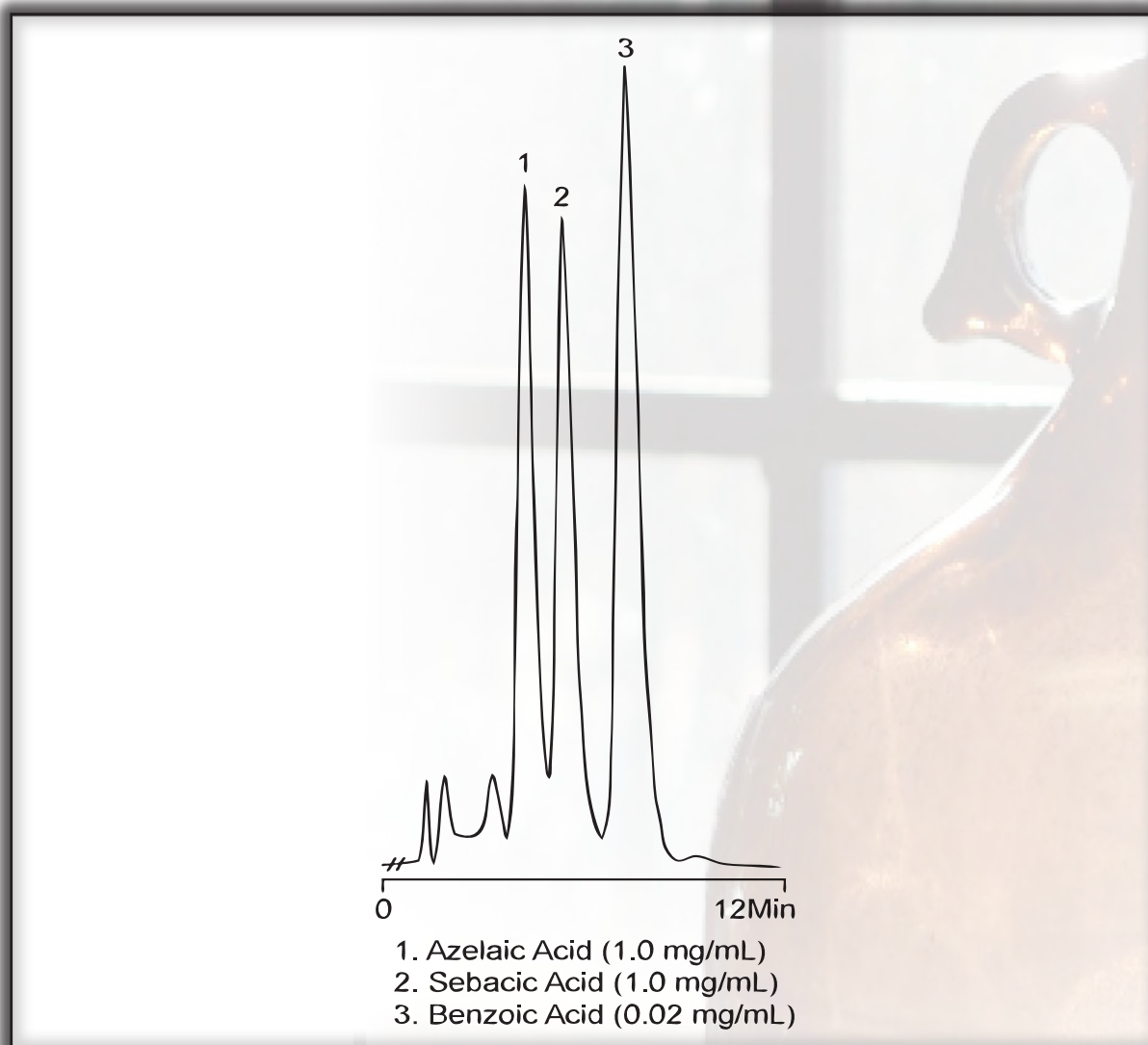


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# HPLC APPLICATION

## ORGANIC ACIDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 34.7/15.3/50 ACN/THF/H<sub>2</sub>O  
pH 3.0 w/ H<sub>3</sub>PO<sub>4</sub>  
**Flow Rate:** 2.0mL/min.  
**Injection:** 150µL  
**Temperature:** 25°C  
**Detector:** UV @210nm







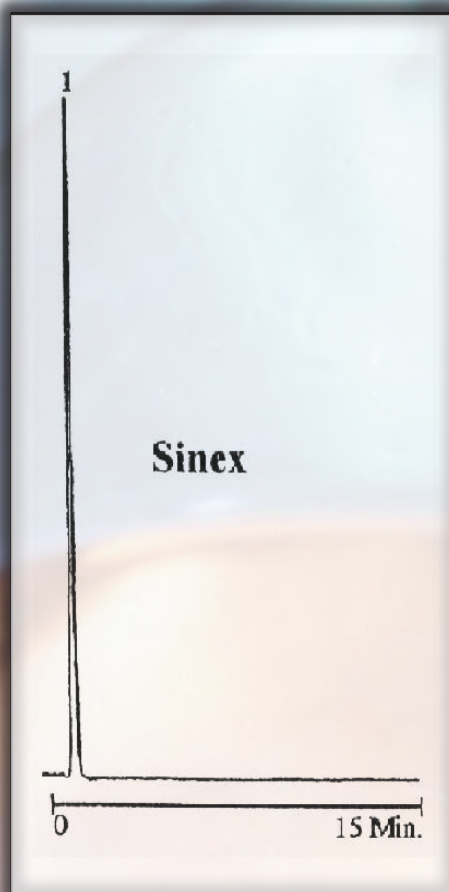
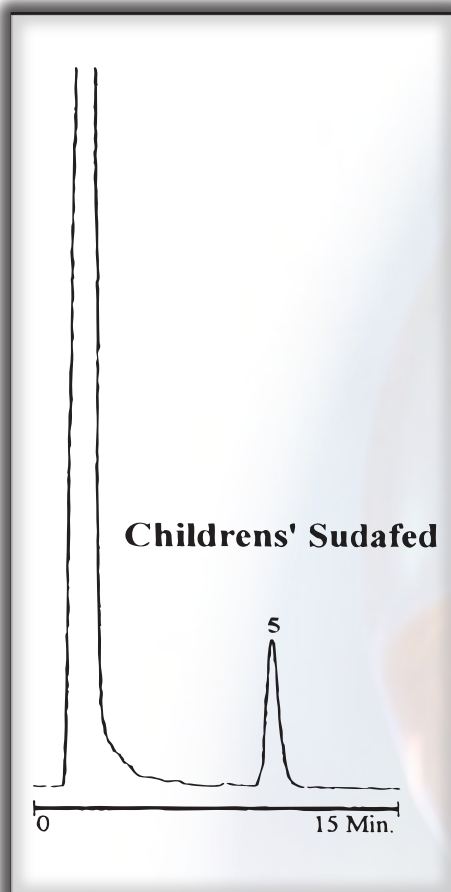
MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## VASOCONSTRICTORS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 24/74/2 ACN/0.2M NaOH/Butylamine  
**Flow Rate:** 3.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @254nm

1. Phenylephrine Hydrochloride
2. Norephedrine Hydrochloride
3. Procainamide Hydrochloride
4. Ephedrine Hydrochloride
5. Pseudoephedrine Hydrochloride



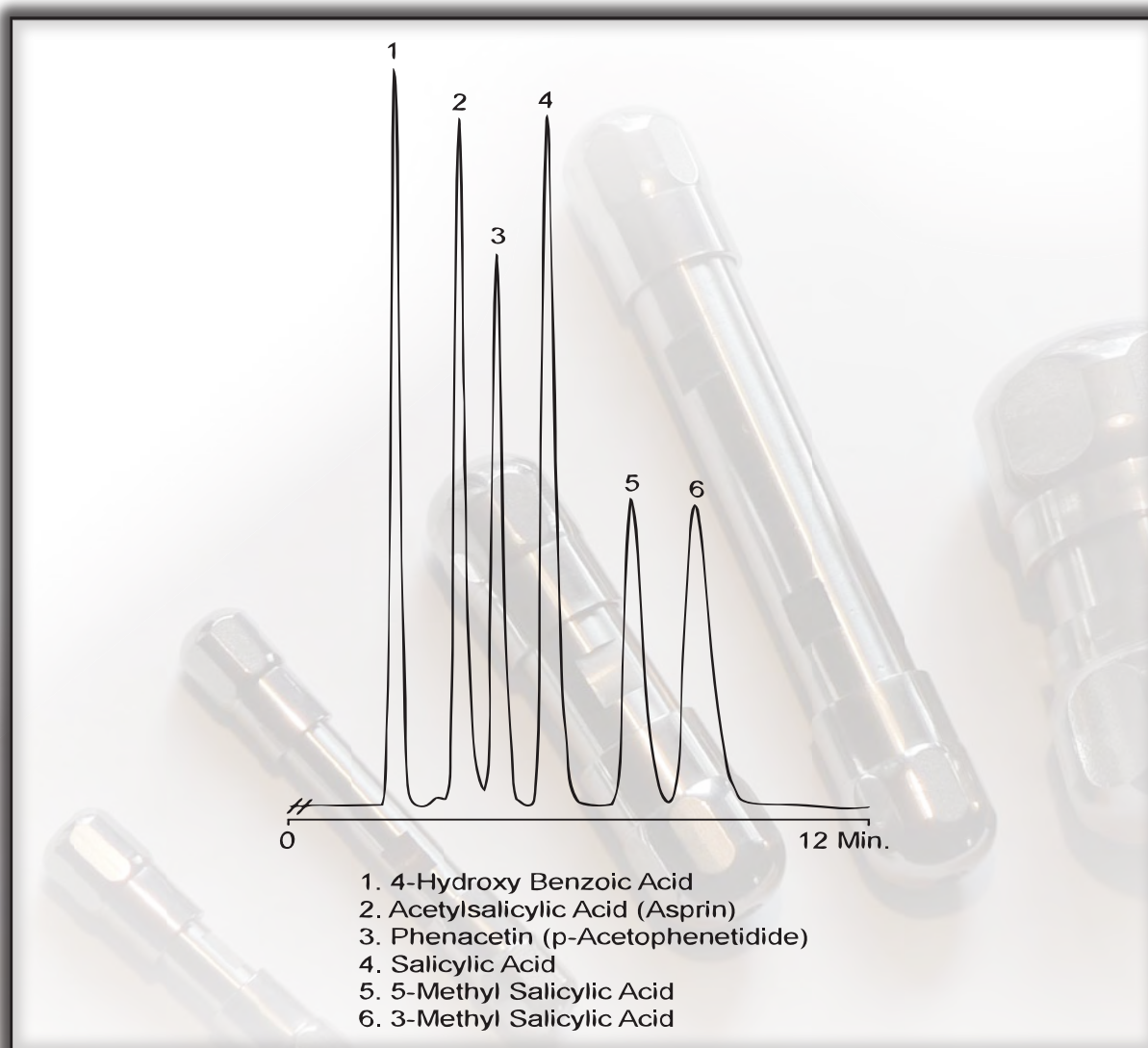


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# HPLC APPLICATION

## ASPIRIN and RELATED COMPOUNDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 50/50 ACN/H<sub>2</sub>O w/0.05% TFA  
**Flow Rate:** 3.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



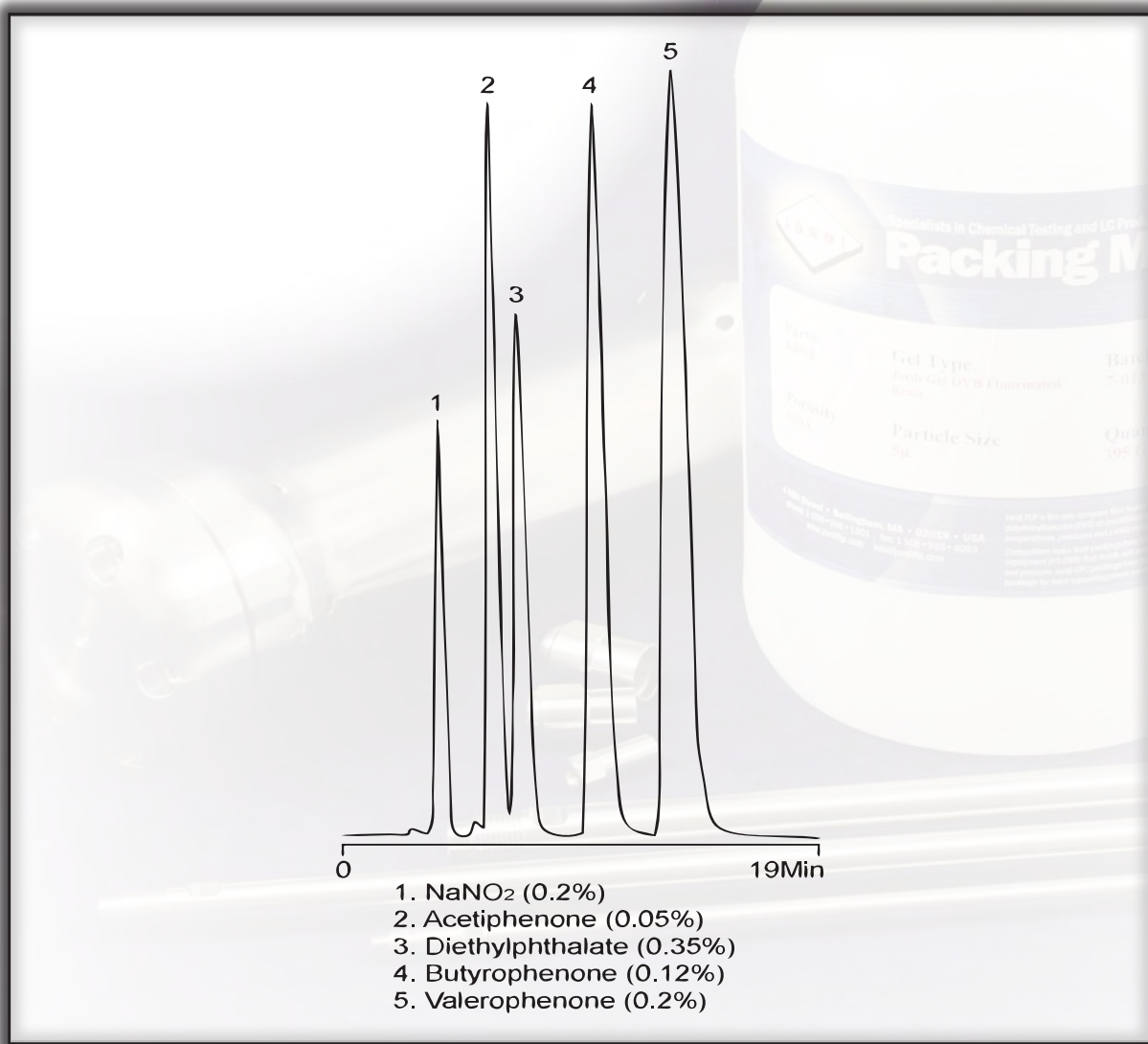


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# HPLC APPLICATION

## COLUMN TEST MIX

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 75/20/5 ACN/H<sub>2</sub>O/MeOH w/0.1%TFA  
**Flow Rate:** 2.0mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @254nm





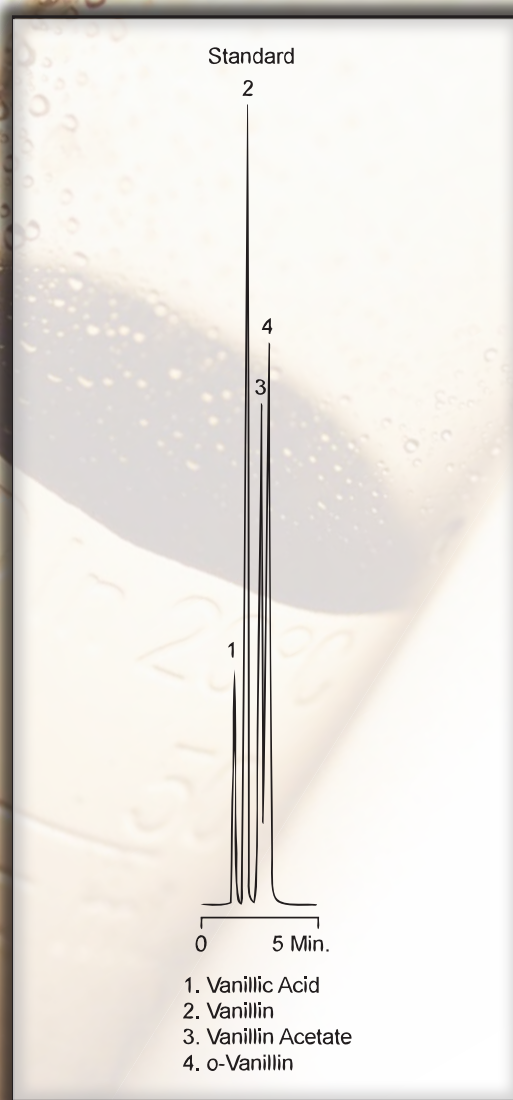
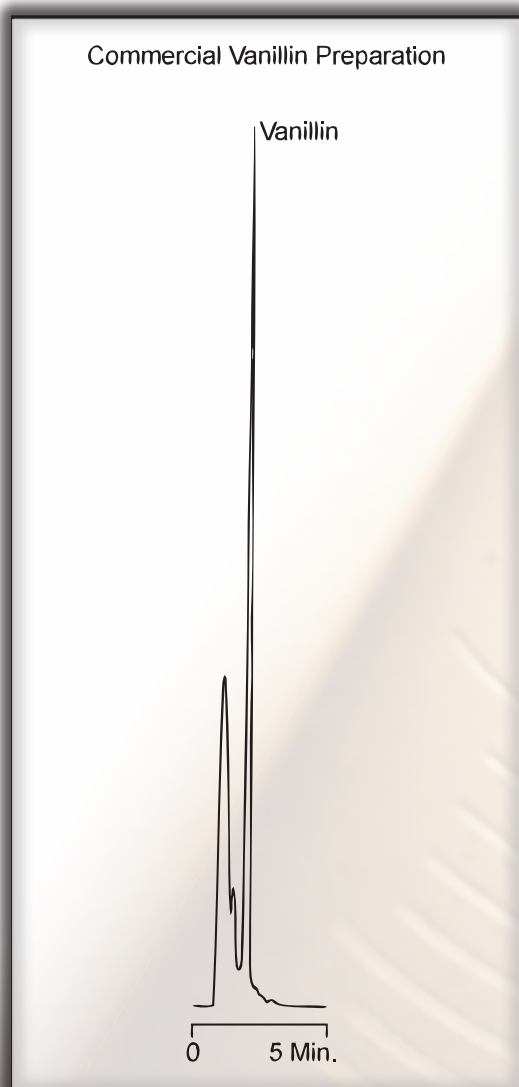


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# HPLC APPLICATION

## VANILLIN COMPOUNDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 80/20 ACN/H<sub>2</sub>O w/0.1%TFA  
**Flow Rate:** 3.0mL/min.  
**Injection:** 10µL  
**Temperature:** 25°C  
**Detector:** UV @235nm



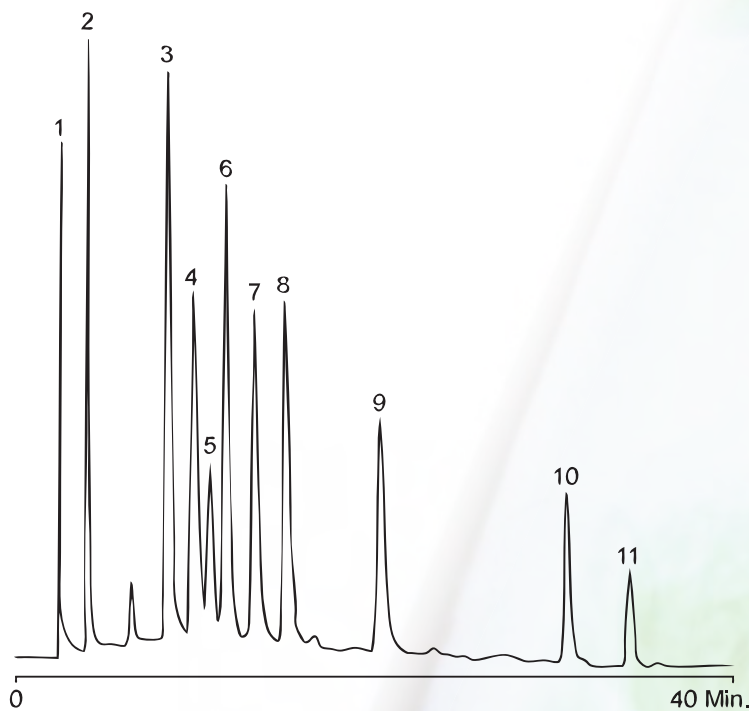


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## HINDERED PHENOLIC ANTIOXIDANTS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** ACN/H<sub>2</sub>O 78/22 to 100/0 in 30 Min. (Linear)  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** 80°C  
**Detector:** UV @214nm



1. Hydroquinone monomethyl ether
2. Hydroquinone monobenzyl ether
3. 2, 5-Di-t-butylhydroquinone
4. Thiobis-(di-sec-amyphenol)
5. Tris (2-methyl-4-hydroxy-5-t-butyl phenol butane)
6. Thiobisphenol
7. 2, 2'-methylene bis (6-t-butyl-4-methyl phenol)
8. 2, 2'-methylene bis (6-t-butyl-4-ethyl phenol)
9. 4, 4'-methylene bis (2, 6-di-t-butyl phenol)
10. Pentaerythrityl tetrakis (3, 5-di-t-butyl-4-hydroxy cinnamate)
11. Octadecyl (3, 5-di-t-butyl-4-hydroxy cinnamate)

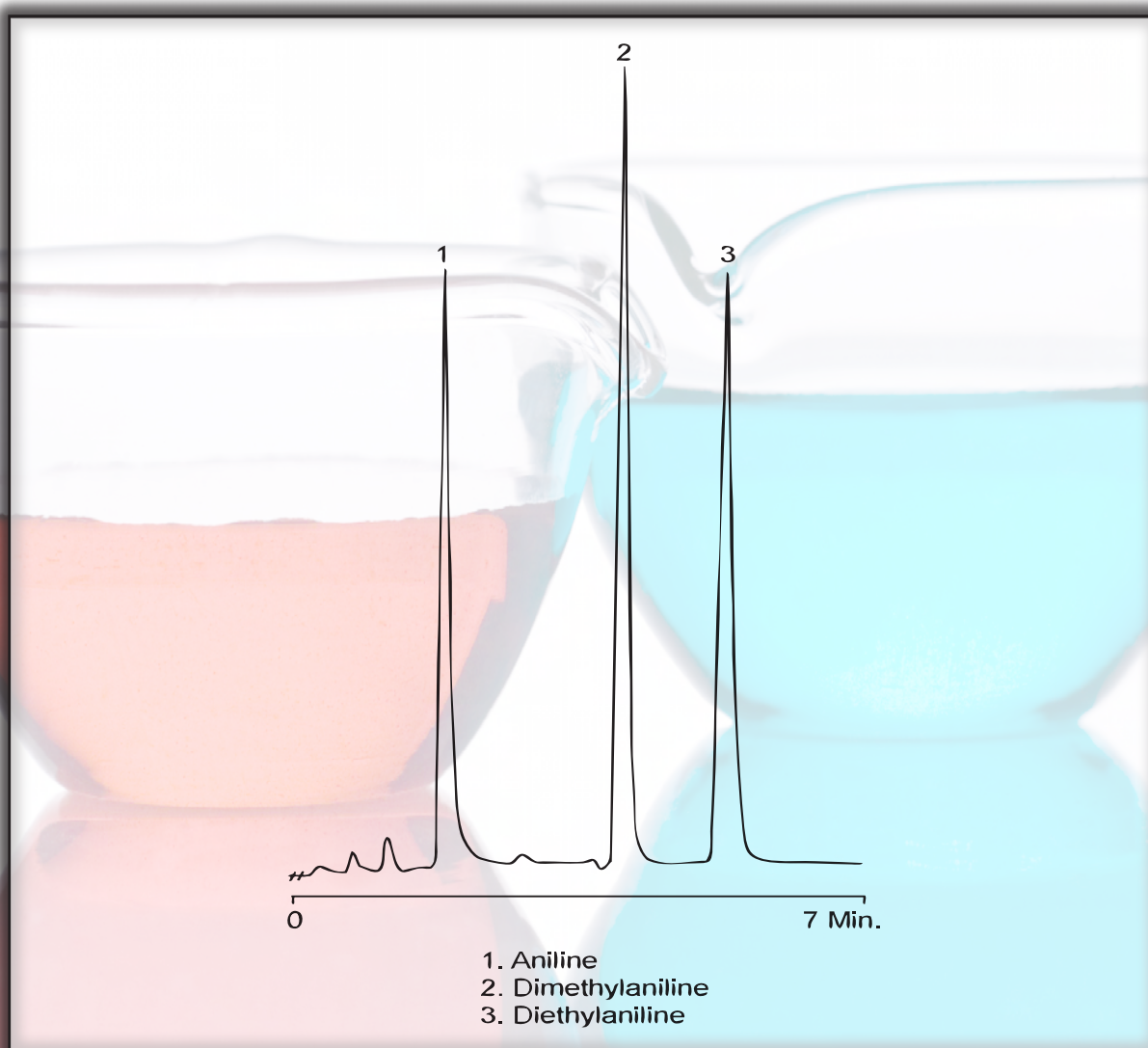


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## ANILINE, DIMETHYLANILINE AND DIETHYLANILINE

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 78/22 ACN/H<sub>2</sub>O  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @254nm 2.0 AUFS





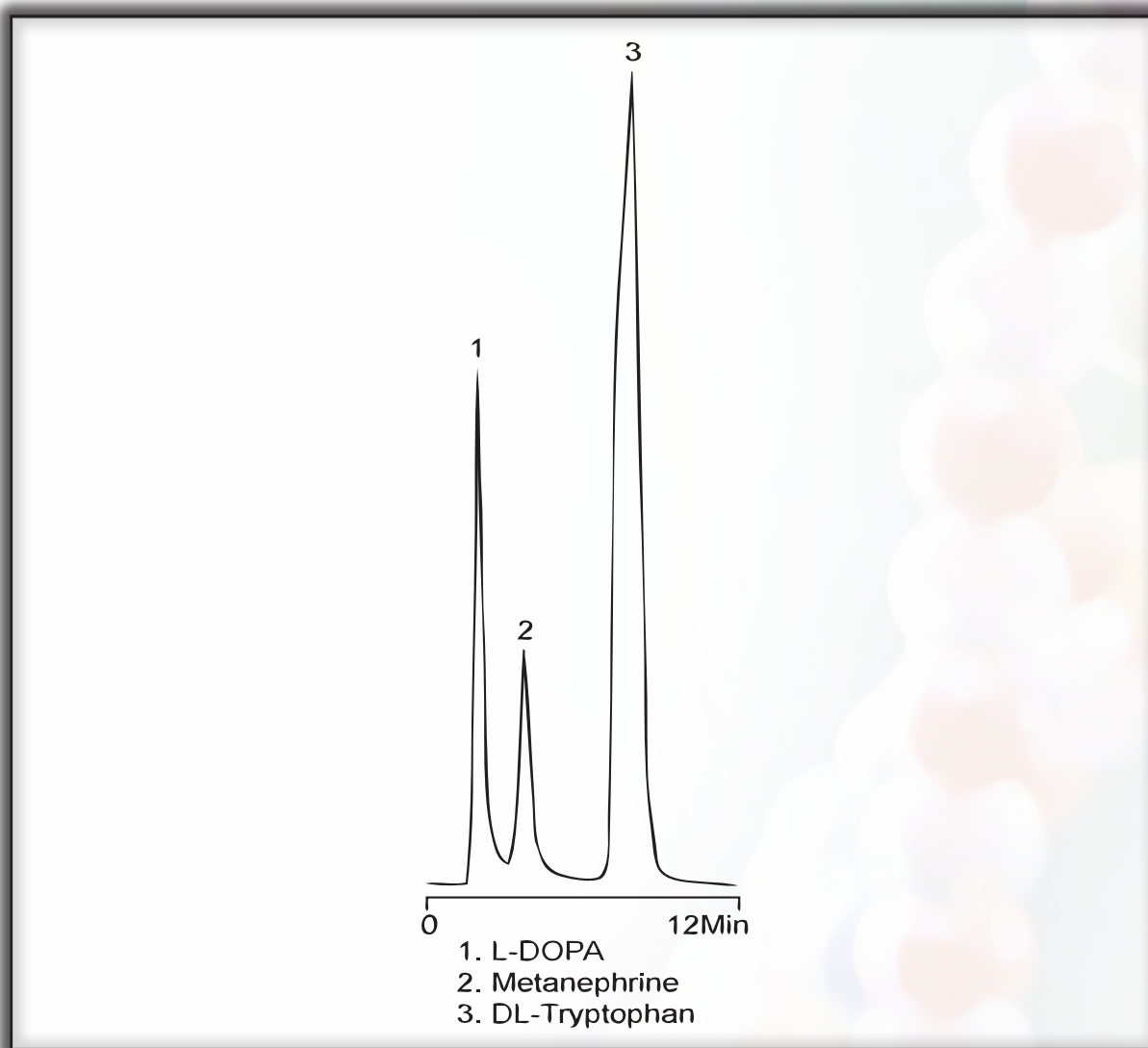


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## CATECHOLAMINES

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 75/24/1 0.2M NaOH/ACN/Butylamine  
**Flow Rate:** 2.0mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @280nm



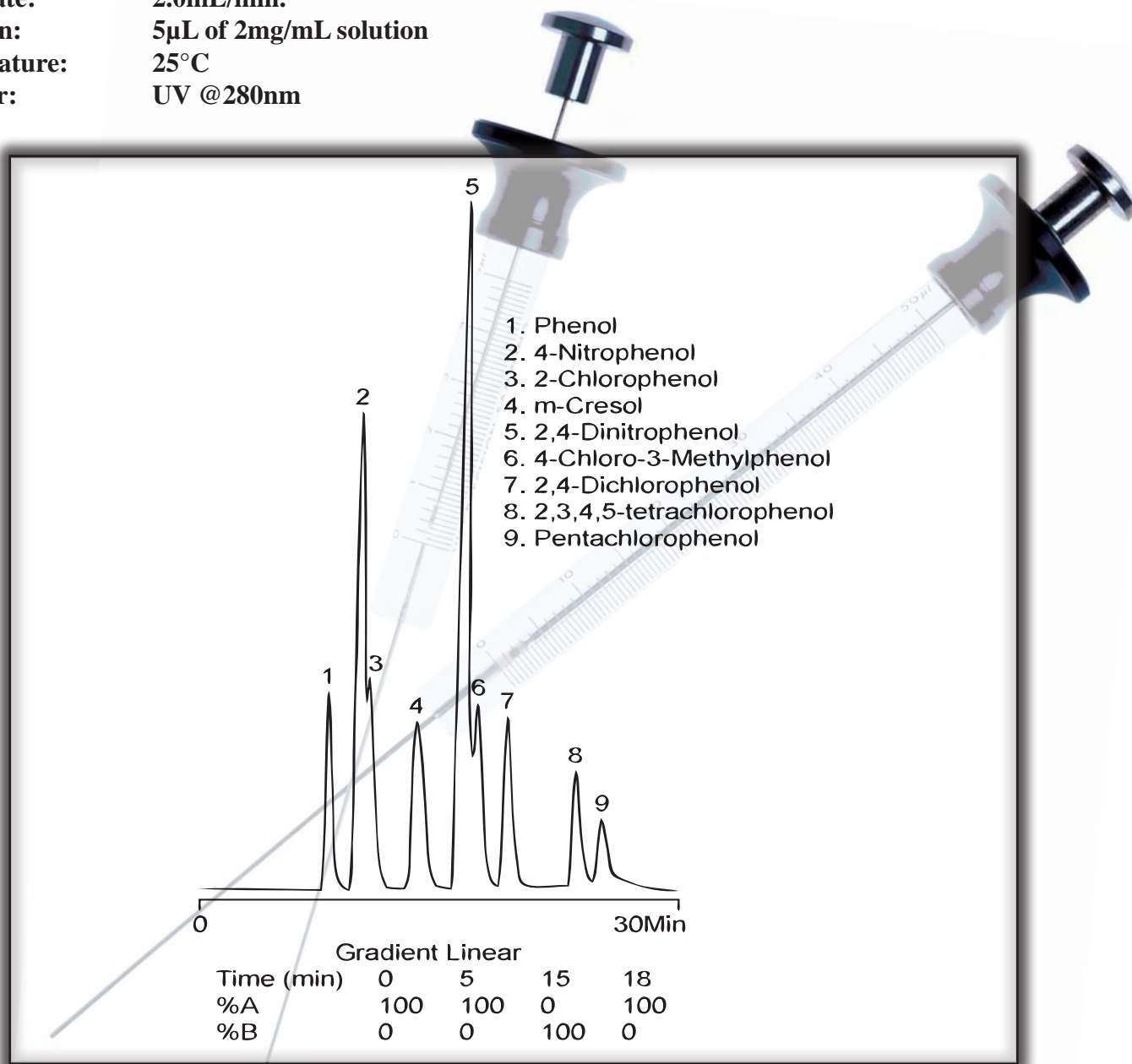


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## PHENOLS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent A:** 45/45/10 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Solvent B:** 8/73/19 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Flow Rate:** 2.0mL/min.  
**Injection:** 5µL of 2mg/mL solution  
**Temperature:** 25°C  
**Detector:** UV @280nm



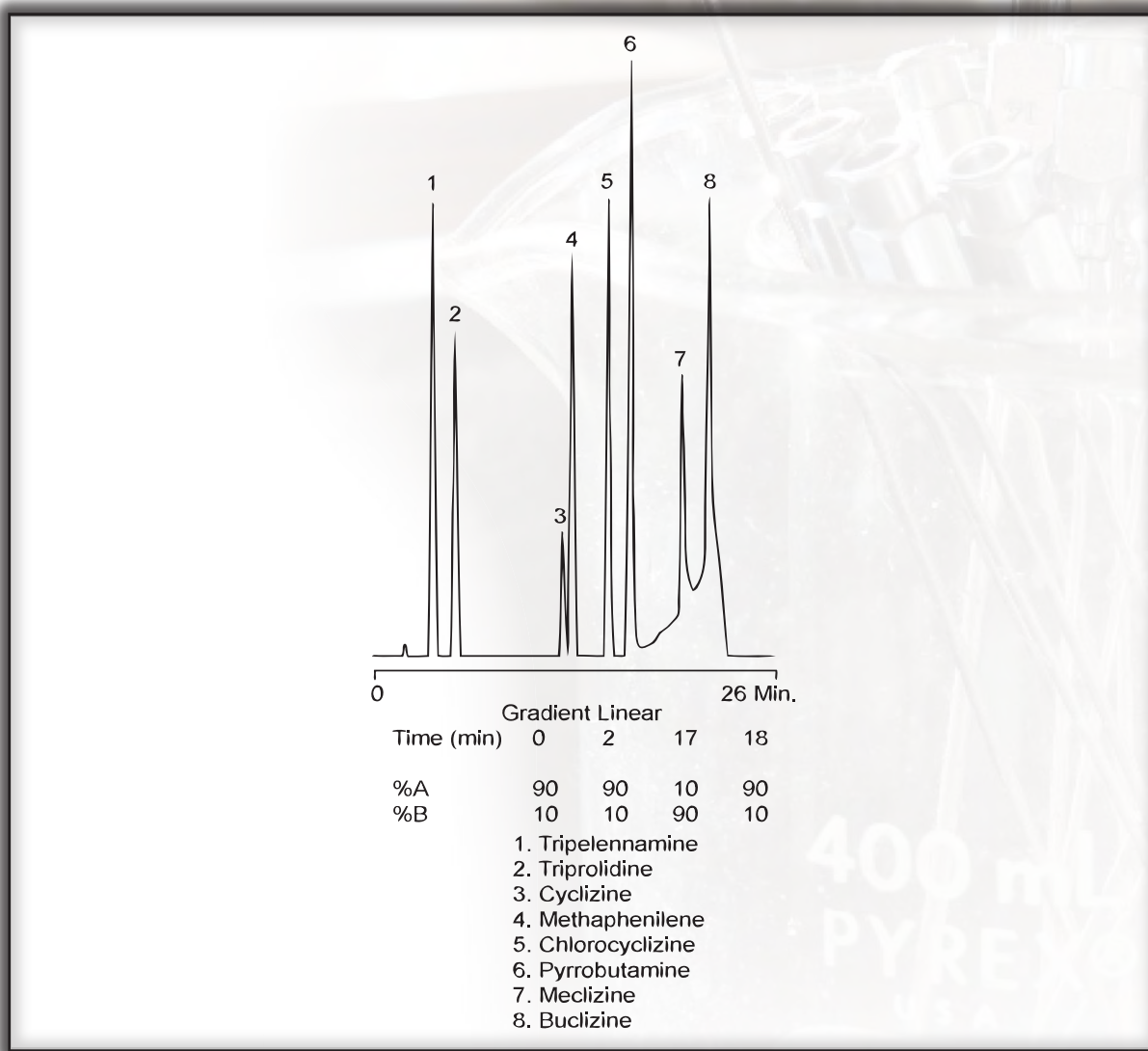


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## ANTI-HISTAMINES

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent A:** 70/20/10 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Solvent B:** 8/73/19 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Flow Rate:** 2.0mL/min.  
**Injection:** 50µL of 0.13mg/mL Solution  
**Temperature:** 25°C  
**Detector:** UV @235nm





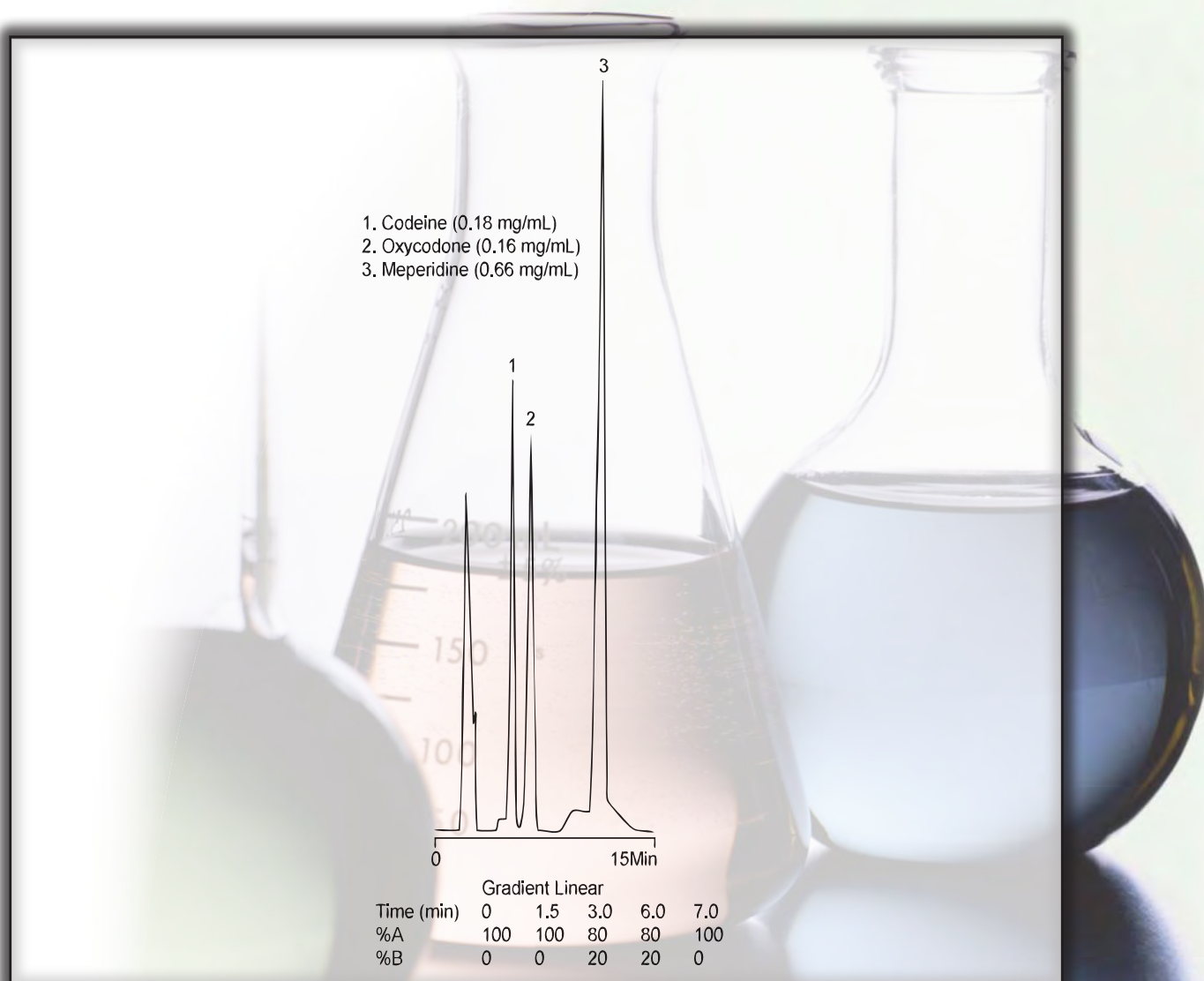


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## ALKALOID DRUGS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent A:** 70/20/10 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Solvent B:** 10/80/10 H<sub>2</sub>O/ACN/MeOH w/0.1% TFA  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @230nm



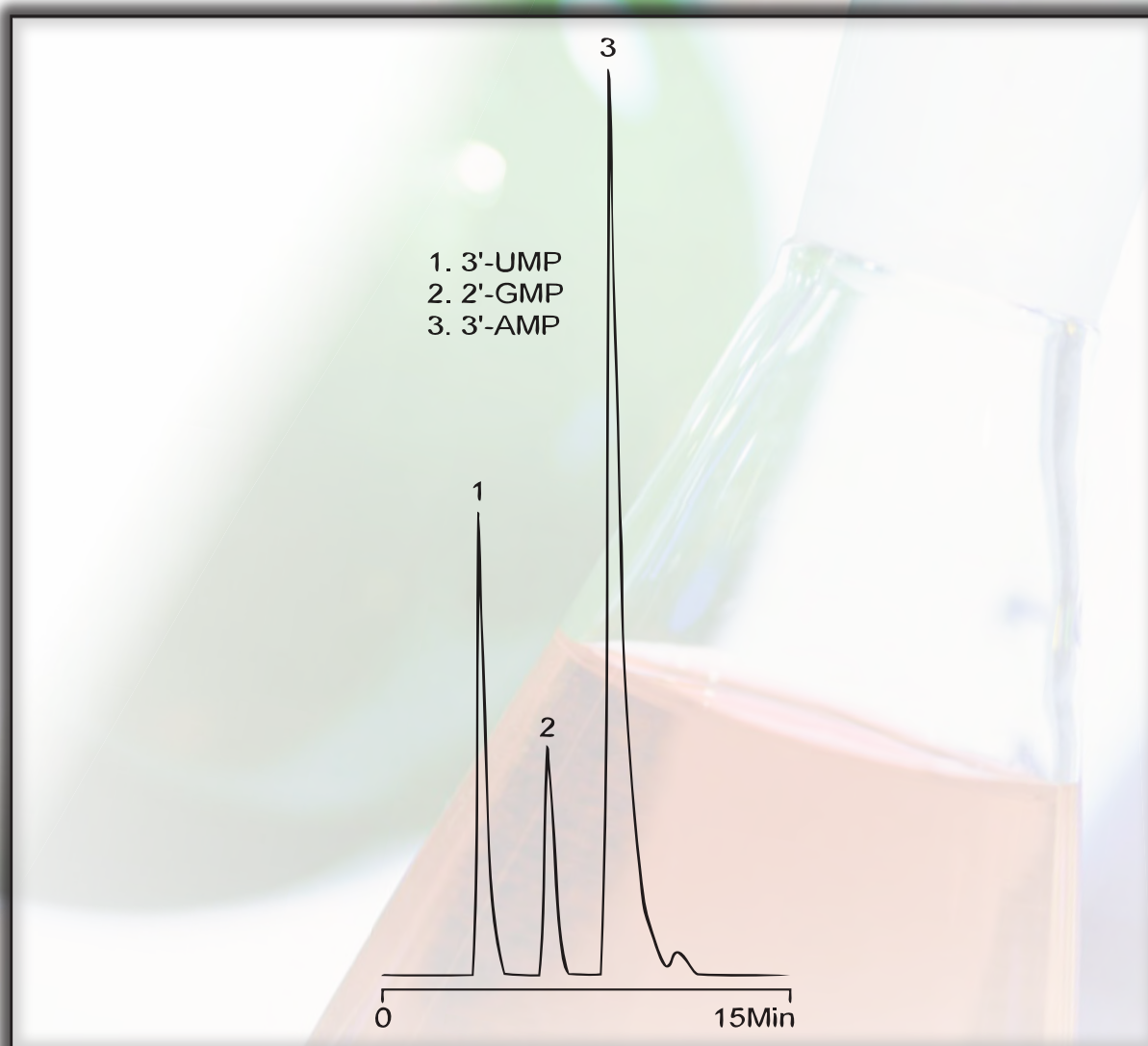


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# HPLC APPLICATION

## NUCLEOTIDES

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 97/1/2 0.01M NaOAC/ACN/MeOH  
**Flow Rate:** 2.0mL/min.  
**Injection:** 15µL  
**Temperature:** 25°C  
**Detector:** UV @254nm



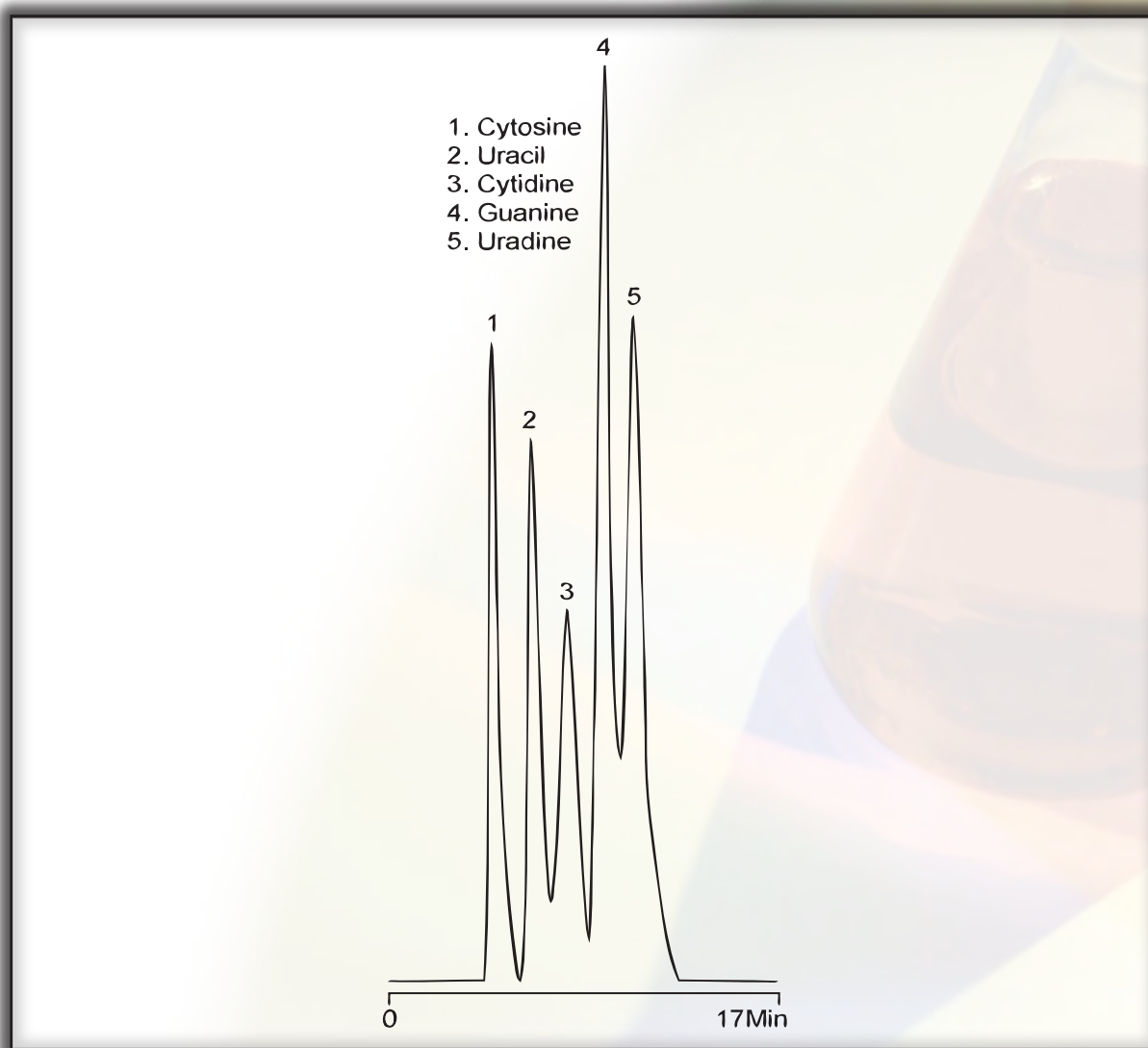


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# HPLC APPLICATION

## NUCLEOSIDES and BASES

**Part Number:** 16010  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 10mm ID  
**Solvent:** 97/1/2 0.01M NaOAC/ACN/MeOH  
**Flow Rate:** 2.0mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @254nm





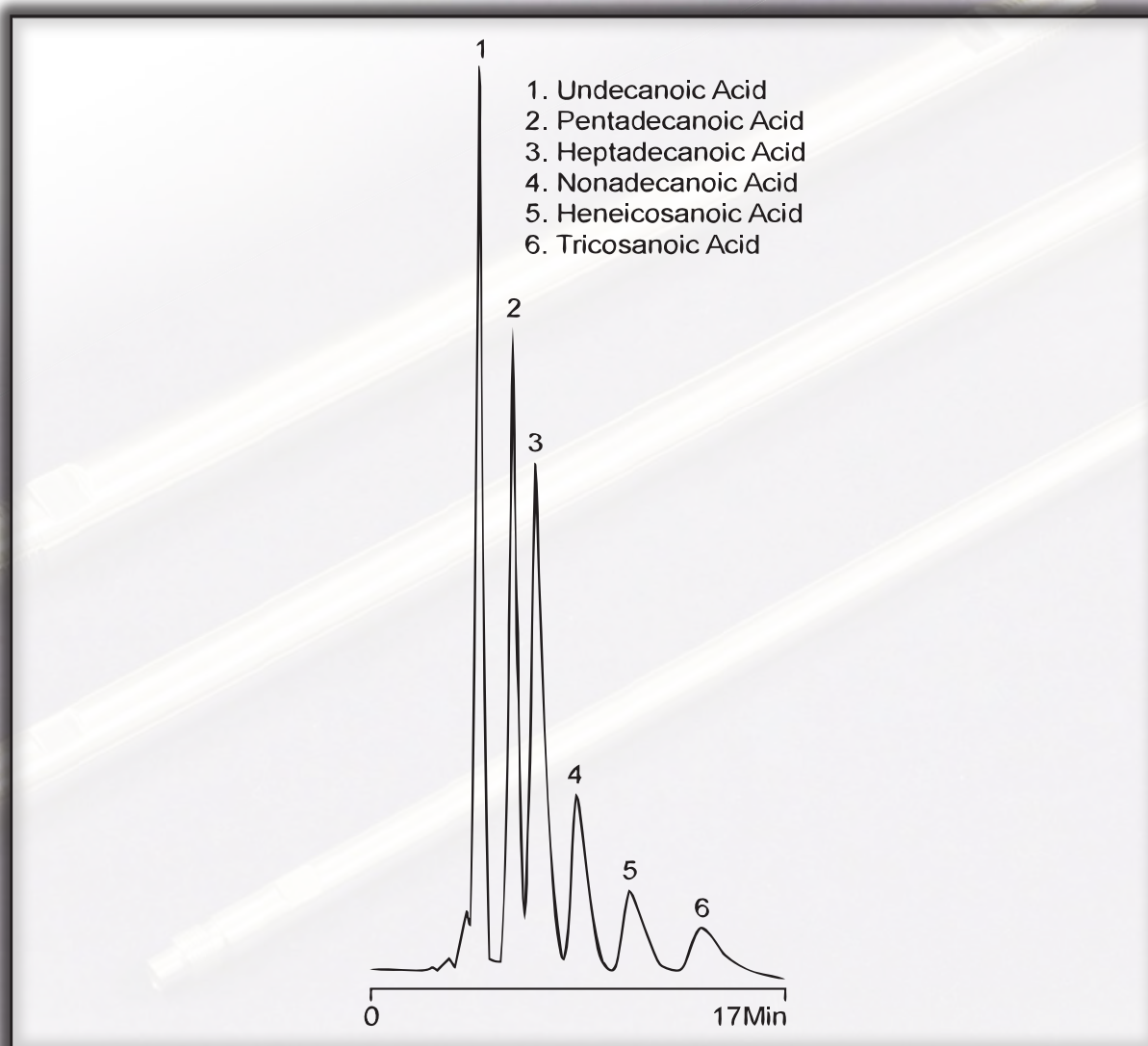


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# HPLC APPLICATION

## FATTY ACIDS (Odd Carbon)

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 95/5 MeOH/THF  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @210nm, 0.36 AUFS



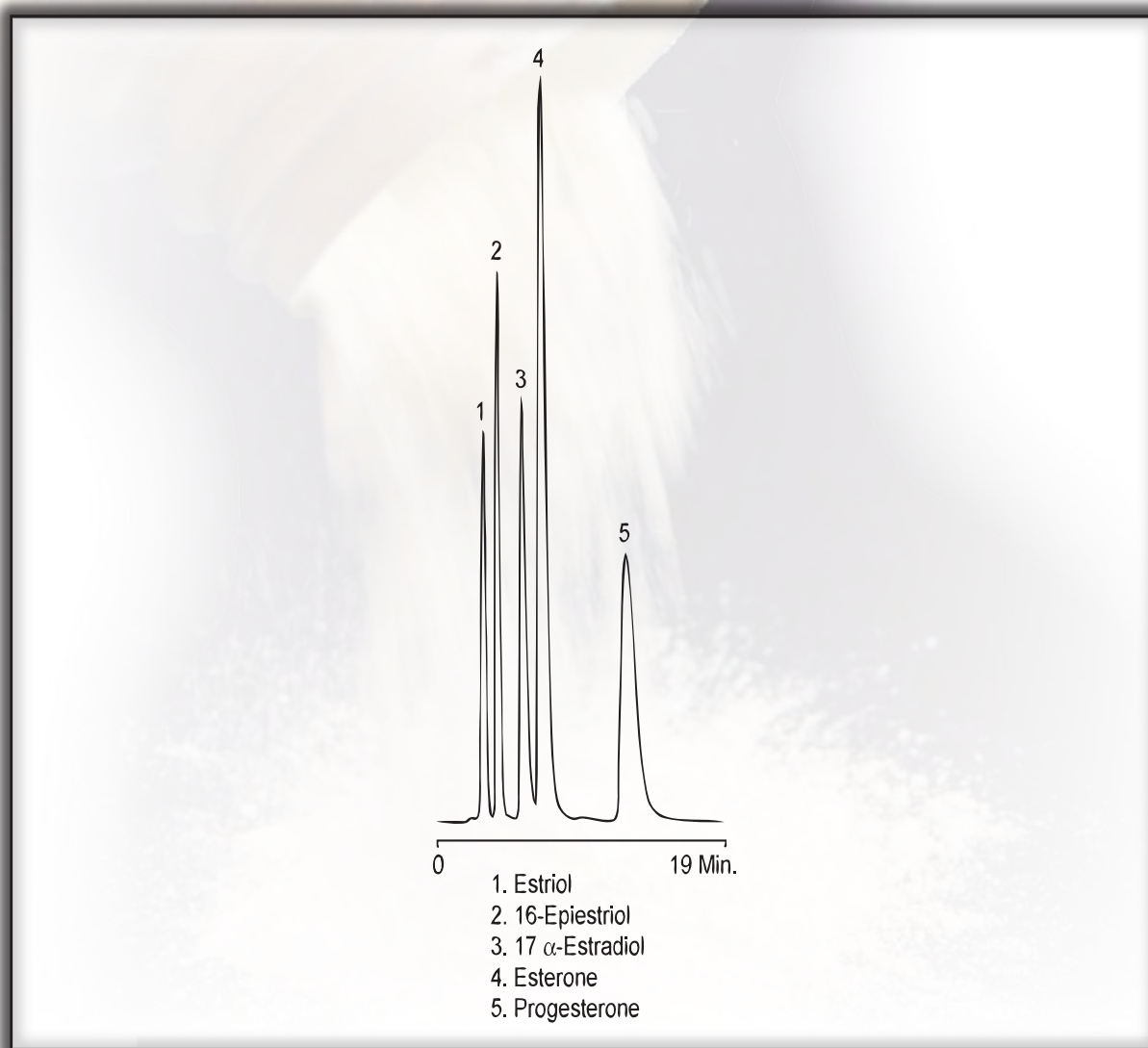


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# HPLC APPLICATION

## STEROIDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 85/15 ACN/H<sub>2</sub>O  
**Flow Rate:** 2.0mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @230nm, 0.37 AUFS



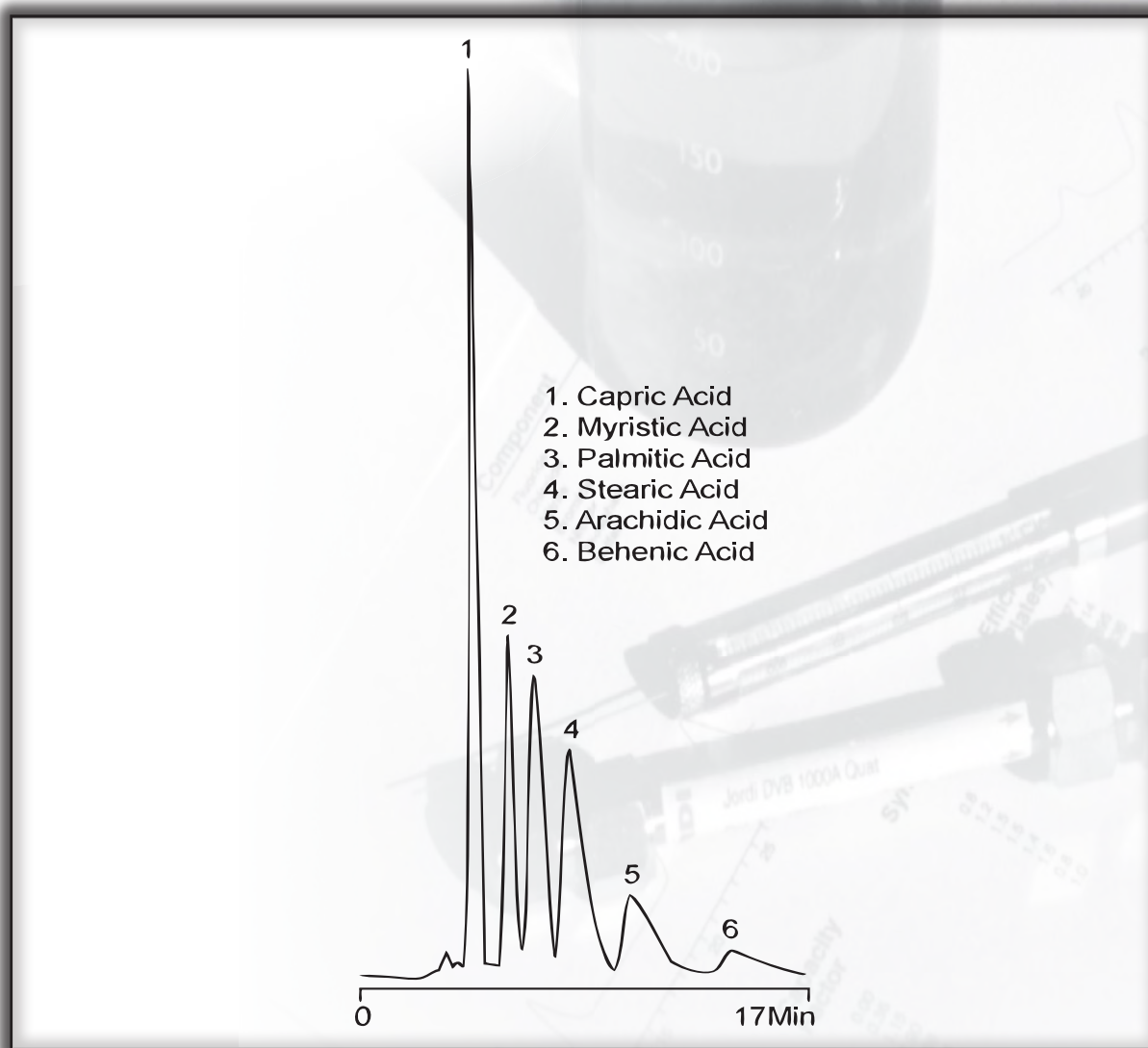


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## FATTY ACIDS (Even Carbon)

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 95/5 MeOH/THF  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** 25°C  
**Detector:** UV @210nm, 0.52 AUFS





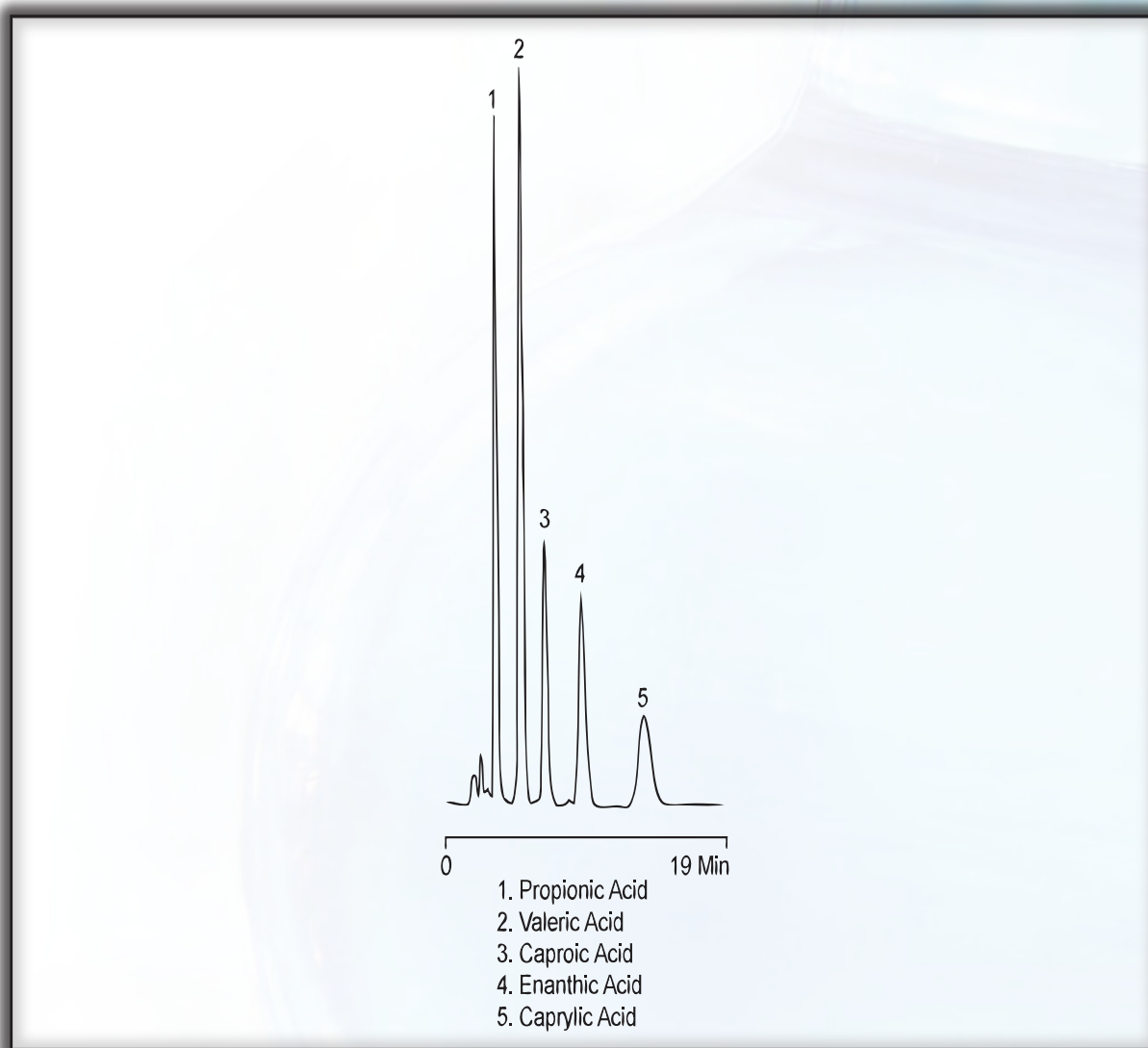


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## SHORT CHAIN FATTY ACIDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 50/50 /1 ACN/H<sub>2</sub>O/H<sub>3</sub>PO<sub>4</sub>  
**Flow Rate:** 2.0mL/min.  
**Injection:** 250µL  
**Temperature:** 25°C  
**Detector:** UV @210nm, 0.6 AUFS



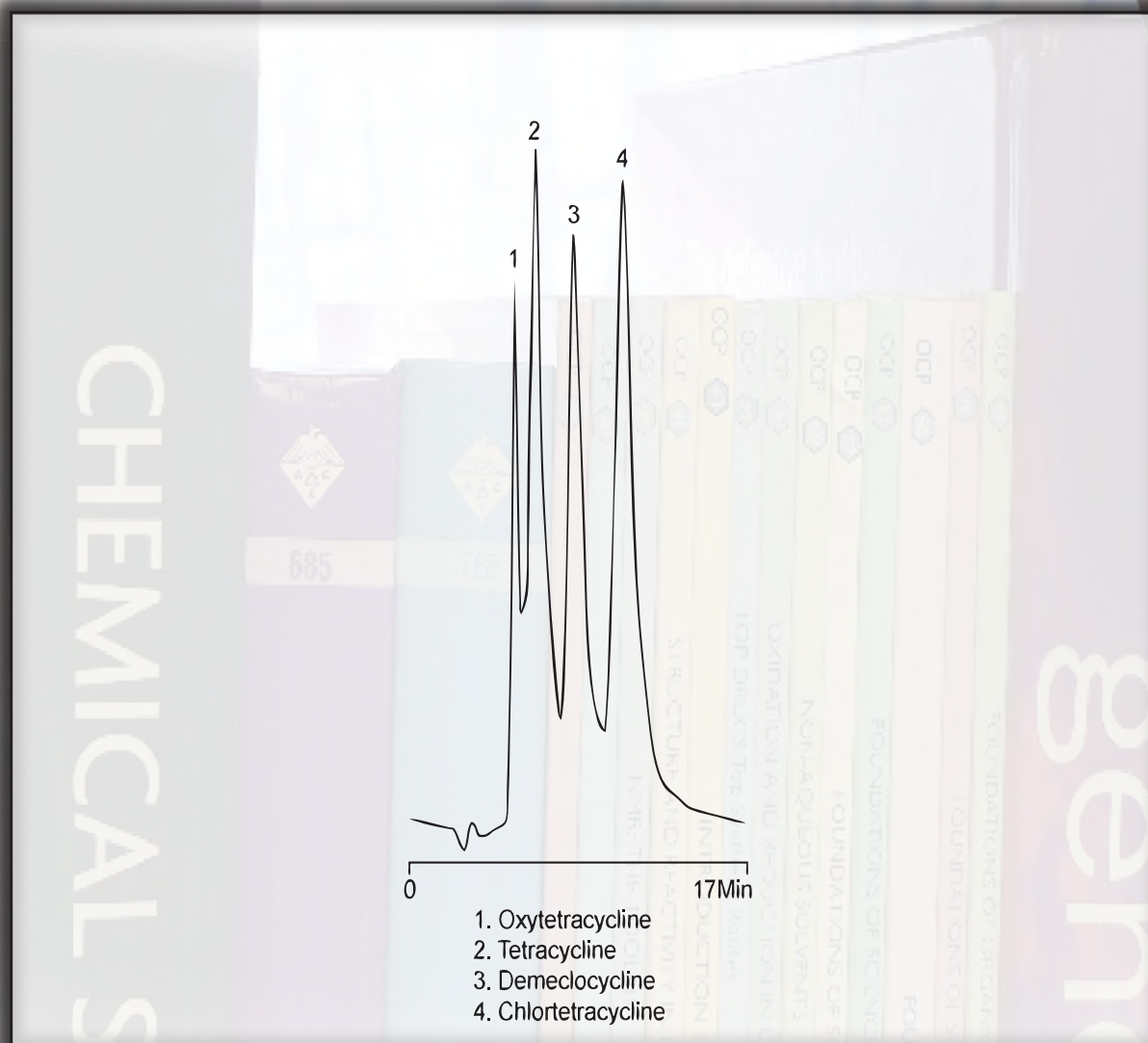


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## TETRACYCLINE and RELATED COMPOUNDS

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 30/70 ACN/H<sub>2</sub>O w/0.1% TFA  
**Flow Rate:** 1.5mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @300nm, 0.45 AUFS



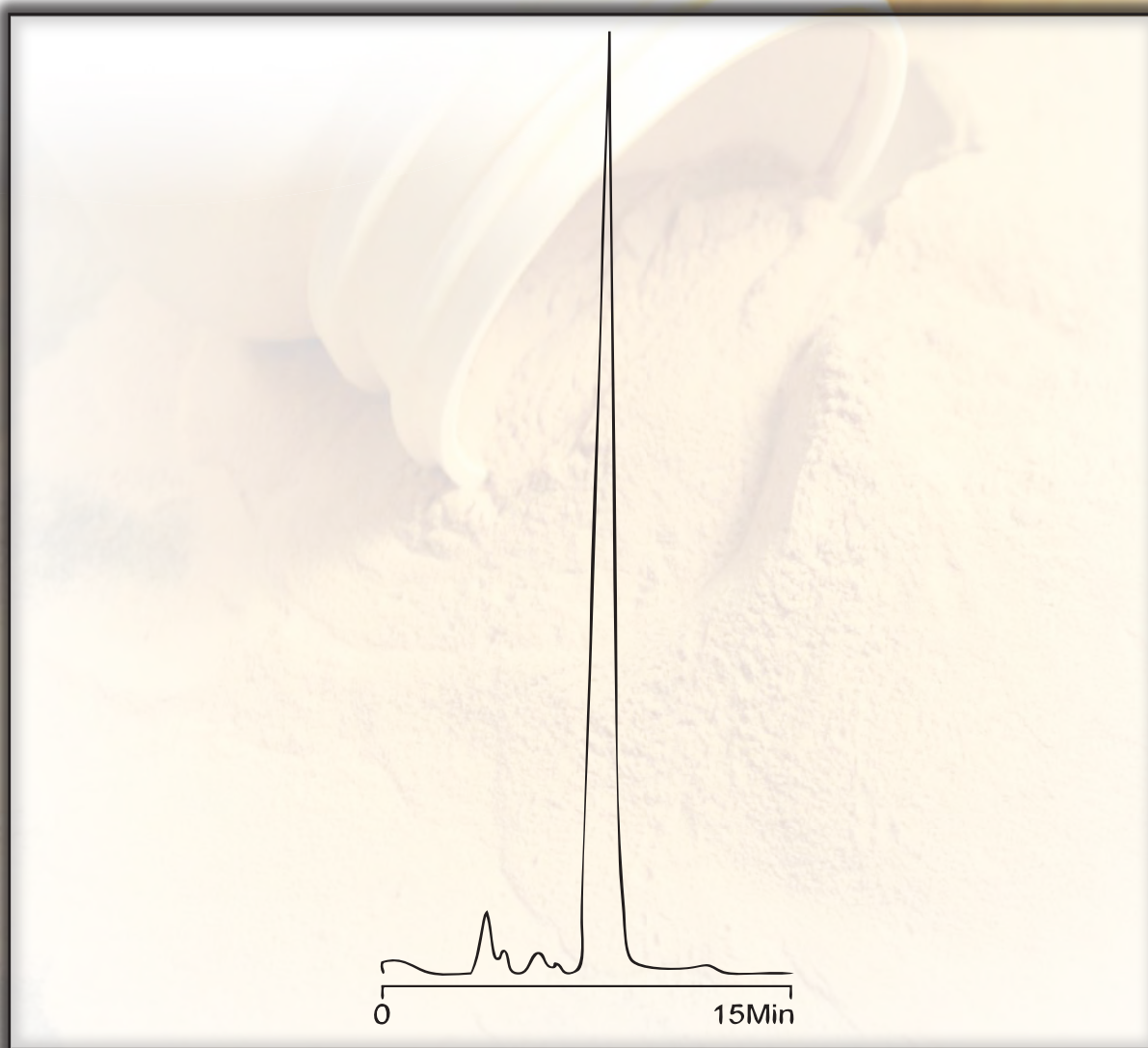


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# HPLC APPLICATION

## 2,4,6-TRIS (DIMETHYLAMINOETHYL) PHENOL STANDARD (Chem Service)

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 80/20 ACN/H<sub>2</sub>O w/0.02M NaOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 25°C  
**Detector:** UV @220nm, 1.16 AUFS





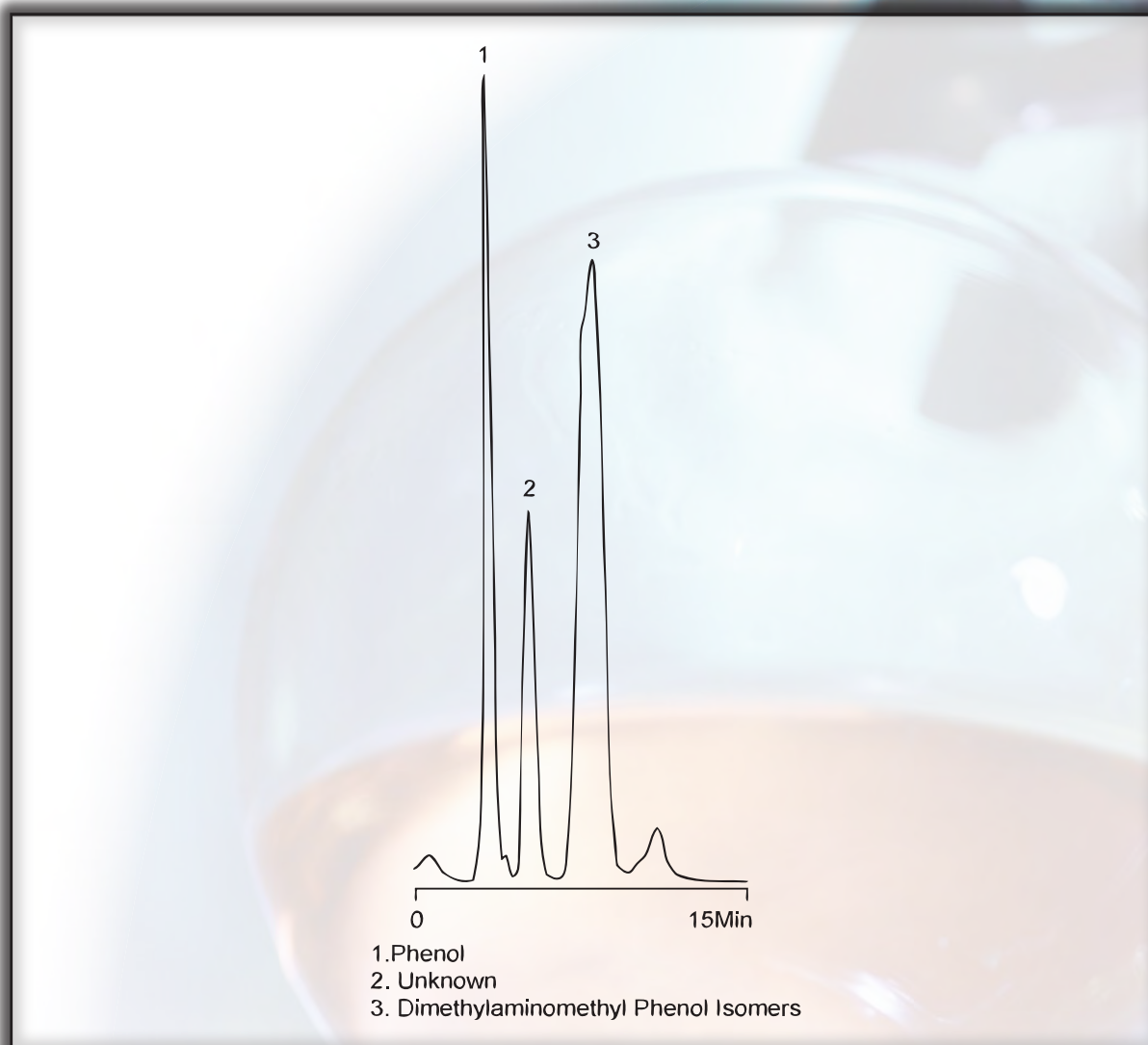


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# HPLC APPLICATION

## DIMETHYLAMINOMETHYL PHENOL STANDARD (Chem Service)

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 80/20 ACN/0.2M NaOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Temperature:** 25°C  
**Detector:** UV @220nm 2.0 AUFS



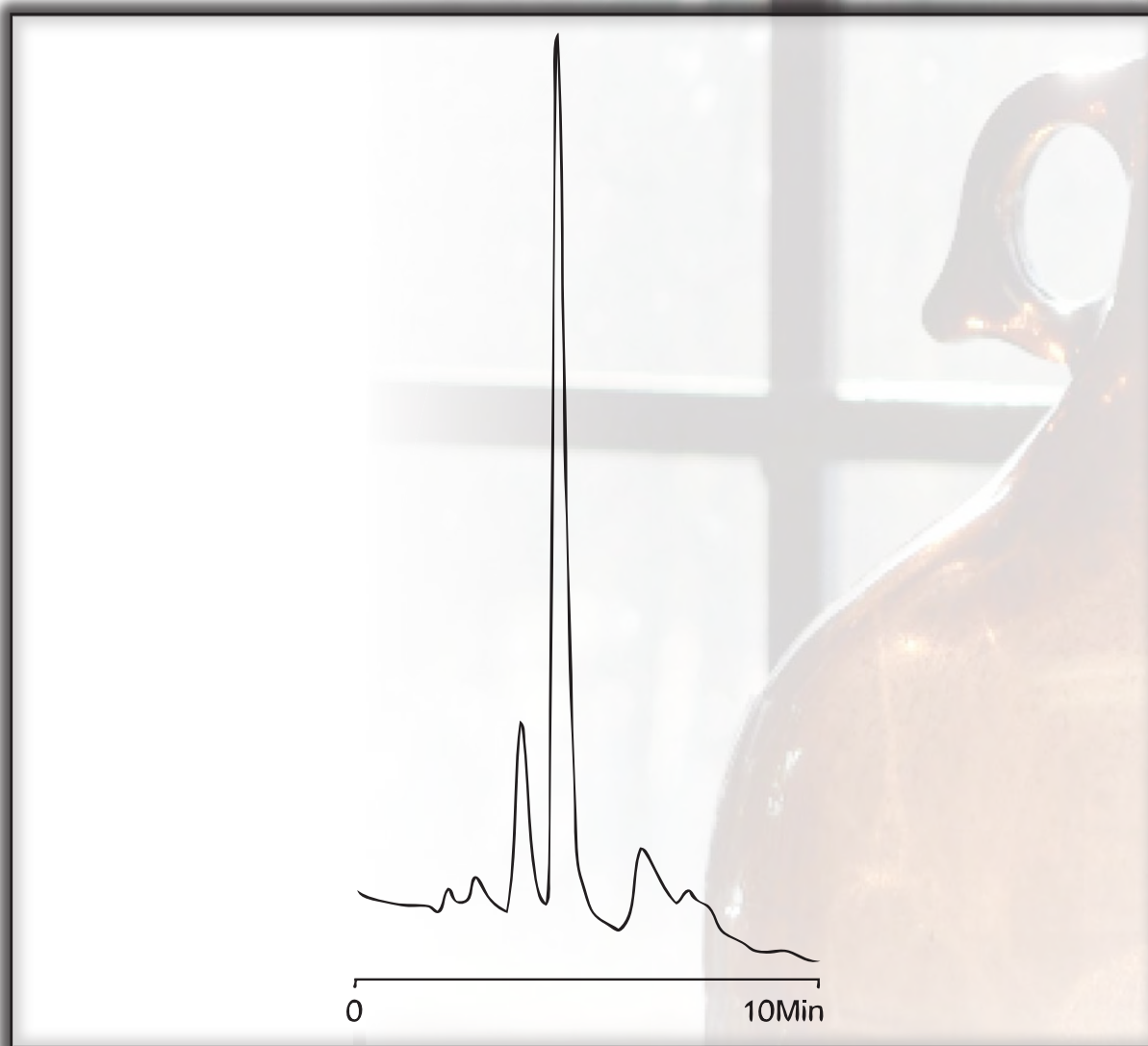


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

TANNIC ACID  
(Aldrich Chemical Co)

**Part Number:** 16002  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 10cm X 10mm ID  
**Solvent:** 80/10/10 H<sub>2</sub>O/ACN/MeOH  
pH=2.5 w/H<sub>3</sub>PO<sub>4</sub>  
**Flow Rate:** 3.0mL/min.  
**Injection:** 40µL  
**Temperature:** 25°C  
**Detector:** UV @210nm 0.2 AUFS



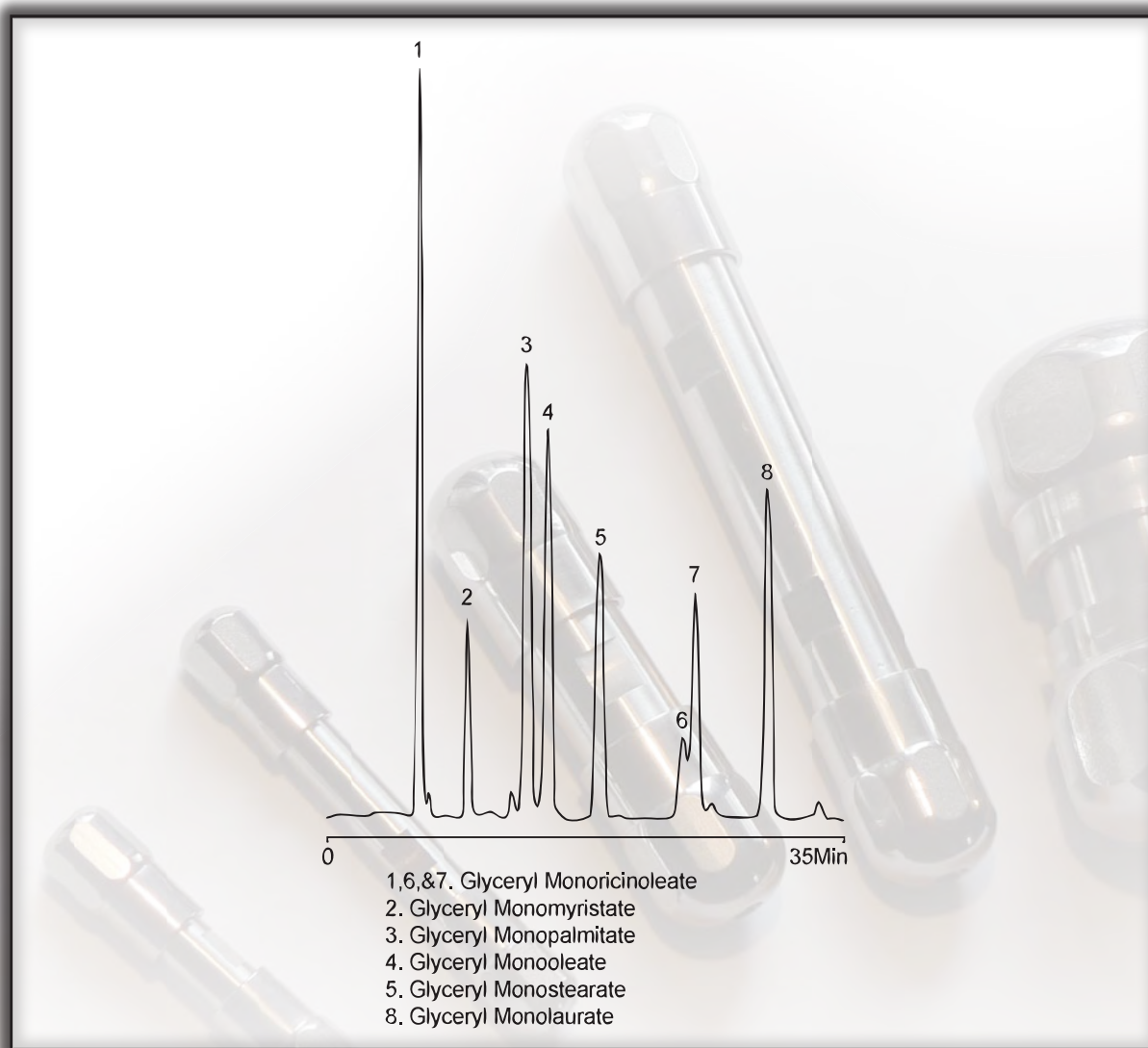


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## GLYCEROL MONOESTERS

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 78/22 to 100/0 ACN/H<sub>2</sub>O, 30 min  
**Flow Rate:** 1.0mL/min.  
**Injection:** 30µL of 1.0mg/mL  
**Temperature:** 80°C  
**Detector:** Evaporative Light Scattering





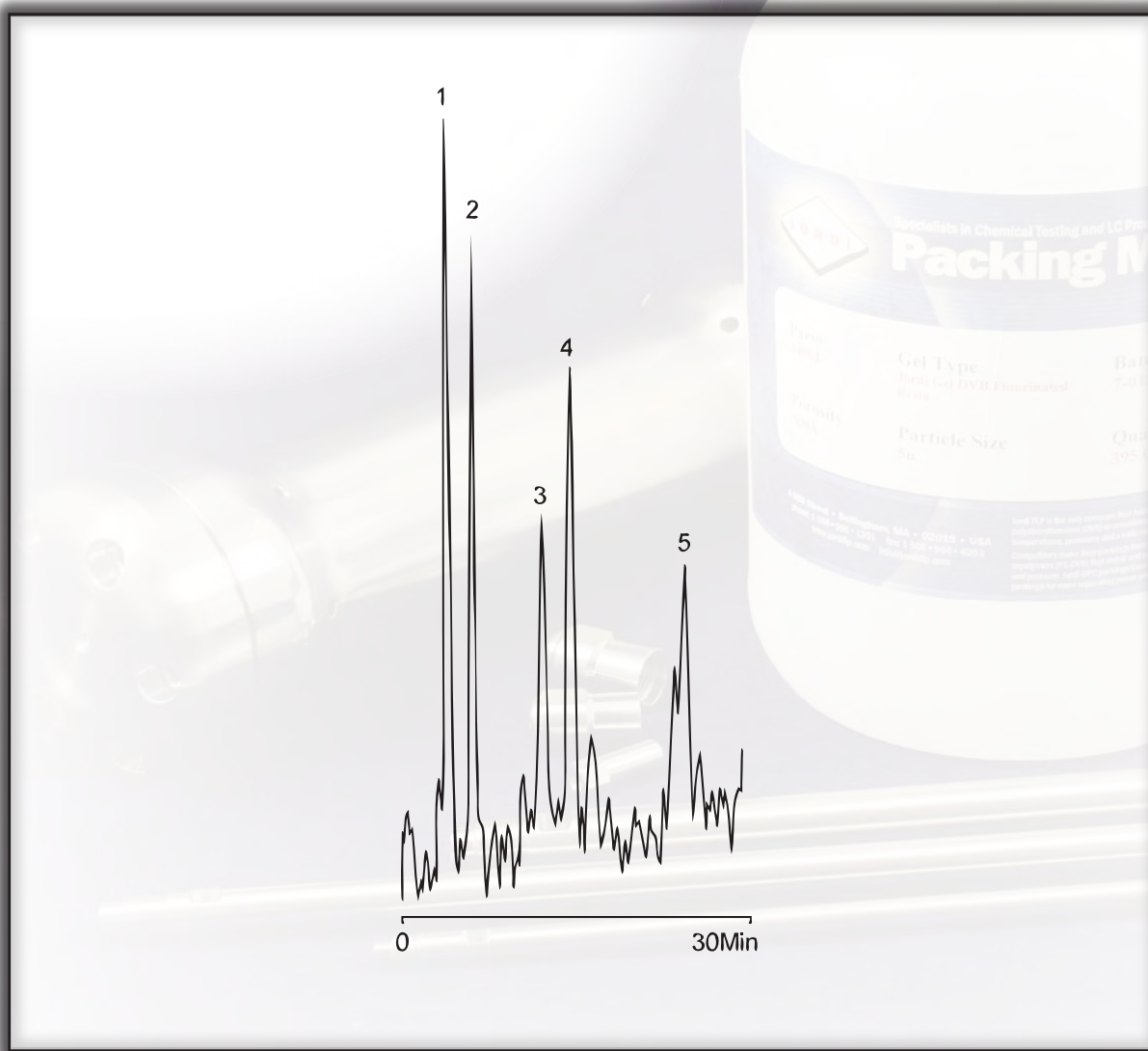


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## GLYCEROL MONOESTERS

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 78/22 to 100/0 ACN/H<sub>2</sub>O, 30min  
**Flow Rate:** 1.0mL/min.  
**Injection:** 30µL of 1.0mg/mL  
**Temperature:** 80°C  
**Detector:** UV @200nm 0.2AUFS



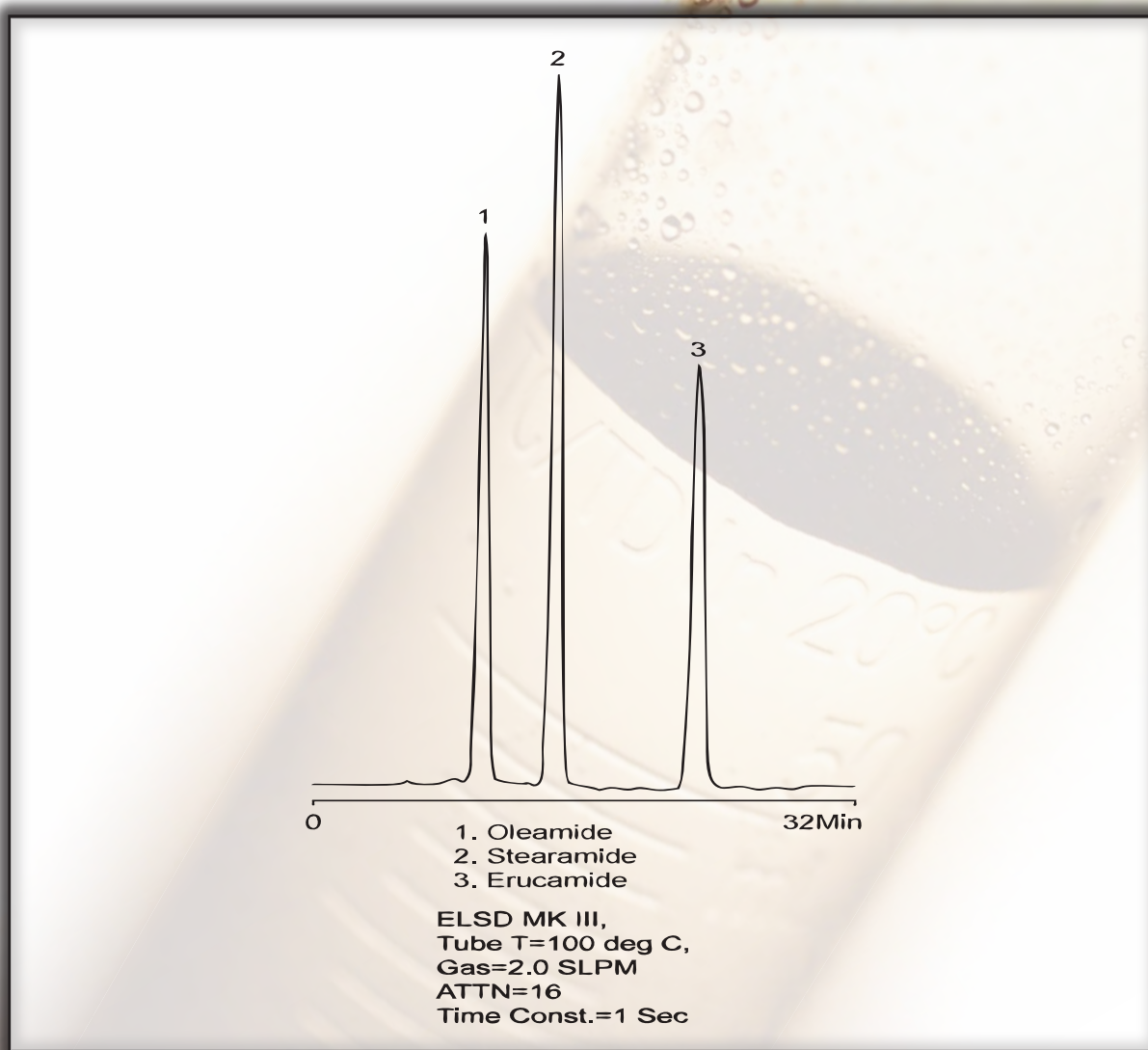


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# HPLC APPLICATION

## SLIP AGENTS

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 78/22 to 100/0 ACN/H<sub>2</sub>O 30 min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 50µL of 1.0, 0.5, 0.25 mg/mL  
**Temperature:** 80°C  
**Detector:** Evaporative Light Scattering,



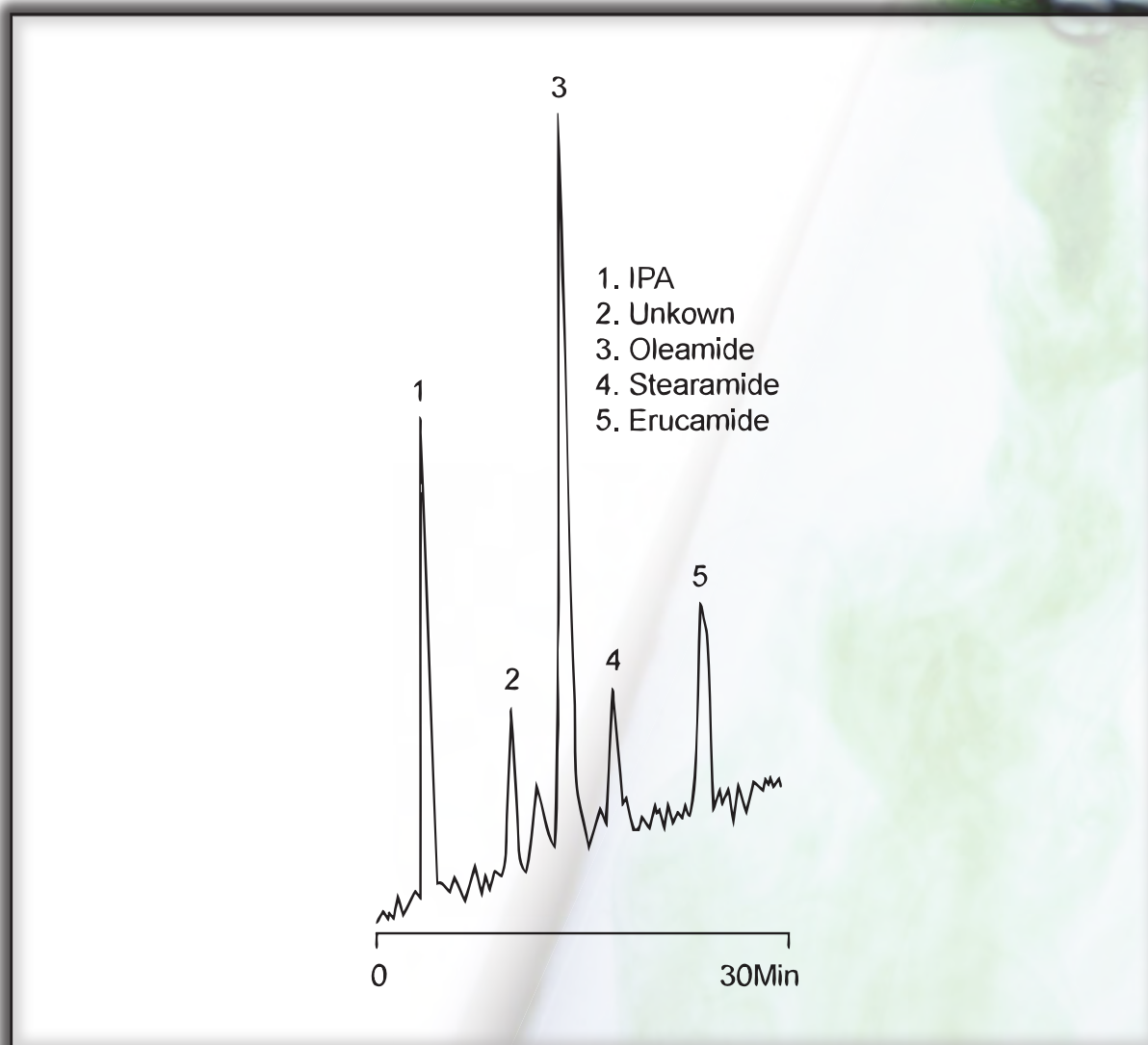


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## SLIP AGENTS

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 78/22 to 100/0 ACN/H<sub>2</sub>O, 30 min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 50µL of 1.0, 0.5, 0.25 mg/mL  
**Temperature:** 80°C  
**Detector:** UV @195nm, 1.0 AUFS





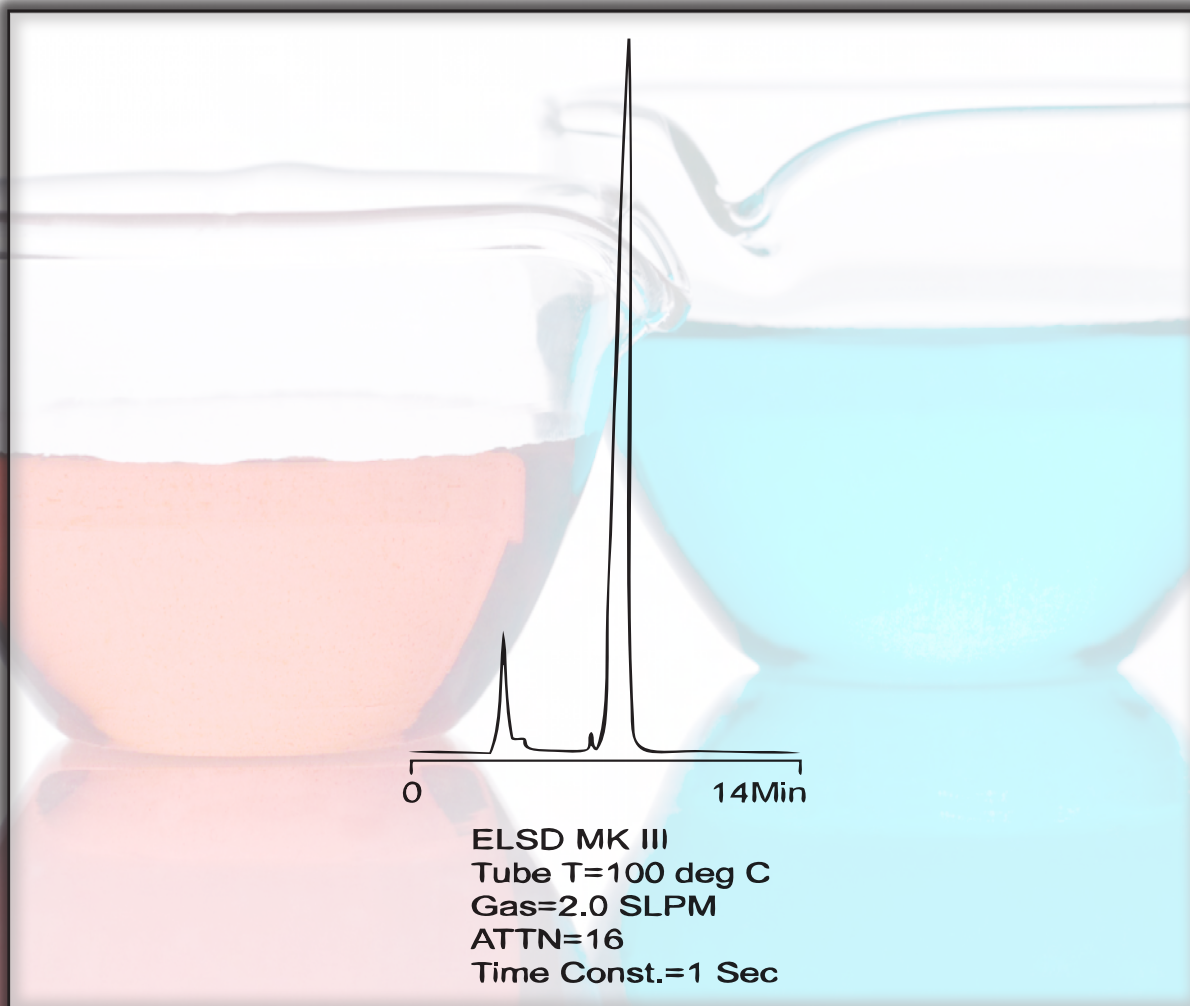
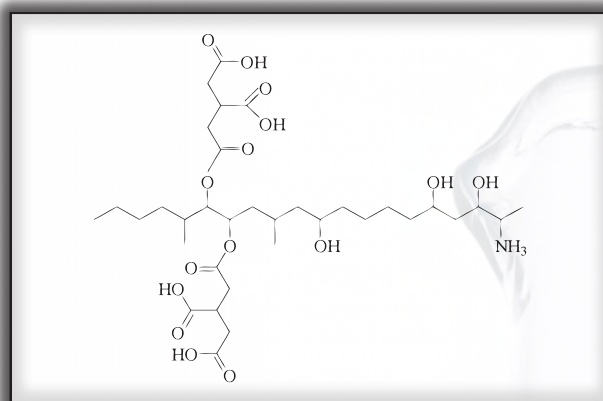


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

FUMONISIN B<sub>1</sub>  
(From Fusarium Moniliforme)

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 1000Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 H<sub>2</sub>O/ACN/MeOH  
 pH=2.7 w/Formic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 100µL of 250ppm Solution in  
 MeOH/H<sub>2</sub>O (80/20)  
**Temperature:** 40°C  
**Detector:** Evaporative Light Scattering,



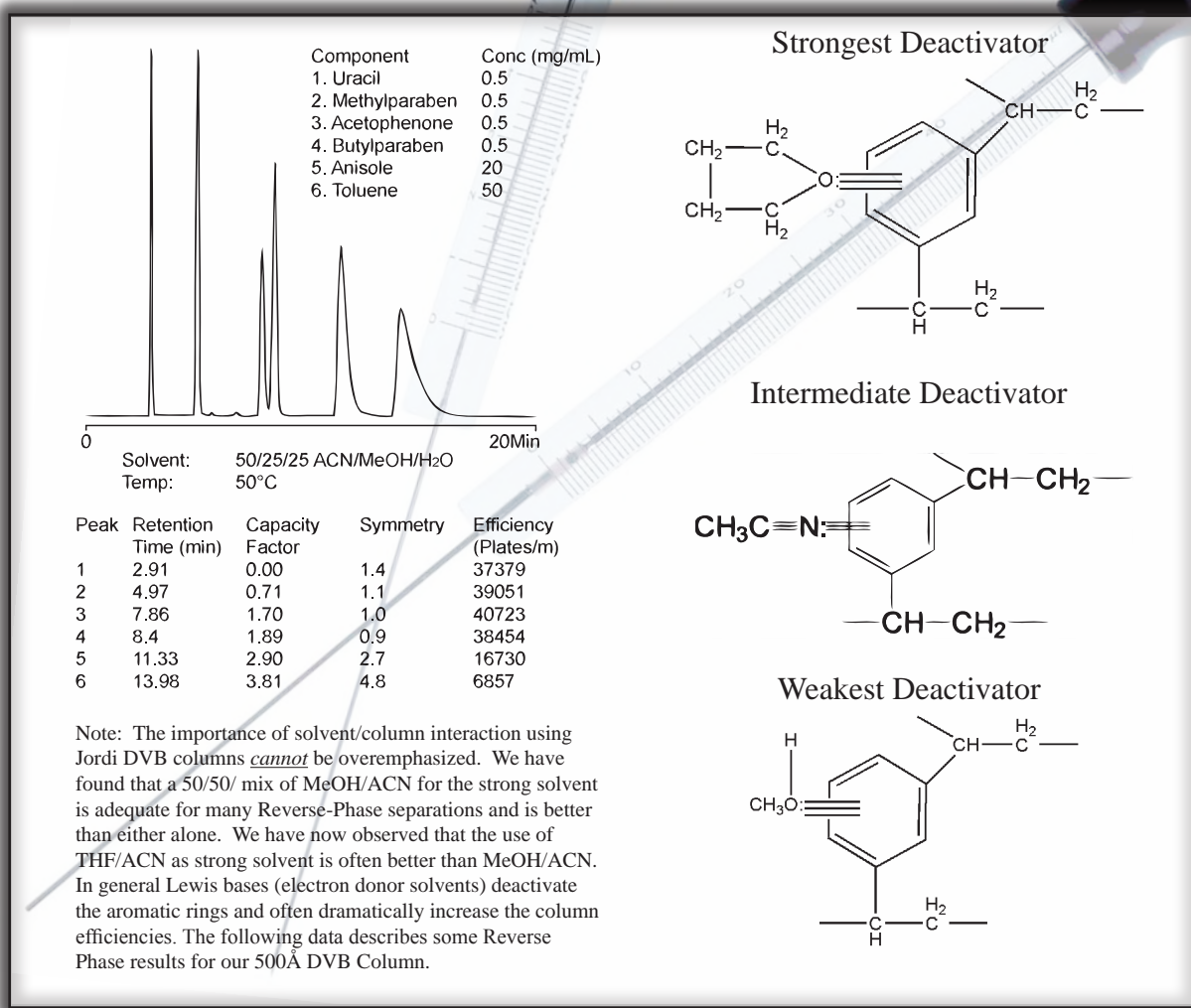


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# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 50/25/25 ACN/MeOH/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** 50°C  
**Detector:** UV @254nm



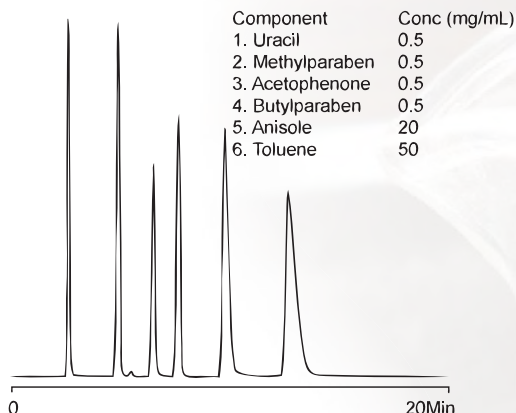


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## REVERSE PHASE STANDARD MIX (New Mobile Phase)

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 30/30/40 THF/ACN/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Temperature:** Ambient  
**Detector:** UV @254nm

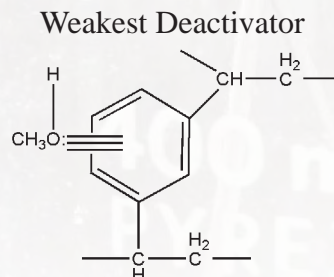
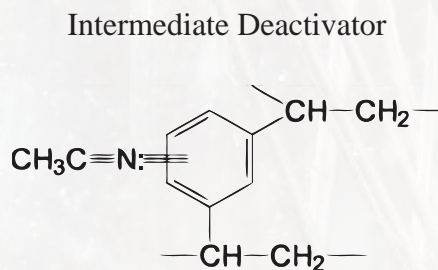
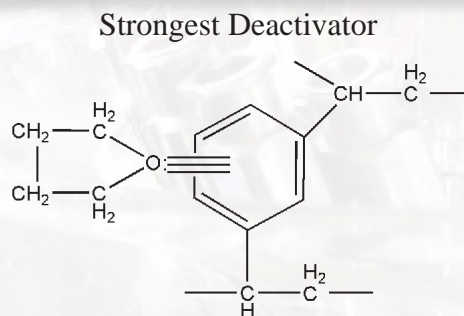


Component	Conc (mg/mL)
1. Uracil	0.5
2. Methylparaben	0.5
3. Acetophenone	0.5
4. Butylparaben	0.5
5. Anisole	20
6. Toluene	50

Solvent: 30/30/40 THF/ACN/H<sub>2</sub>O  
 Temp: Ambient

Peak	Retention Time (min)	Capacity Factor	Symmetry	Efficiency (Plates/m)
1	2.68	0.00	1.6	31821
2	4.94	0.84	1.0	37592
3	6.57	1.45	0.9	40653
4	7.70	1.87	0.8	37050
5	9.81	2.65	1.8	29613
6	12.69	3.73	2.8	17307

Note: The importance of solvent/column interaction using Jordi DVB columns *cannot* be overemphasized. We have found that a 50/50/ mix of MeOH/ACN for the strong solvent is adequate for many Reverse-Phase separations and is better than either alone. We have now observed that the use of THF/ACN as strong solvent is often better than MeOH/ACN. In general Lewis bases (electron donor solvents) deactivate the aromatic rings and often dramatically increase the column efficiencies. The following data describes some Reverse Phase results for our 500Å DVB Column.





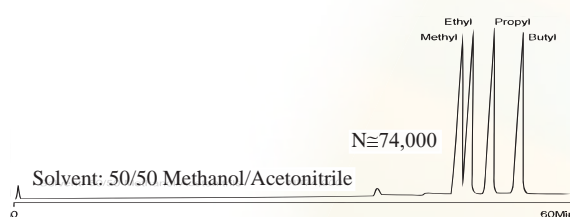
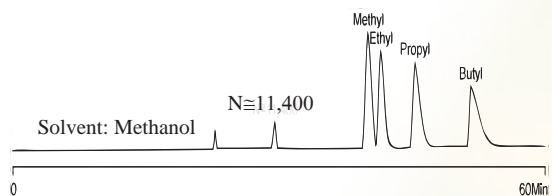
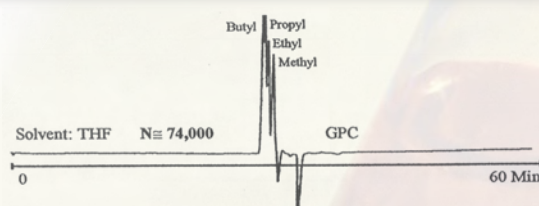
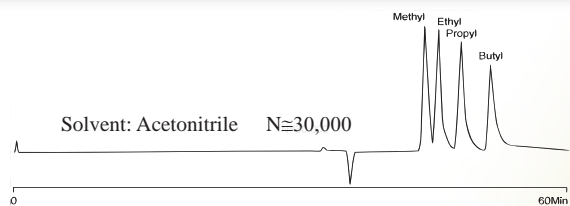


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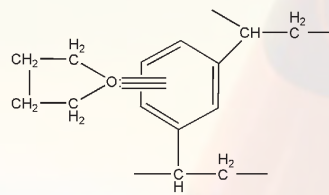
# HPLC APPLICATION

PARABENS by GPC and LC

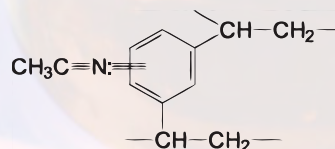
**Part Number:** 15001  
**Packing:** Jordi DVB 500Å  
**Column:** 2-50cm X 10mm ID  
**Solvent:** See Curve detail  
**Flow Rate:** 1.5mL/min.  
**Concentration:** N/A  
**Injection:** N/A  
**Temperature:** 25°C  
**Detector:** N/A



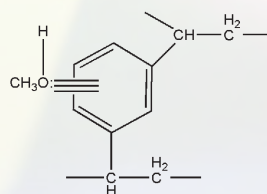
### Strongest Deactivator



### Intermediate Deactivator



### Weakest Deactivator



Note: The importance of solvent/column interaction using Jordi DVB columns *cannot* be overemphasized. We have found that a 50/50/ mix of MeOH/ACN for the strong solvent is adequate for many Reverse-Phase separations and is better than either alone. We have now observed that the use of THF/ACN as strong solvent is often better than MeOH/ACN. In general Lewis bases (electron donor solvents) deactivate the aromatic rings and often dramatically increase the column efficiencies. The following data describes some Reverse Phase results for our 500Å DVB Column.

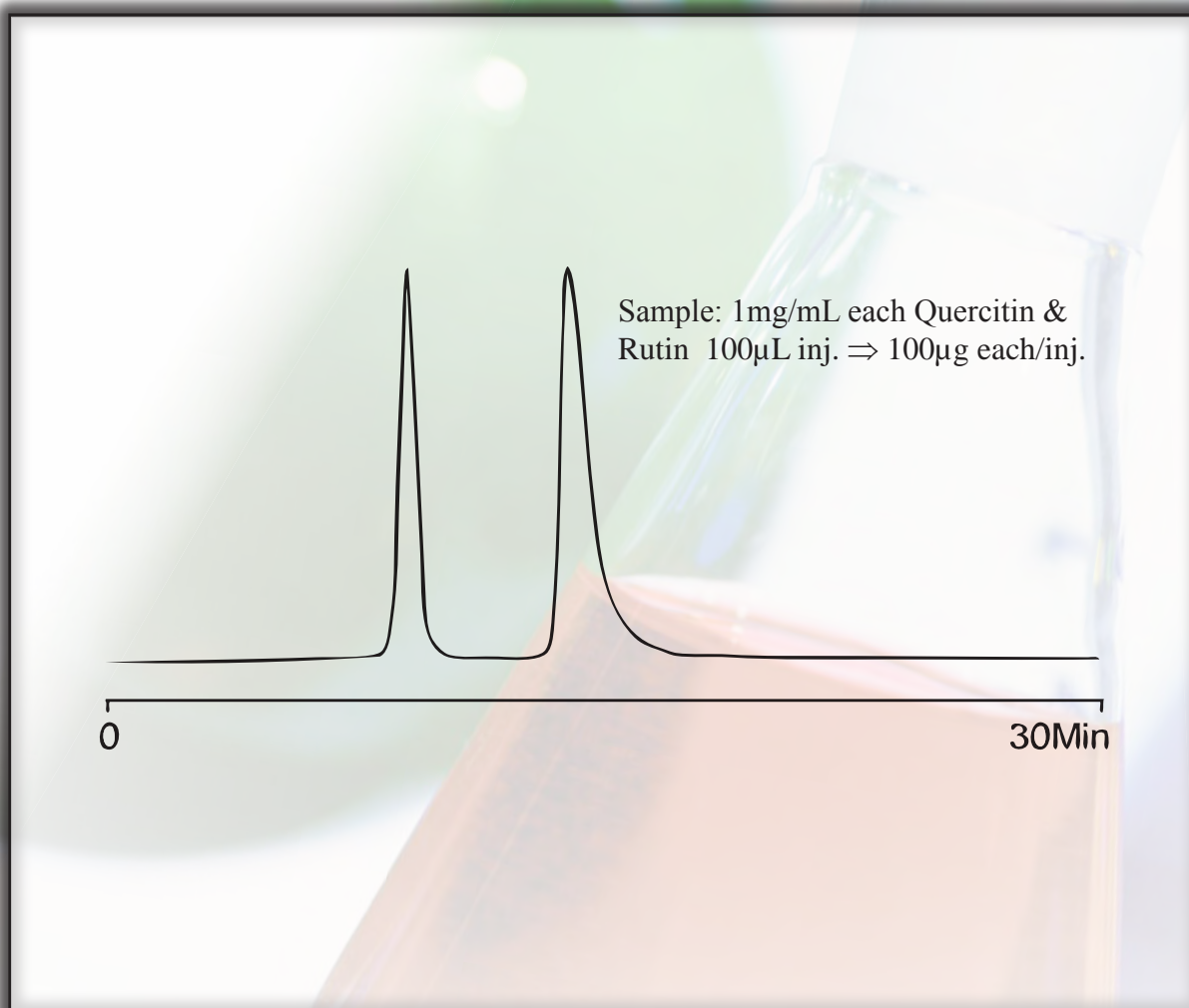
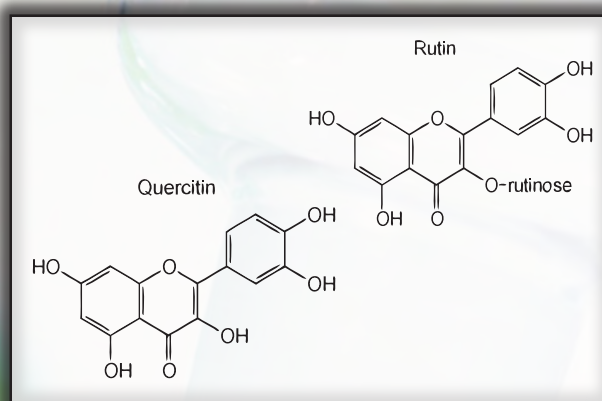


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# HPLC APPLICATION

## QUERCITIN and RUTIN

**Part Number:** 16011  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 10mm ID  
**Solvent:** 75/25 Acetic Acid/MeOH  
**Flow Rate:** 2.0mL/min.  
**Injection:** 100µL  
**Temperature:** Ambient  
**Detector:** UV 360nm, 2 AUFS





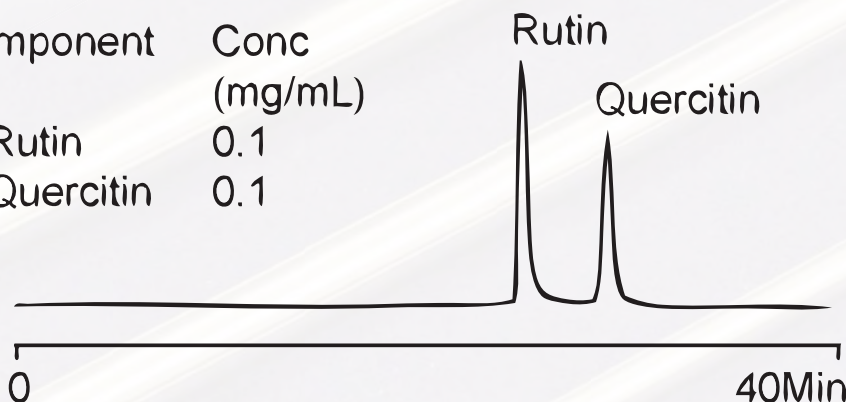
MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## QUERCITIN and RUTIN

**Part Number:** 15001  
**Packing:** Jordi DVB 500Å  
**Column:** 50cm X 10mm ID  
**Mobile Phase:** 50/50 Pyridine/Glacial Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 15µL  
**Temperature:** 40°C  
**Detector:** UV @ 365nm, Sens. 0.2AUFS,  
 Press. 2500 PSIG

Component	Conc (mg/mL)
1. Rutin	0.1
2. Quercitin	0.1



Peak	Retention Time (min)	Capacity Factor	Symmetry	Efficiency (Plates/m)
1	26.11	0.00	1.4	46816
2	29.88	0.14	1.3	54569



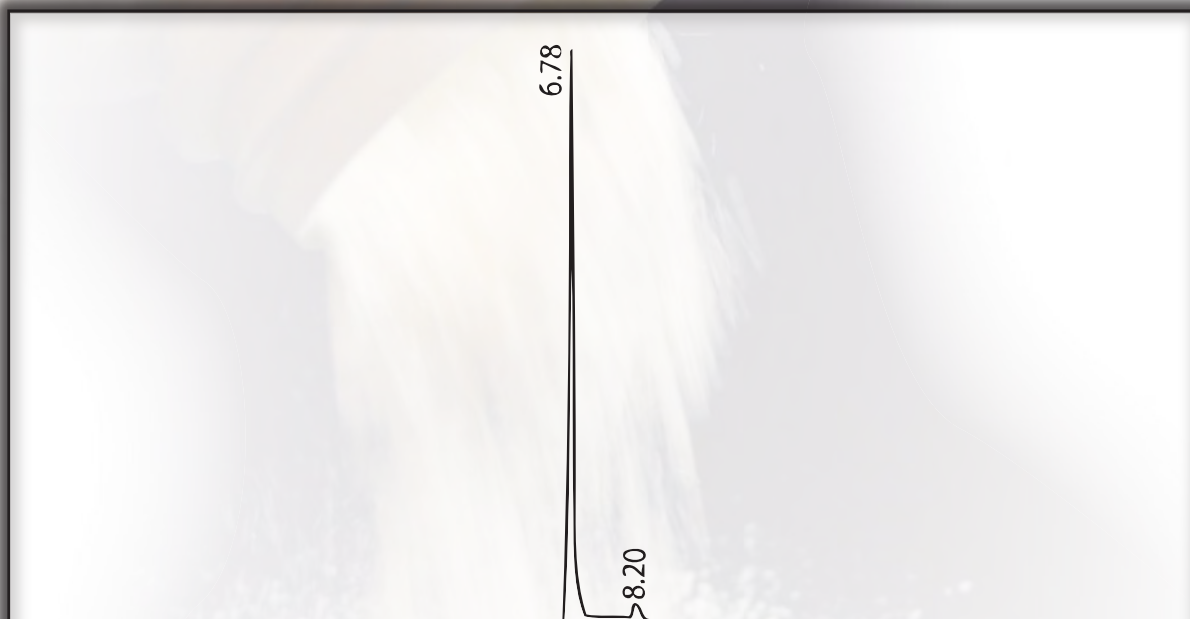
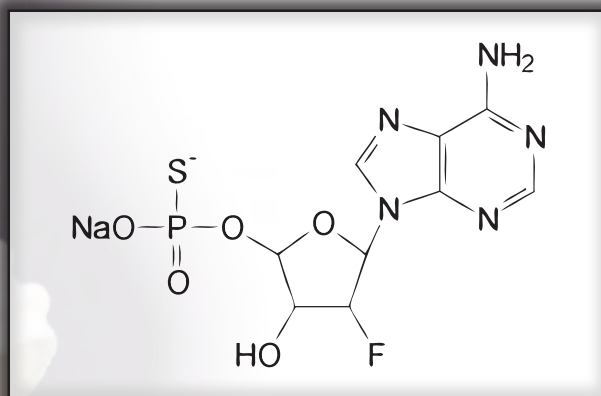


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## 2'DEOXY-2'FLUOROADENOSINE ALPHATHIOPHOSPHATE

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** The elution order of the standards is the monophosphate, the diastereomer triphosphate and finally the free nucleoside  
**Buffer A:** 0.1M TEAA pH 7.0/ Acetonitrile 99/1  
**Buffer B:** 0.1M TEAA pH 7.0/ Acetonitrile/ Methanol 50/25/25  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL 10mM Standards  
**Temperature:** Ambient  
**Detector:** UV @260nm



	Gradient Linear				
Time (min)	0	10	11	12	15
%A	90	0	0	90	90
%B	10	100	100	10	10

This column readily resolves this  $\alpha$ -thiophosphate diastereomer. By switching to methanol versus a mixture of acetonitrile and methanol, higher baseline resolution can be achieved, even between the diastereomers.

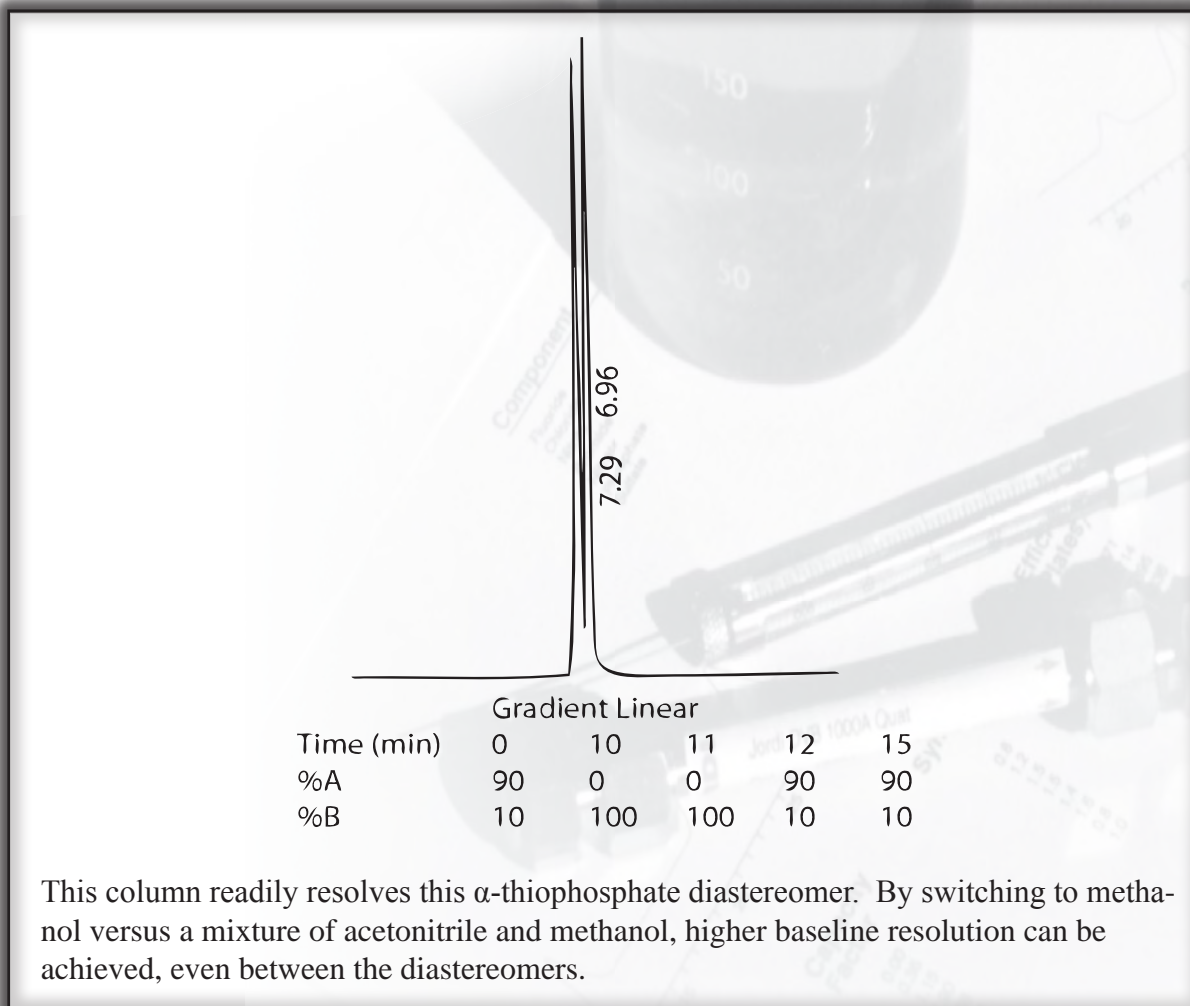
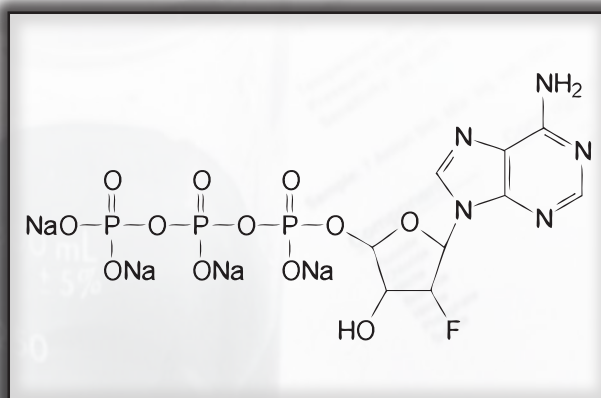


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# HPLC APPLICATION

## 2'DEOXY-2'FLUOROADENOSINE $\alpha$ -THIOTRIPHOSPHATE, SODIUM SALT

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** The elution order of the standards is the monophosphate, the diastereomer triphosphate and finally the free nucleoside  
**Buffer A:** 0.1M TEAA pH 7.0/ Acetonitrile 99/1  
**Buffer B:** 0.1M TEAA pH 7.0/ Acetonitrile/ Methanol 50/25/25  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL 10mM Standards  
**Temperature:** Ambient  
**Detector:** UV @260nm



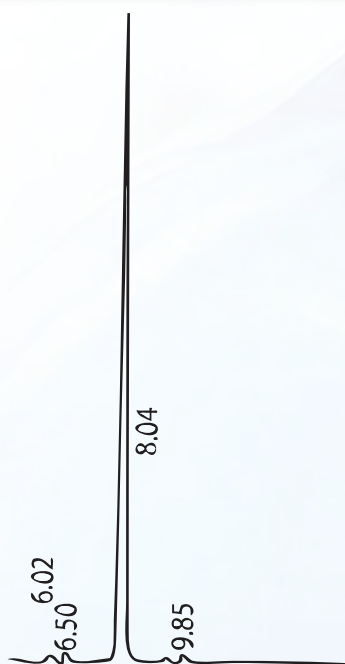


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## 2'DEOXY-2'FLUOROADENOSINE

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** The elution order of the standards is the monophosphate, the diastereomer triphosphate and finally the free nucleoside  
**Buffer A:** 0.1M TEAA pH 7.0/ Acetonitrile 99/1  
**Buffer B:** 0.1M TEAA pH 7.0/ Acetonitrile/ Methanol 50/25/25  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL 10mM Standards  
**Temperature:** Ambient  
**Detector:** UV @260nm



	Gradient Linear				
Time (min)	0	10	11	12	15
%A	90	0	0	90	90
%B	10	100	100	10	10

This column readily resolves this  $\alpha$ -thiophosphate diastereomer. By switching to methanol versus a mixture of acetonitrile and methanol, higher baseline resolution can be achieved, even between the diastereomers.



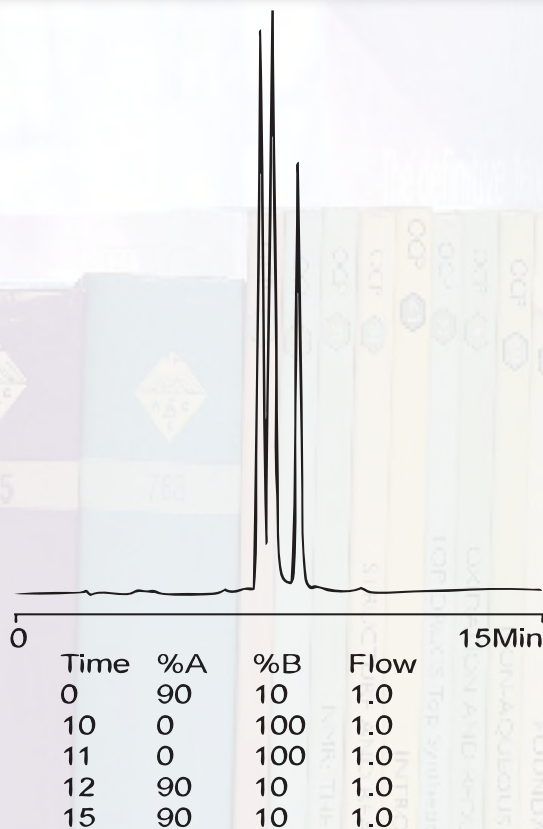


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## MIX of 2'DEOXY-2'FLUOROADENOSINE ALPHATHIOTRIPHOSPHATE and 2'DEOXY-2'FLUOROADENOSINE

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** The elution order of the standards is the monophosphate, the diastereomer triphosphate and finally the free nucleoside  
**Buffer A:** 0.1M TEAA pH 7.0/ Acetonitrile 99/1  
**Buffer B:** 0.1M TEAA pH 7.0/ Acetonitrile/  
Methanol 50/25/25  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Temperature:** Ambient  
**Detector:** UV @260nm



This column readily resolves this  $\alpha$ -thiophosphate diastereomer. By switching to methanol versus a mixture of acetonitrile and methanol, higher baseline resolution can be achieved, even between the diastereomers.

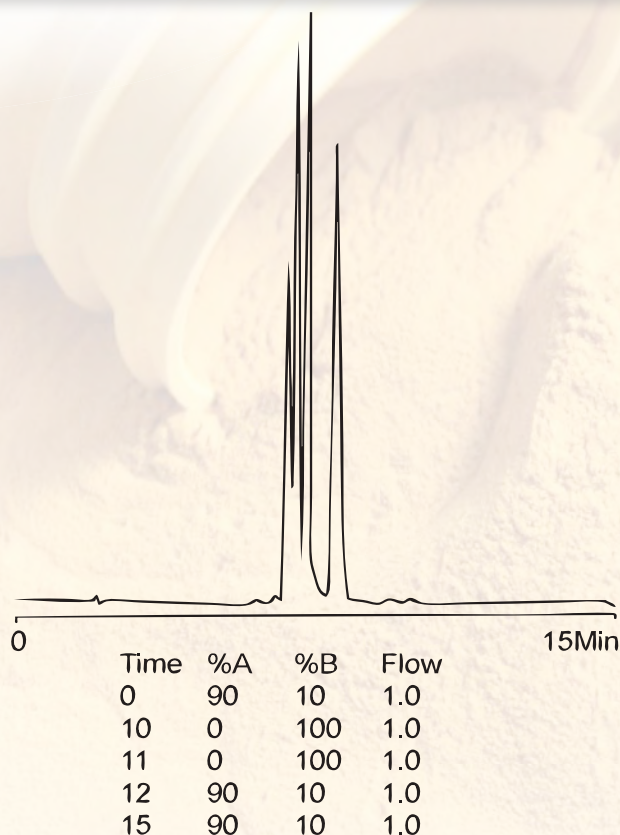


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# HPLC APPLICATION

MIX of 2'DEOXY-2'FLUOROADENOSINE and the MONO and TRI-

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** The elution order of the standards is the monophosphate, the diastereomer triphosphate and finally the free nucleoside  
**Buffer A:** 0.1M TEAA pH 7.0/ Acetonitrile 99/1  
**Buffer B:** 0.1M TEAA pH 7.0/ Acetonitrile/ Methanol 50/25/25  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Temperature:** Ambient  
**Detector:** UV @260nm



This column readily resolves this  $\alpha$ -thiophosphate diastereomer. By switching to methanol versus a mixture of acetonitrile and methanol, higher baseline resolution can be achieved, even between the diastereomers.

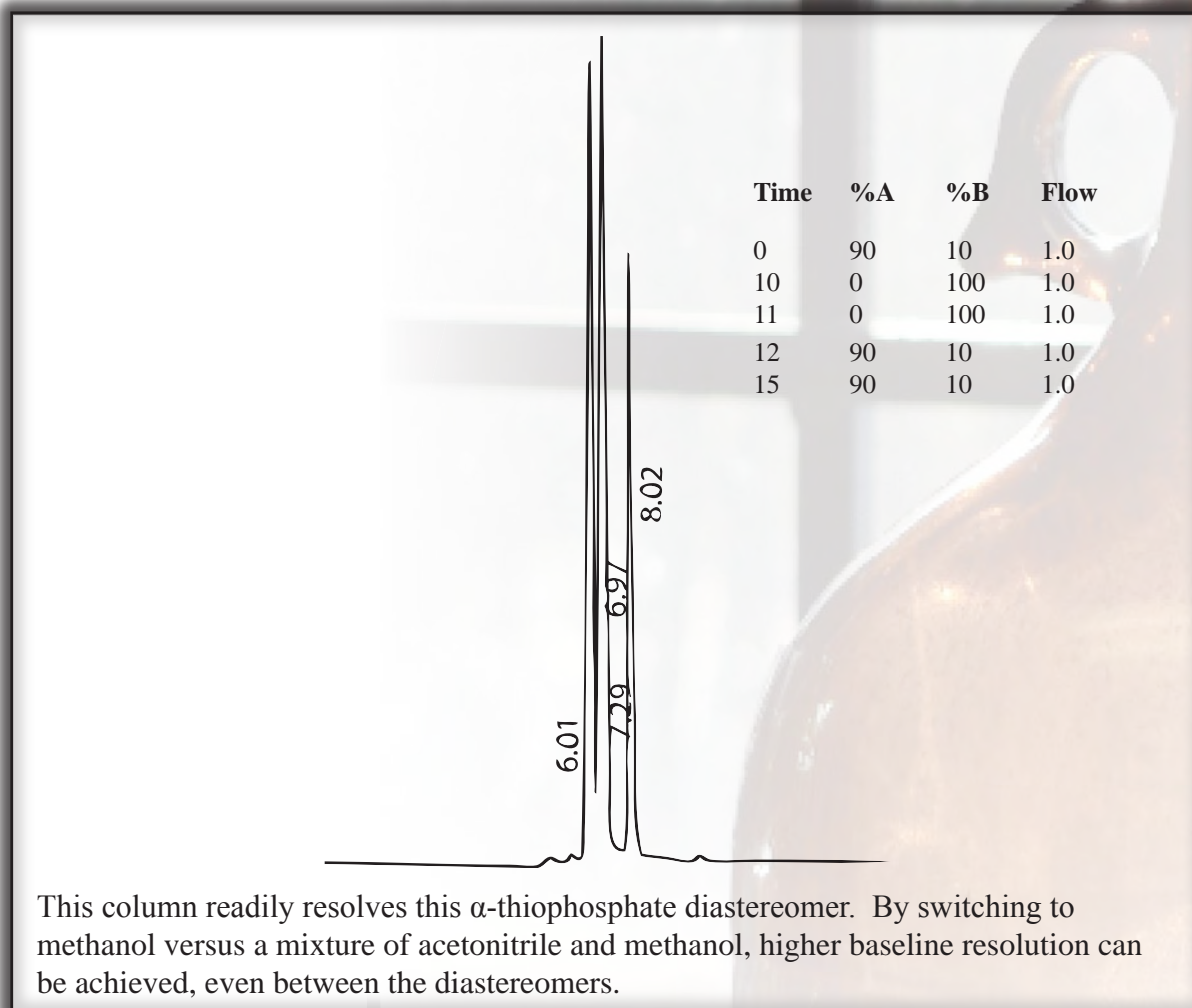


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# HPLC APPLICATION

## MIX of 2'DEOXY-2'FLUOROADENOSINE ALPHATHIOTRIPHOSPHATE and 2'DEOXY-2'FLUOROADENOSINE

**Part Number:** 16507  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 25cm X 4.6mm ID  
**Buffer A:** 99/1 0.1M TEAA, pH 7.0/Acetonitrile  
**Buffer B:** 50/50 0.1M TEAA, pH 7.0/Acetonitrile  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Temperature:** Ambient  
**Detector:** UV @260nm





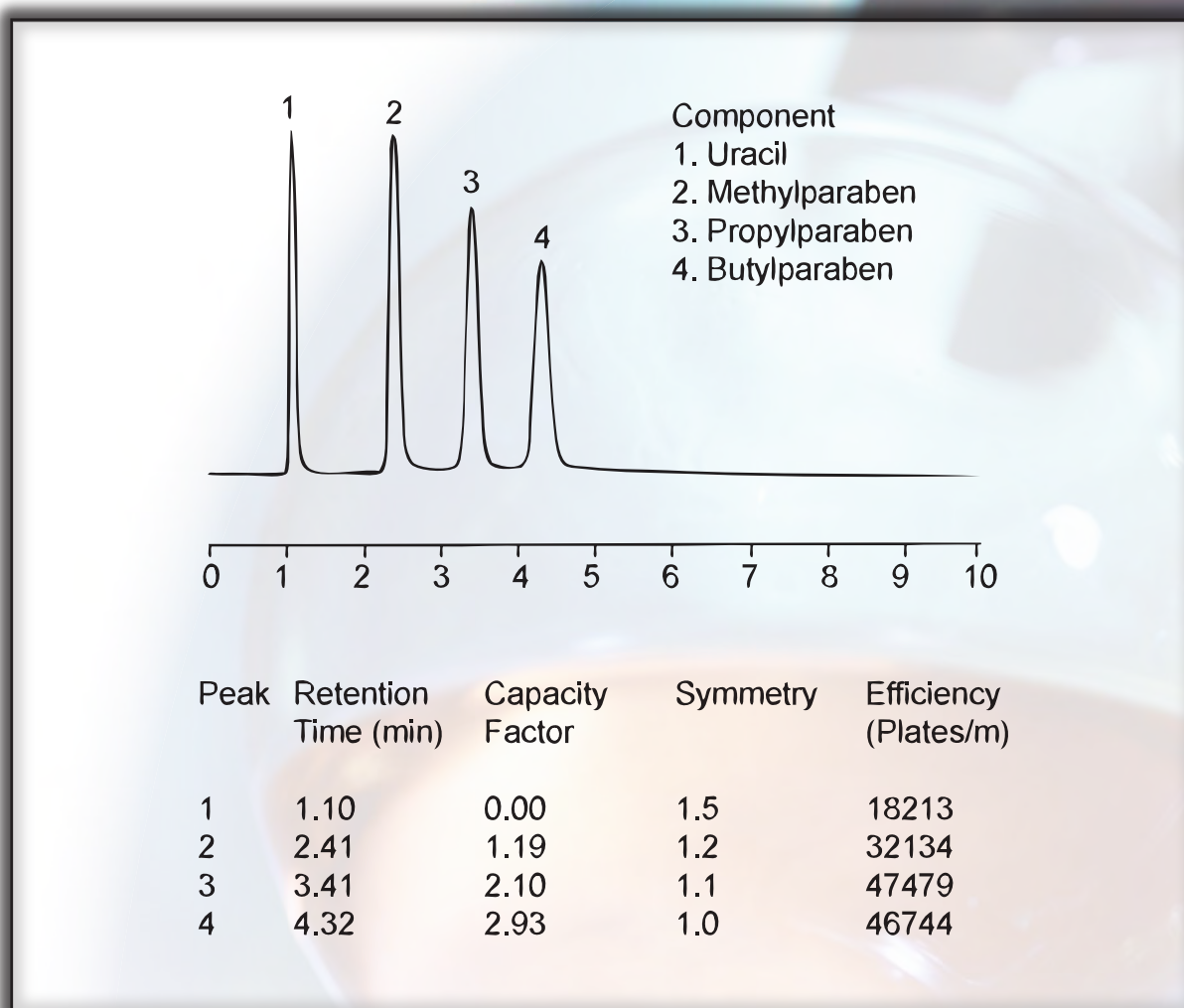


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# HPLC APPLICATION

## RP MIX

**Part Number:** 60026  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 53cm X 7mm ID  
**Solvent:** 10/20/30/40 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5µL  
**Concentration:** 0.5mg/mL  
**Temperature:** 50°C  
**Detector:** UV @254nm, Sens. 2.0 AUFS, Press. 650 psig



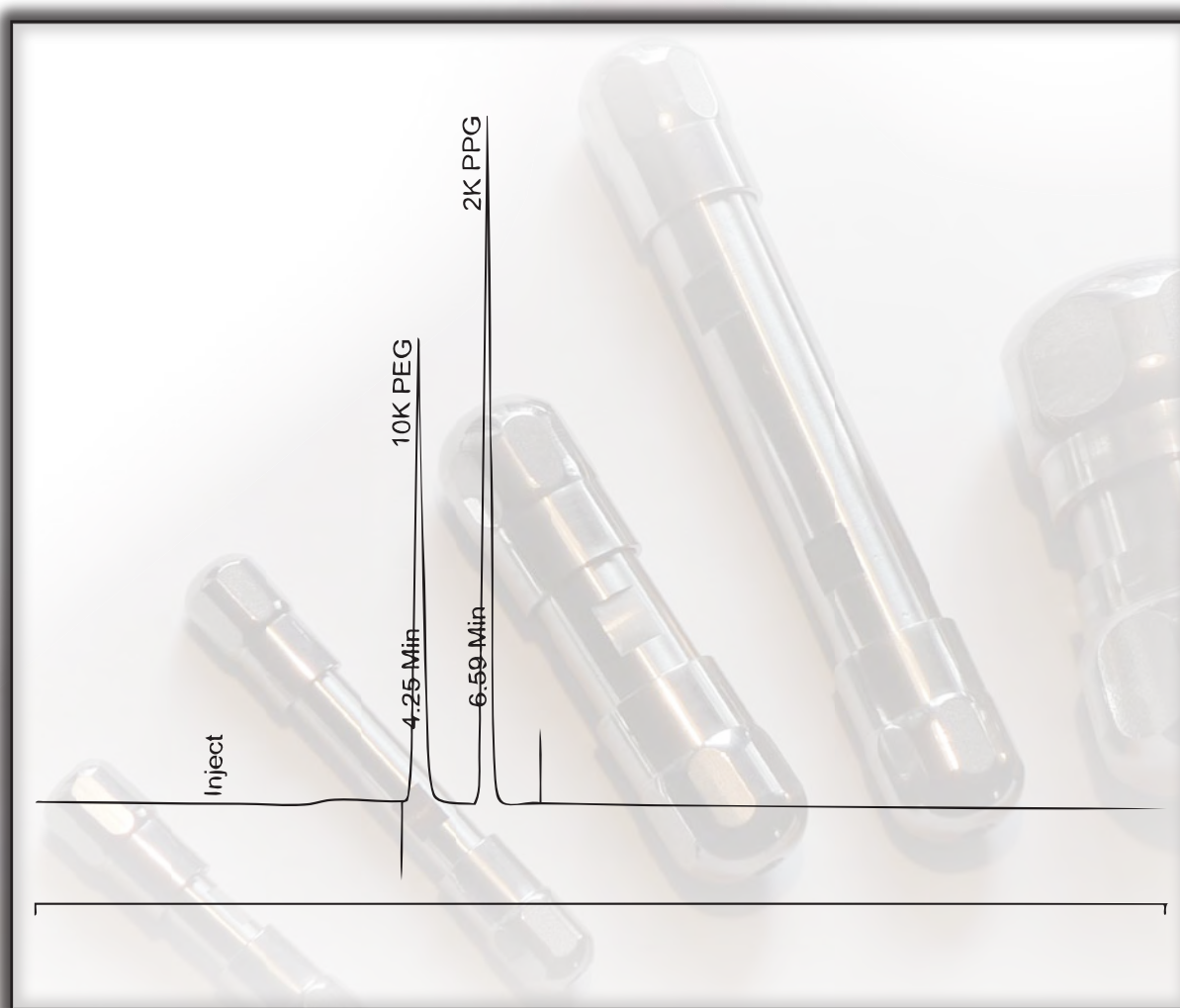


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# HPLC APPLICATION

SEPARATION of POLYETHYLENE GLYCOL and POLYPROPYLENE GLYCOL

**Part Number:** 16502  
**Packing:** Jordi DVB Reverse Phase 500Å  
**Column:** 3- 15cm X 4.6mm ID  
**Gradient:** 40/60 A/B → 100 B linear over 10 min.  
A: 78/22 CH<sub>3</sub>CN/H<sub>2</sub>O B: 2-propanol  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Concentration:** 1mg/mL  
**Temperature:** 80°C  
**Detector:** Alltech Mark III ELSD, Attn: 16, Exhaust: 50°C, Flow 2.00 SLPM Air



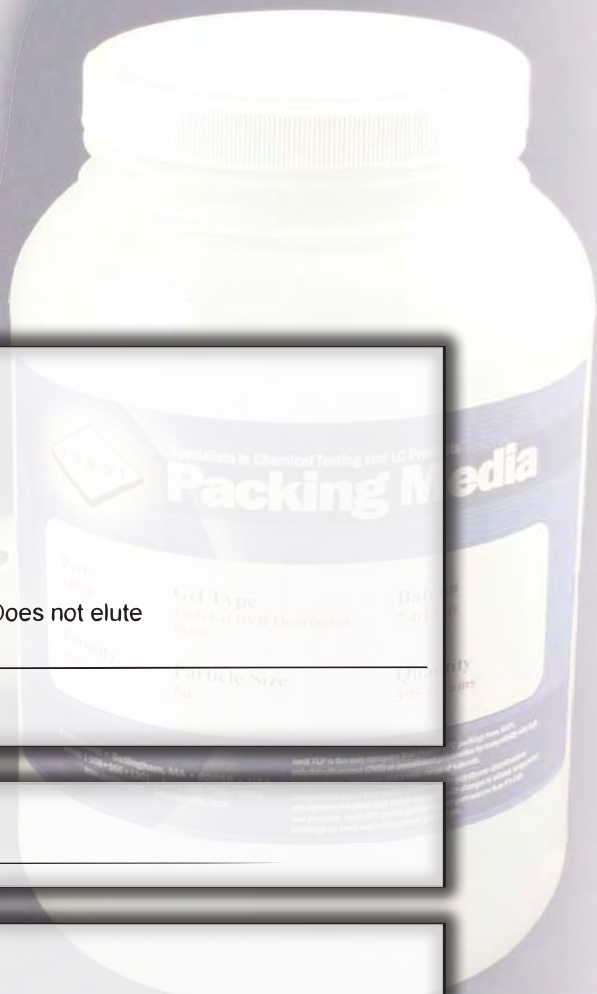
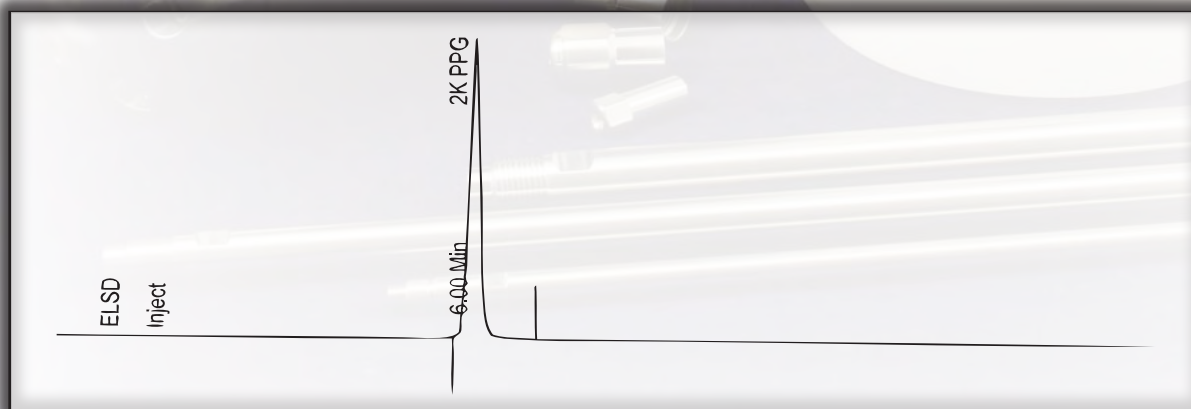
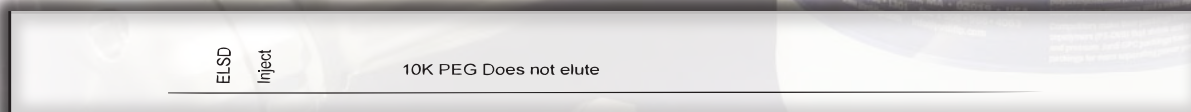
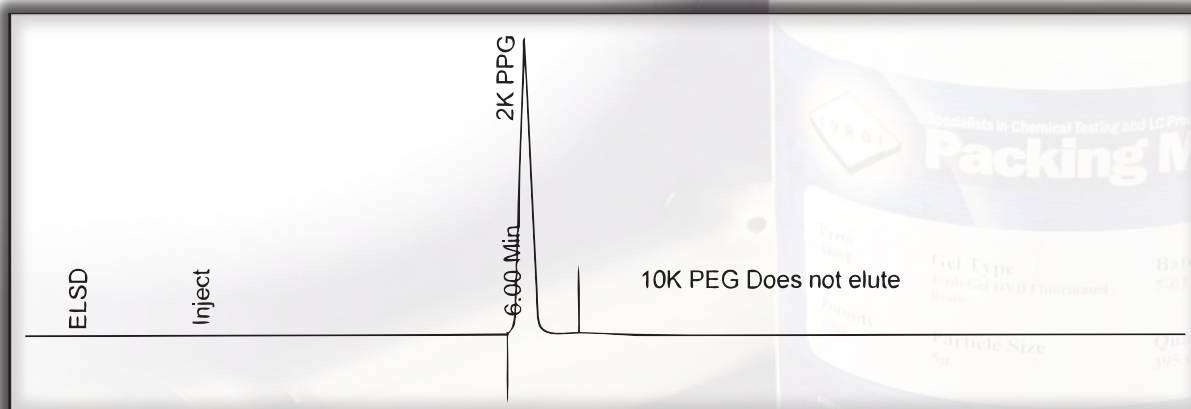


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# HPLC APPLICATION

## SEPARATION of POLYETHYLENE GLYCOL and POLYPROPYLENE GLYCOL

**Part Number:** 16502  
**Packing:** Jordi DVB 500Å  
**Column:** 3- 15cm X 4.6mm ID  
**Isocratic:** 2-propanol  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Concentration:** 1mg/mL  
**Temperature:** 80°C  
**Detector:** Alltech Mark III ELSD, Attn: 16,  
 Exhaust: 50°C, Flow 2.00 SLPM Air





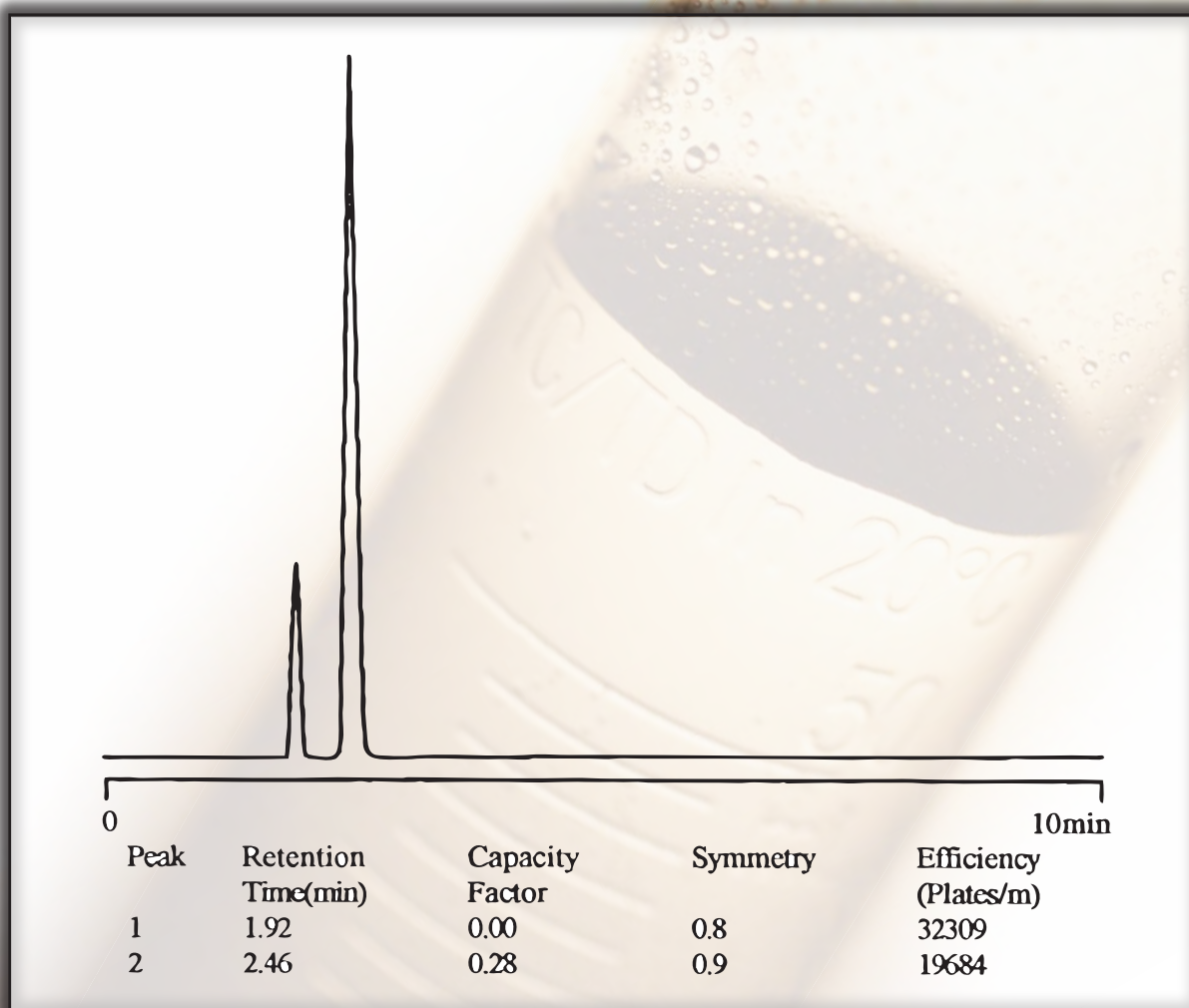
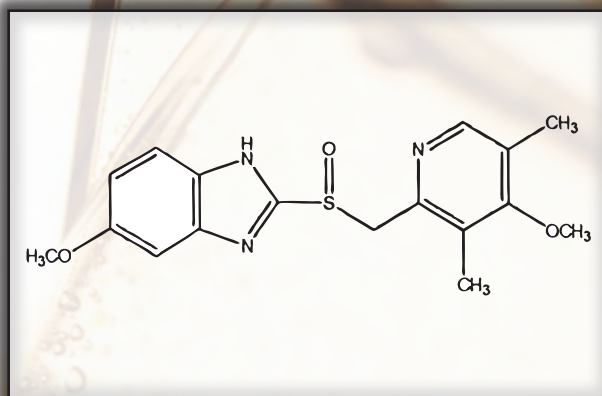


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# HPLC APPLICATION

## ANTIULCERATIVE OMEPRAZOLE

**Part Number:** 16502  
**Packing:** Jordi DVB RP 500Å  
**Column:** 15cm X 4.6mm ID  
**Mobile Phase:** 10/20/30/40 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Concentration:** 1mg/mL  
**Temperature:** 50°C  
**Detector:** UV @254nm, 2.0AUFS



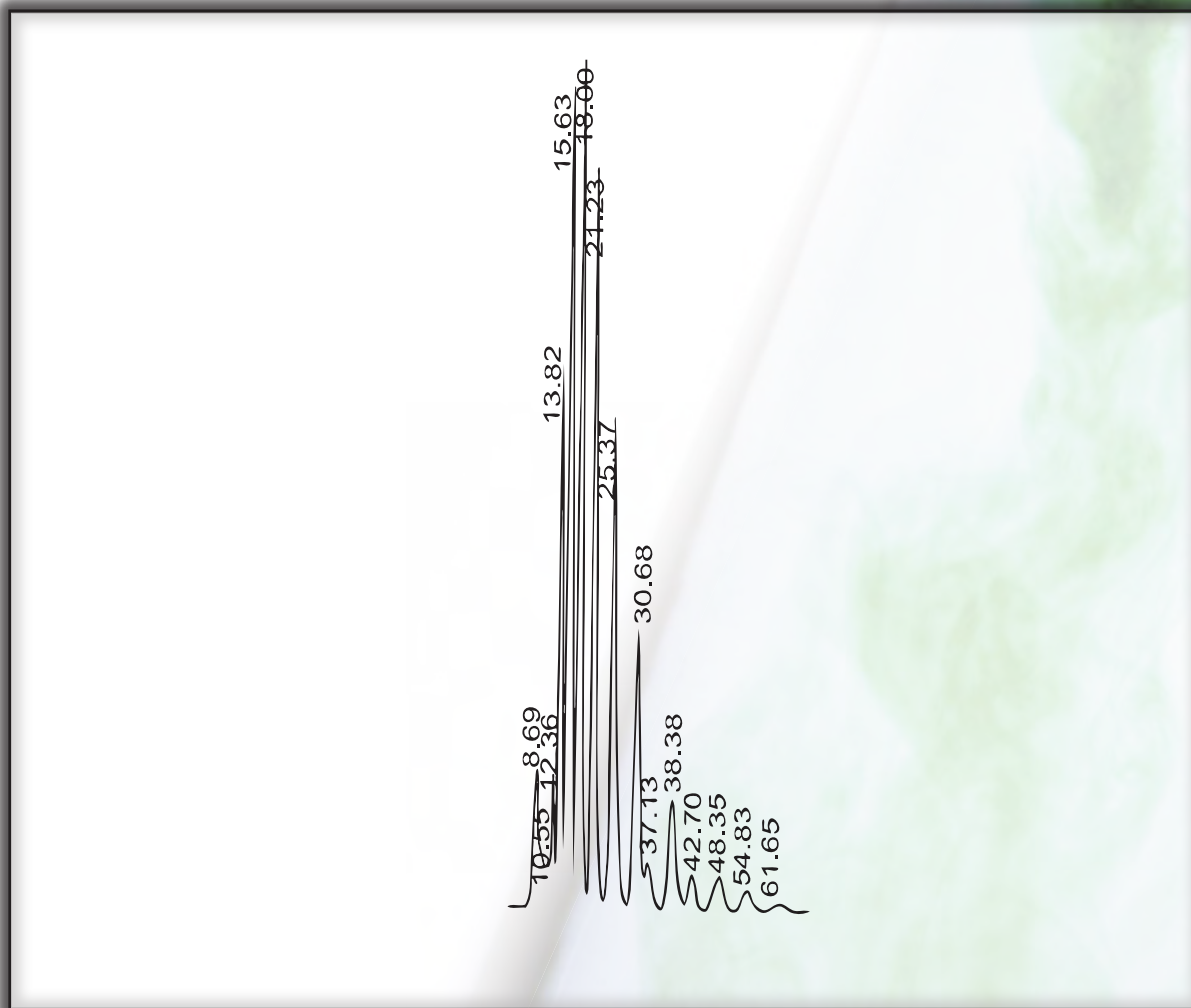


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# HPLC APPLICATION

PEG 425

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 10<sup>3</sup>Å  
**Column:** 25cm x 4.6mm  
**Solvent:** 60/40MeOH/ H<sub>2</sub>O  
**Flow Rate:** 0.5mL/min.  
**Injection:** 50µL  
**Temperature:** N/A  
**Detector:** Alltech ELSD Attn 16, SLPM 16, Drift Tube 80°C



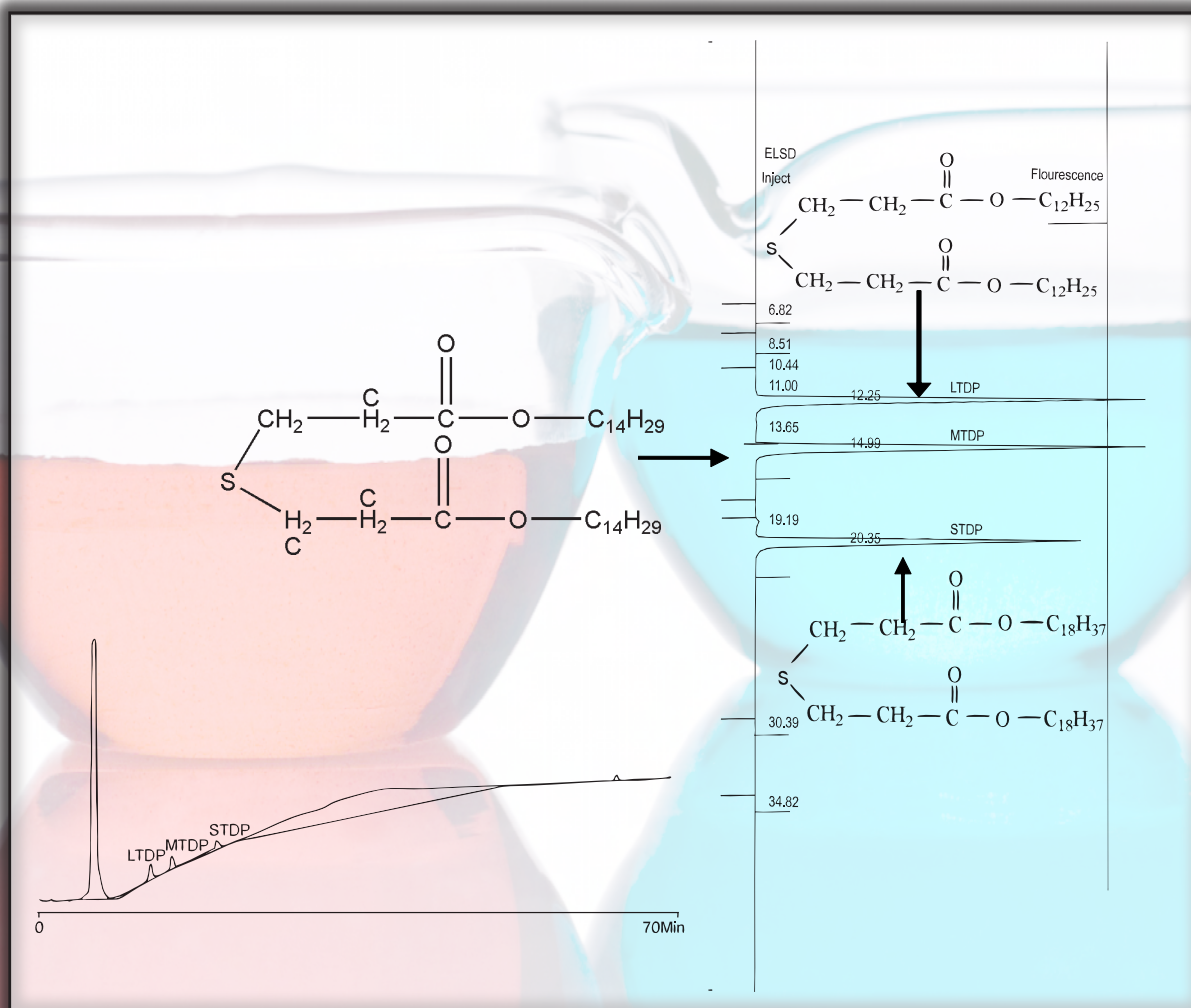


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# HPLC APPLICATION

## DILAURYLTHIODIPROPIONATE, DIMYRISTYLTHIODIPROPIONATE, & DISTEARYLTHIODIPROPIONATE-POLYMER ANTIOXIDANTS

**Part Number:** 15310  
**Packing:** Jordi DVB 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** 100% ACN → 100% 45/45/10 ACN/IPA/IO linear over 30 min  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL (1mg/mL ea. std. in 50/50 CHCl<sub>3</sub>/IO)  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA & Alltech 500 ELSD  
**990 PDA Cond:** 210nm 1 AUFS  
**ELSD Conditions:** Attn 16, Drift Tube 80°C, 2.0 SLPM House Air, Time 1 sec.





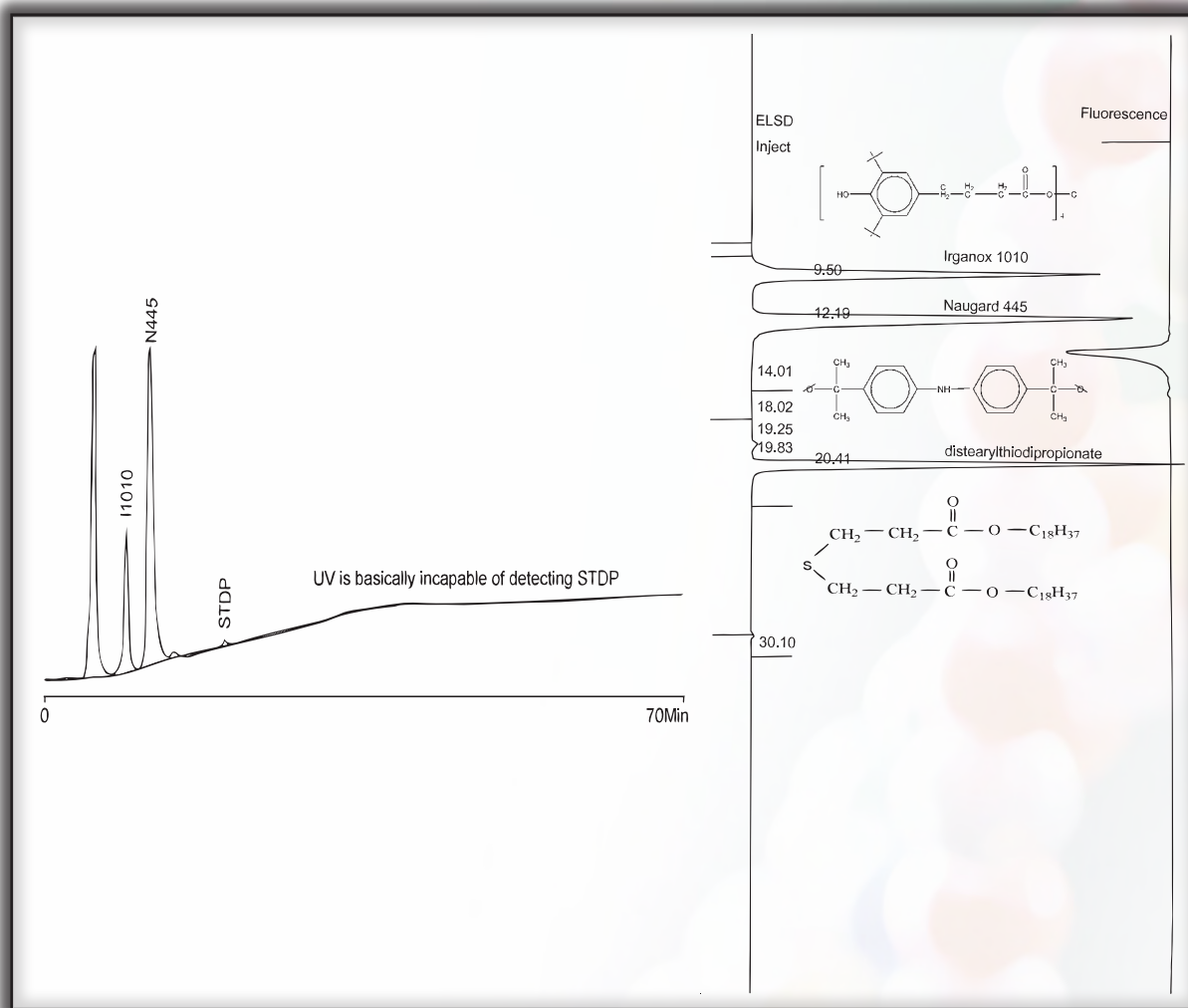


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# HPLC APPLICATION

## IRGANOX 1010, NAUGARD 445 & DISTEARYLTHIODIPROPIONATED-POLYMER ANTIOXIDANTS

**Part Number:** 15310  
**Packing:** Jordi DVB 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 100% ACN → 100% 45/45/10 ACN/IPA/IO linear over 30min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL (1mg/mL ea. std. in 50/50 CHCl<sub>3</sub>/IO)  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA & Alltech 500 ELSD  
**Waters 990 Cond.:** 215nm 1 AUFS  
**Alltech ELSD Cond:** Attn 16, Drift Tube 80°C, 2.0 SLPM House Air, Time 1 sec.



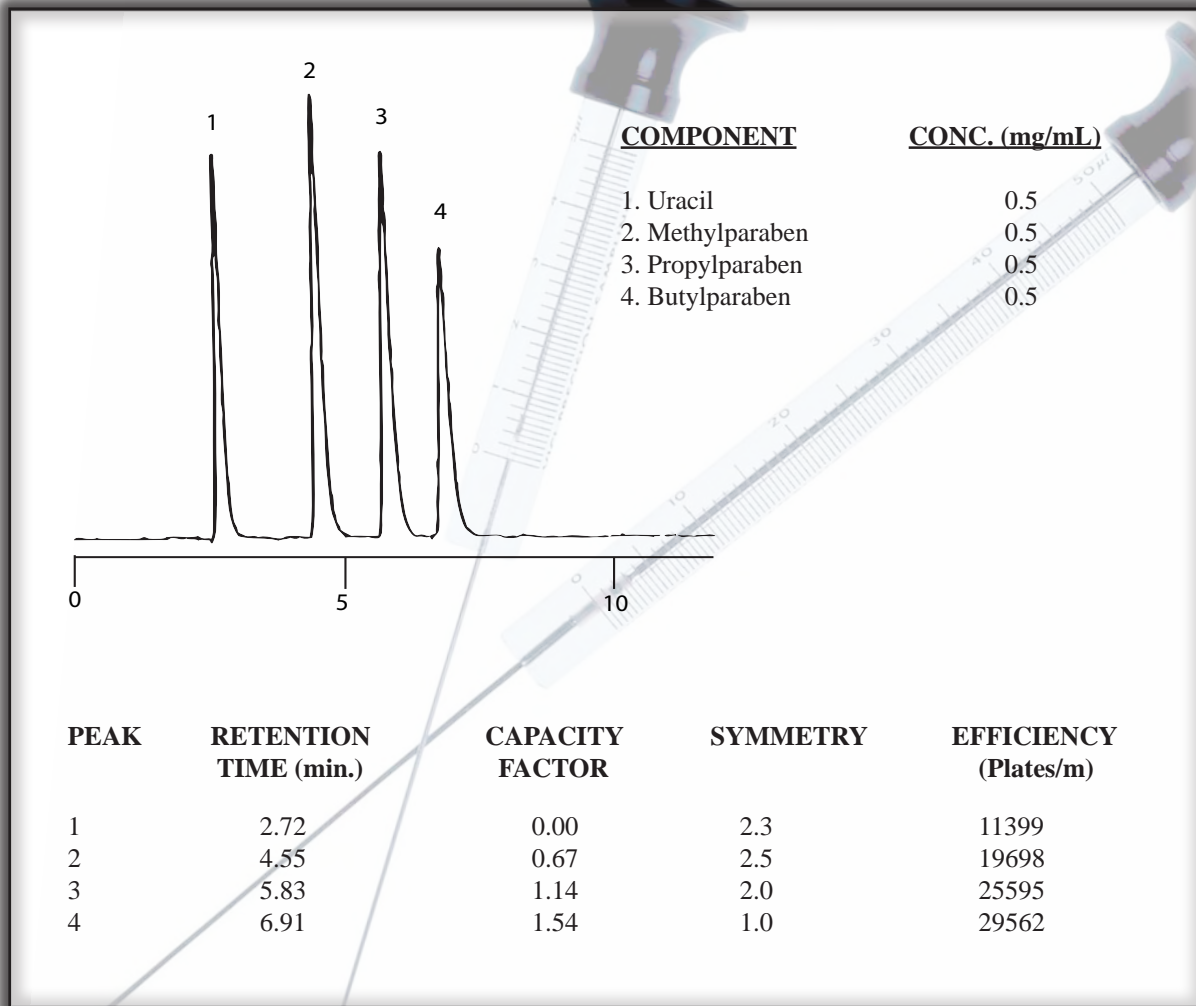


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# HPLC APPLICATION

## REVERSE PHASE MIX

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Mobile Phase:** 10/20/30/40 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 3µL  
**Conc.:** 0.5mg/mL of Uracil, Methylparaben, Propylparaben, Butylparaben  
**Temperature:** 50°C  
**Detector:** UV @254nm, Sens. 2.0 AUFS



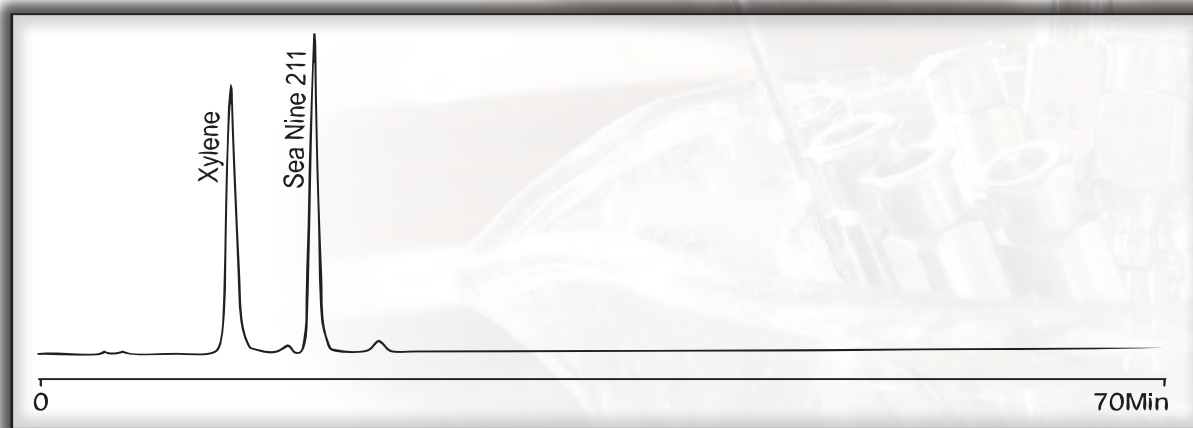


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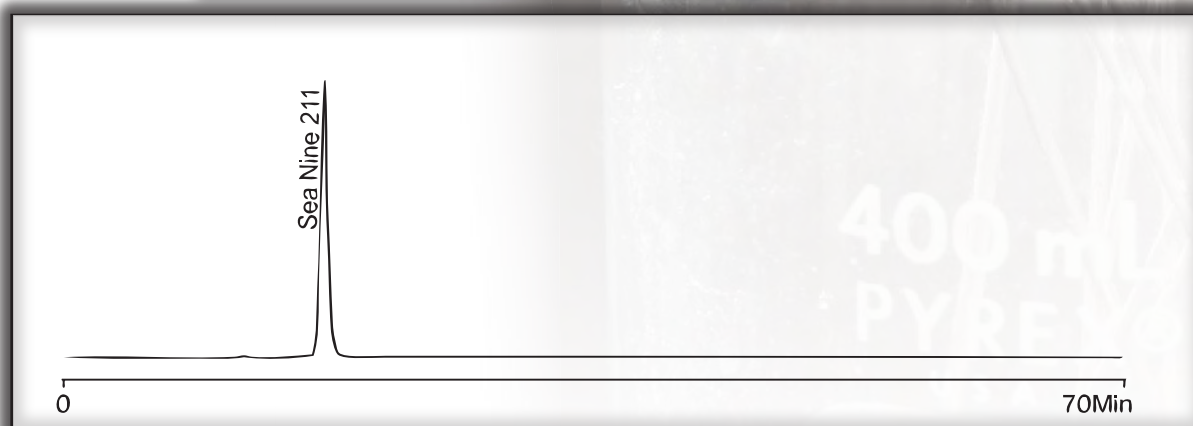
# HPLC APPLICATION

## SEA NINE 211 ROHM & HAAS ANTIFOULING AGENT

**Part Number:** 15310  
**Packing:** Jordi DVB Organic 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** 78/22 → 100/0 CH<sub>3</sub>CN/H<sub>2</sub>O linear over 30min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** See Curve for details  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA, 225nm or 283nm 1.0 AUFS



10 $\mu$ L inj. 1/100 dilution of Sea Nine 211-30% (4,5-dichloro-2-n-octyl-4-isothiazolin-3-one and 70% xylene). Thus each injection contained approximately 7mg xylene and 3mg active ingredient





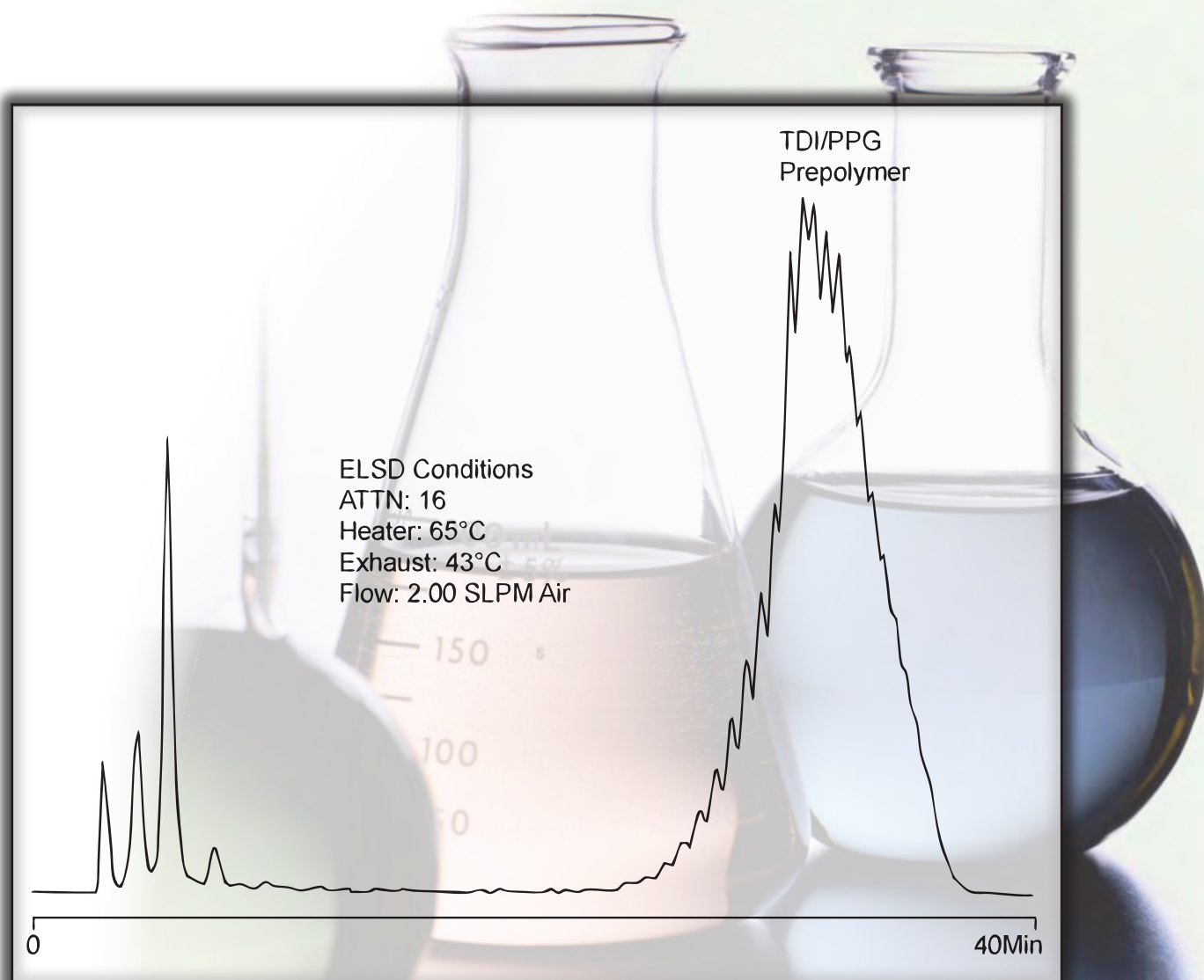


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# HPLC APPLICATION

## URETHANE PREPOLYMER

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** 100/0 → 0/100 ACN/CHCl<sub>3</sub> linear over 30min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5μL  
**Temperature:** 65°C  
**Detector:** Alltech 500 ELSD, see curve for details  
**Conc.:** 100mg/mL



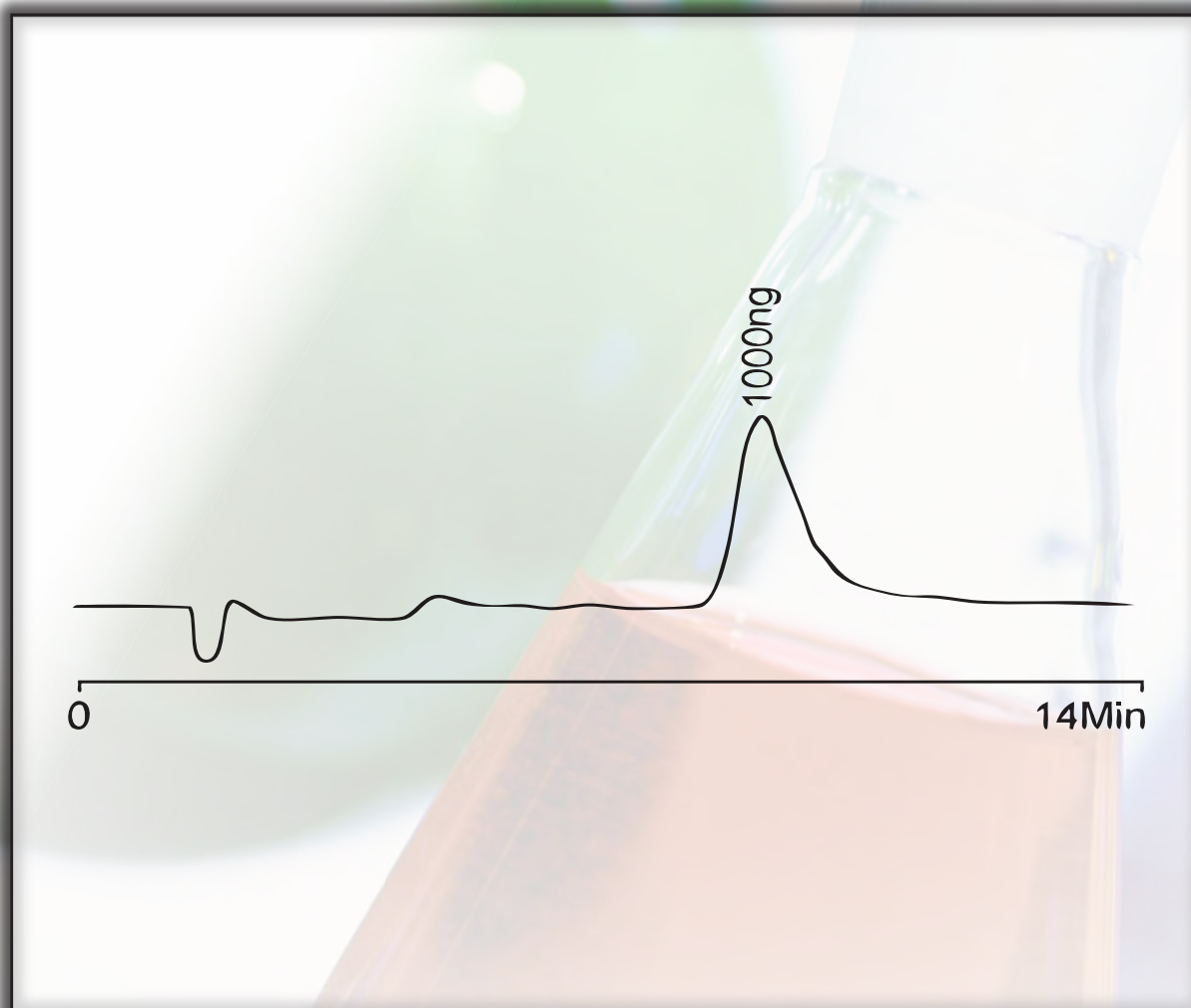
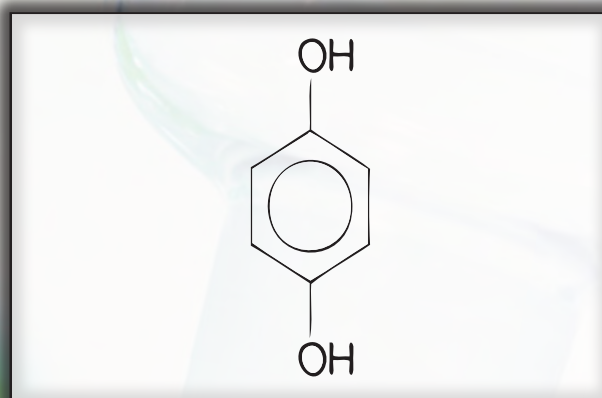


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# HPLC APPLICATION

## HYDROQUINONE

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Isocratic:** 10/10/80 MeOH/ACN/H<sub>2</sub>O w/0.1% TFA for 15min. then flush with THF for 15min. and then re-equilibrate with initial mobile phase.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 100µL  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA @290nm  
**Conc.:** 10µg/mL



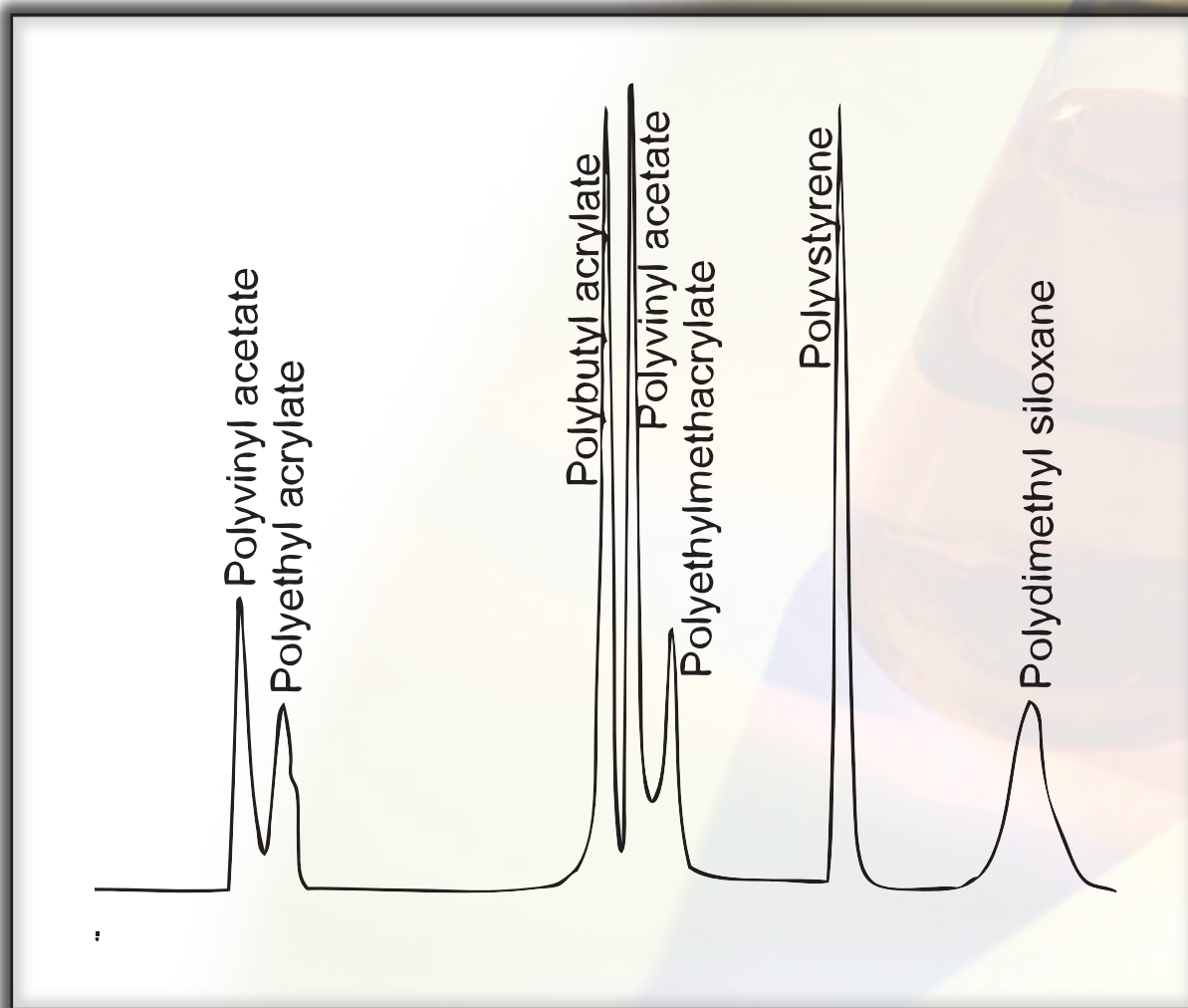


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# HPLC APPLICATION

## POLYMER SAMPLE SEPARATIONS USING RP CHROMATOGRAPHY

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** 100/0 → 0/100 ACN/CHCl<sub>3</sub> linear over 30 min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Conc.:** 5mg/mL  
**Temperature:** 65°C  
**Detector:** Alltech 500 ELSD: ATTN 16, Heater 65°C  
Exhaust 43°C, Flow 2.00 SLPM Air





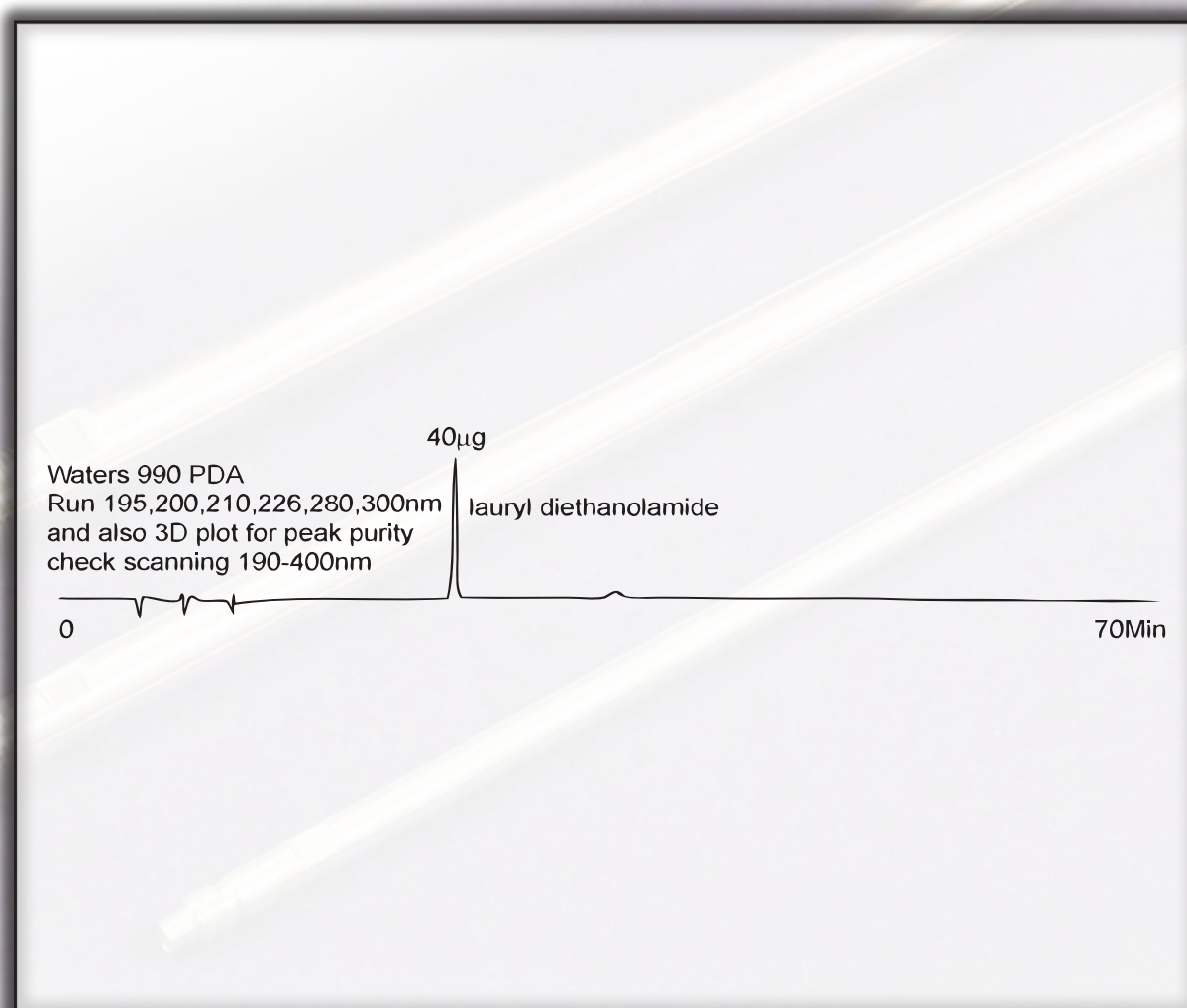


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# HPLC APPLICATION

## ANTI STATIC ANALYSIS

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase $10^3\text{\AA}$   
**Column:** 25cm X 4.6mm ID  
**Gradient:** 78/22  $\rightarrow$  100/0  $\text{CH}_3\text{CN}/\text{H}_2\text{O}$  over 30 min. linear  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10 $\mu\text{L}$   
**Concentration:** 4mg/mL  
**Temperature:** 80 $^\circ\text{C}$   
**Detector:** Waters 990 PDA, see curve for conditions



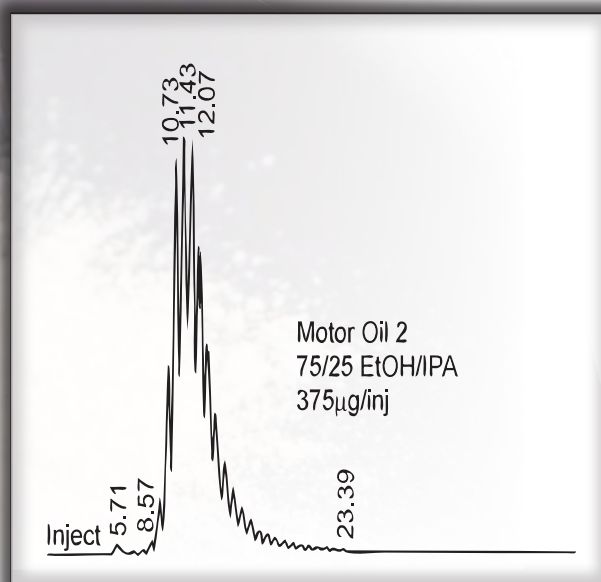
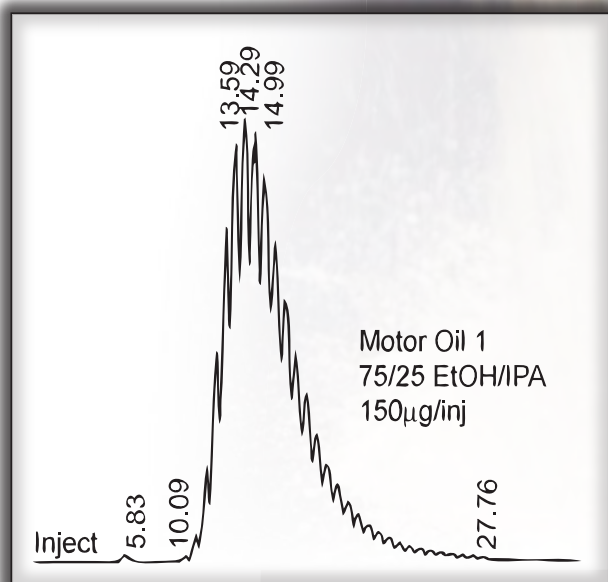
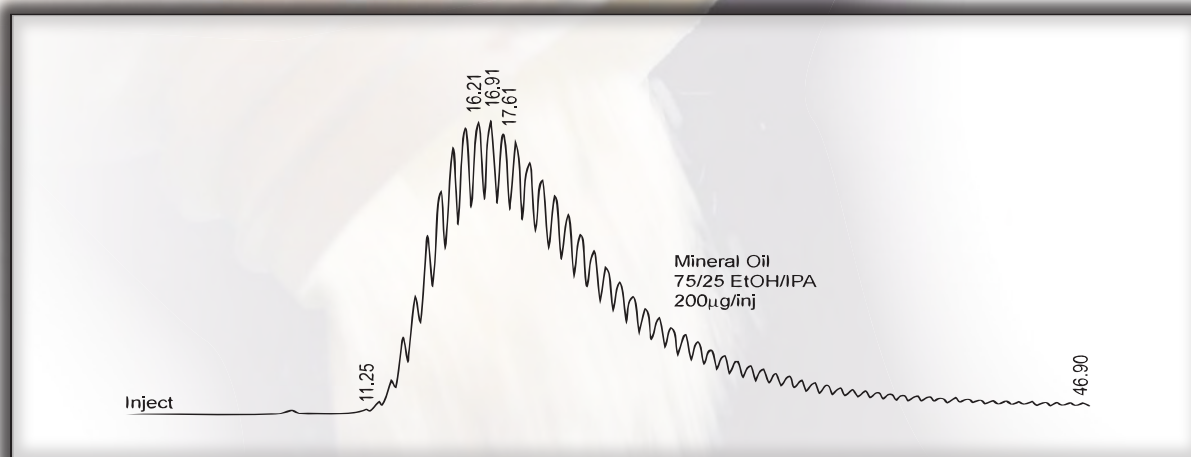


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# HPLC APPLICATION

## MINERAL and MOTOR OILS

**Part Number:** 16508  
**Packing:** Jordi DVB RP 10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Isocratic:** 75/25 Ethanol/2-Propanol  
**Flow Rate:** 1.0mL/min.  
**Injection:** See Curve Detail  
**Temperature:** 80°C  
**Detector:** Alltech 500 ELSD  
**ELSD Conditions:** ATTN 4 Heater 70°C Exhaust 50°C Flow 2.0 SLPM



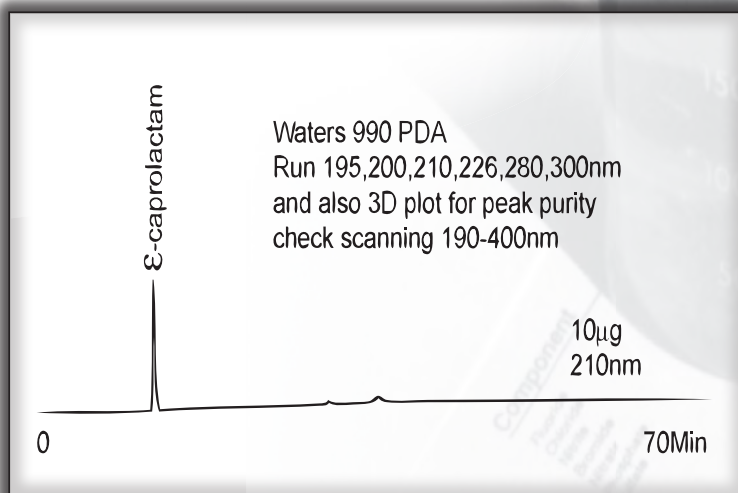


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# HPLC APPLICATION

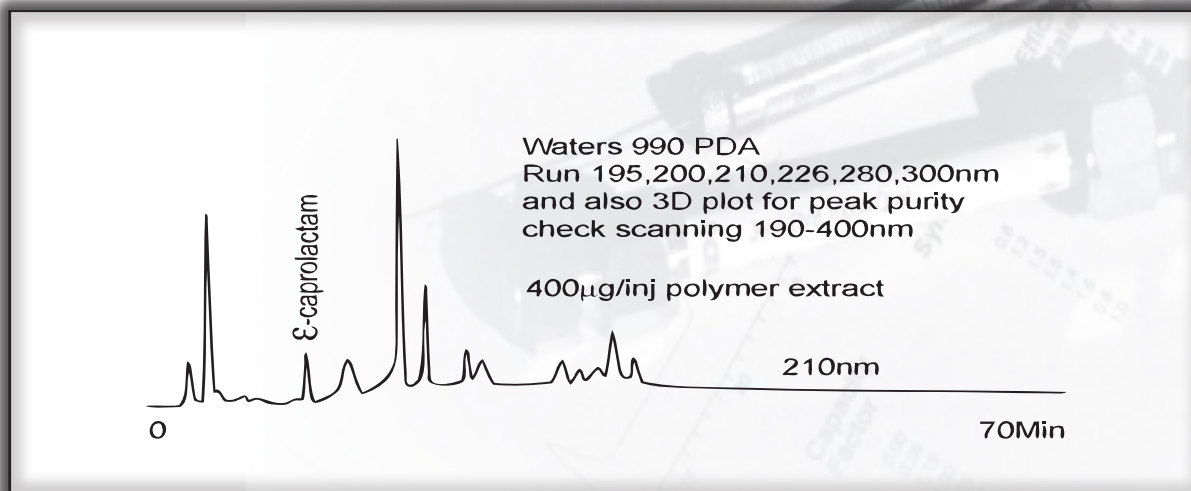
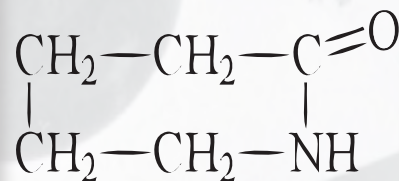
## NYLON 6 MONOMER ANALYSIS

**Part Number:** 16508  
**Packing:** Jordi DVB Reverse Phase10<sup>3</sup>Å  
**Column:** 25cm X 4.6mm ID  
**Gradient:** 10/90 → 100/0 CH<sub>3</sub>CN/H<sub>2</sub>O  
 Linear over 30 min.  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL of 10mg/mL extract  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA, see  
 curve detail for conditions



NYLON SPOON EXTRACT

**ε-caprolactam**





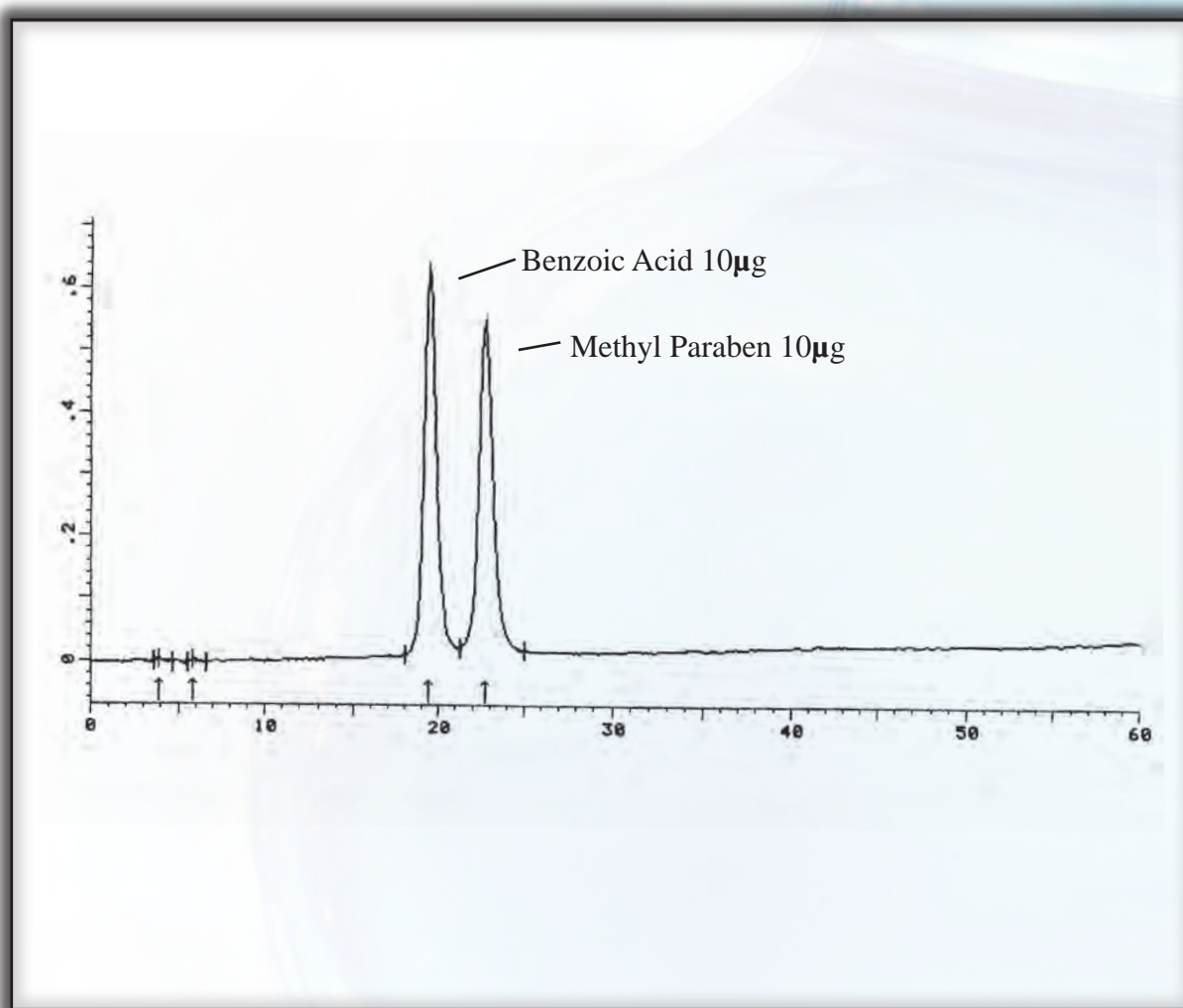


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# HPLC APPLICATION

## BENZOIC ACID

**Part Number:** 16508  
**Packing:** Jordi Gel DVB  
**Column:** 1-250 X 4.6 mm 10<sup>3</sup> Å  
**Solvent:** 35/5/60 MeOH/THF/H<sub>2</sub>O+0.1% TFA  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Concentration:** 1 mg/mL Standards 10 µg/inj each Standard  
**Temperature:** 80°C  
**Detector:** Waters 990 PDA , 240 nm 0.6 AuFS



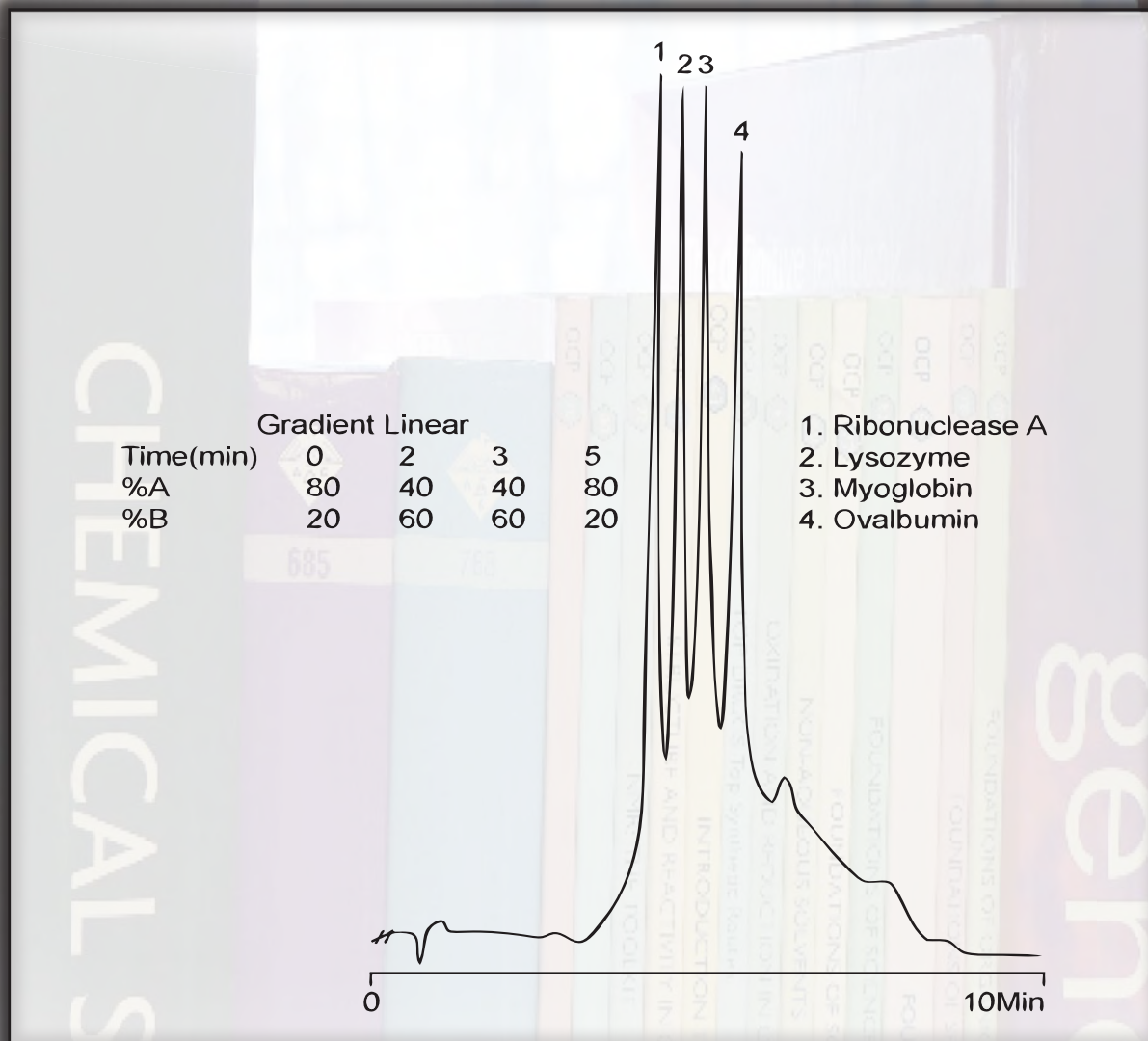


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# HPLC APPLICATION

## PROTEINS and ENZYMES

**Part Number:** 17020  
**Packing:** Jordi DVB Solid Bead  
**Column:** 10cm X 10mm ID  
**Solvent A:** 0.1% TFA in H<sub>2</sub>O  
**Solvent B:** 0.1% TFA in ACN  
**Flow Rate:** 3.0mL/min.  
**Injection:** 20µL  
**Temperature:** 25°C  
**Detector:** UV @215nm



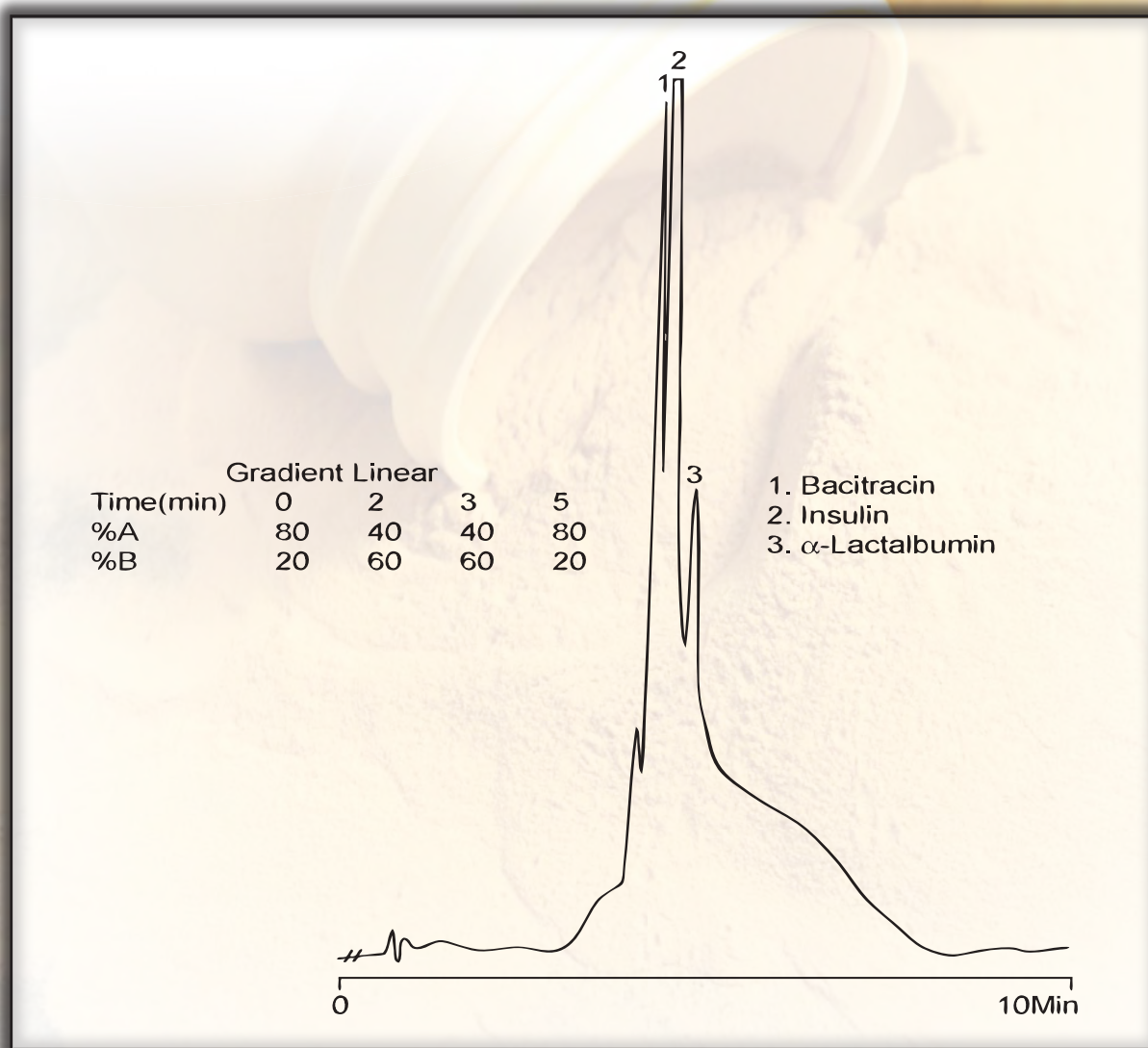


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# HPLC APPLICATION

## PROTEINS

**Part Number:** 17020  
**Packing:** Jordi DVB Solid Bead  
**Column:** 10cm X 10mm ID  
**Solvent A:** 0.1% TFA in H<sub>2</sub>O  
**Solvent B:** 0.1% TFA in ACN  
**Flow Rate:** 3.0mL/min.  
**Injection:** 50µL  
**Temperature:** 25°C  
**Detector:** UV @215nm





# Glucose DVB



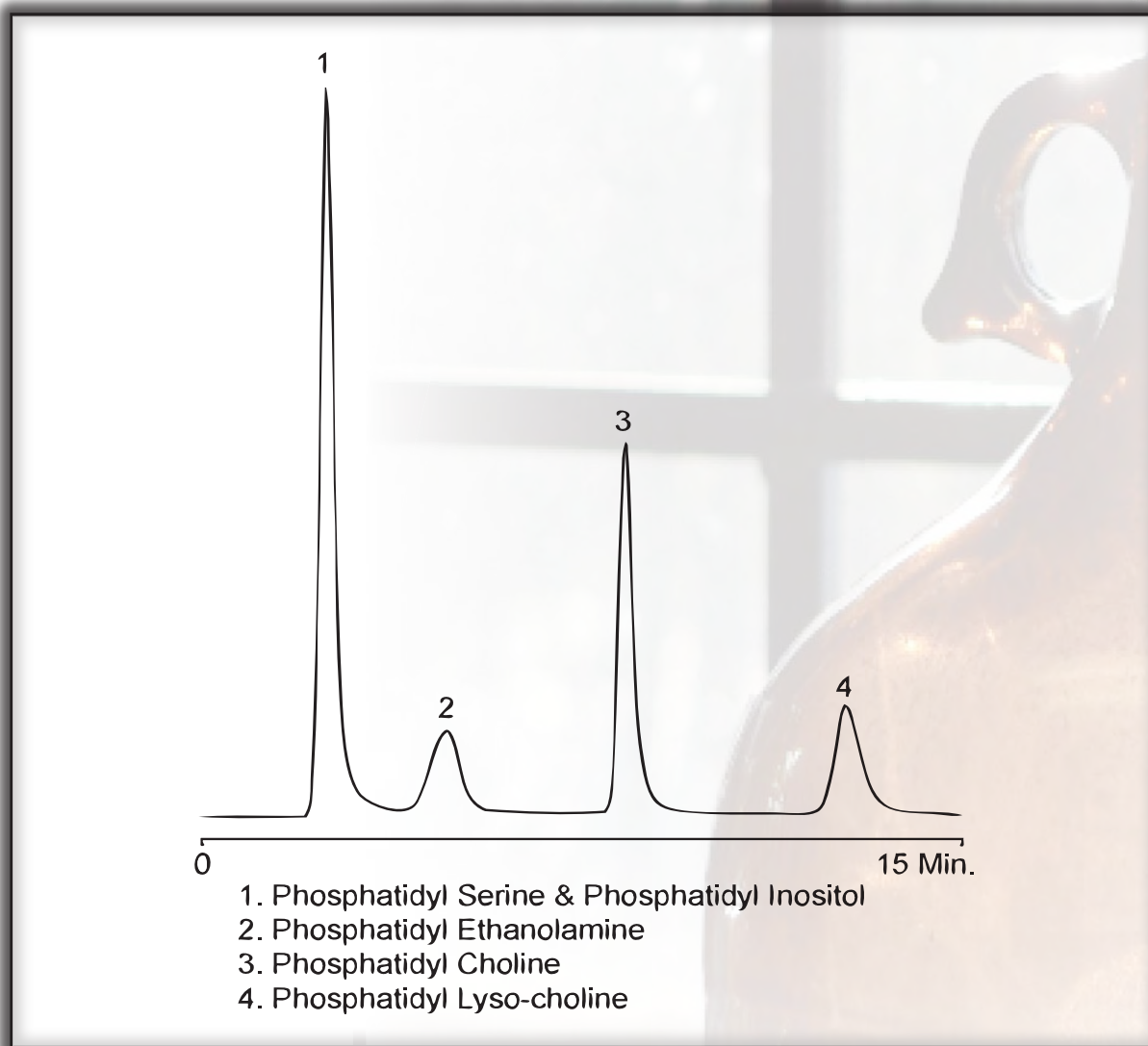


MATERIAL SOLUTIONS. UNCOMPROMISING INTEGRITY.

# HPLC APPLICATION

## PHOSPHOLIPID MIXTURE

**Part Number:** 15061  
**Packing:** Jordi DVB Glucose 500Å  
**Column:** 25cm X 10mm ID  
**Solvent:** 48/42/10 CHCl<sub>3</sub>/MeOH/H<sub>2</sub>O w/0.2% NH<sub>4</sub>OH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 2μL of 2mg/mL solution  
**Temperature:** 25°C  
**Detector:** Evaporative Light Scattering, Varex IIA





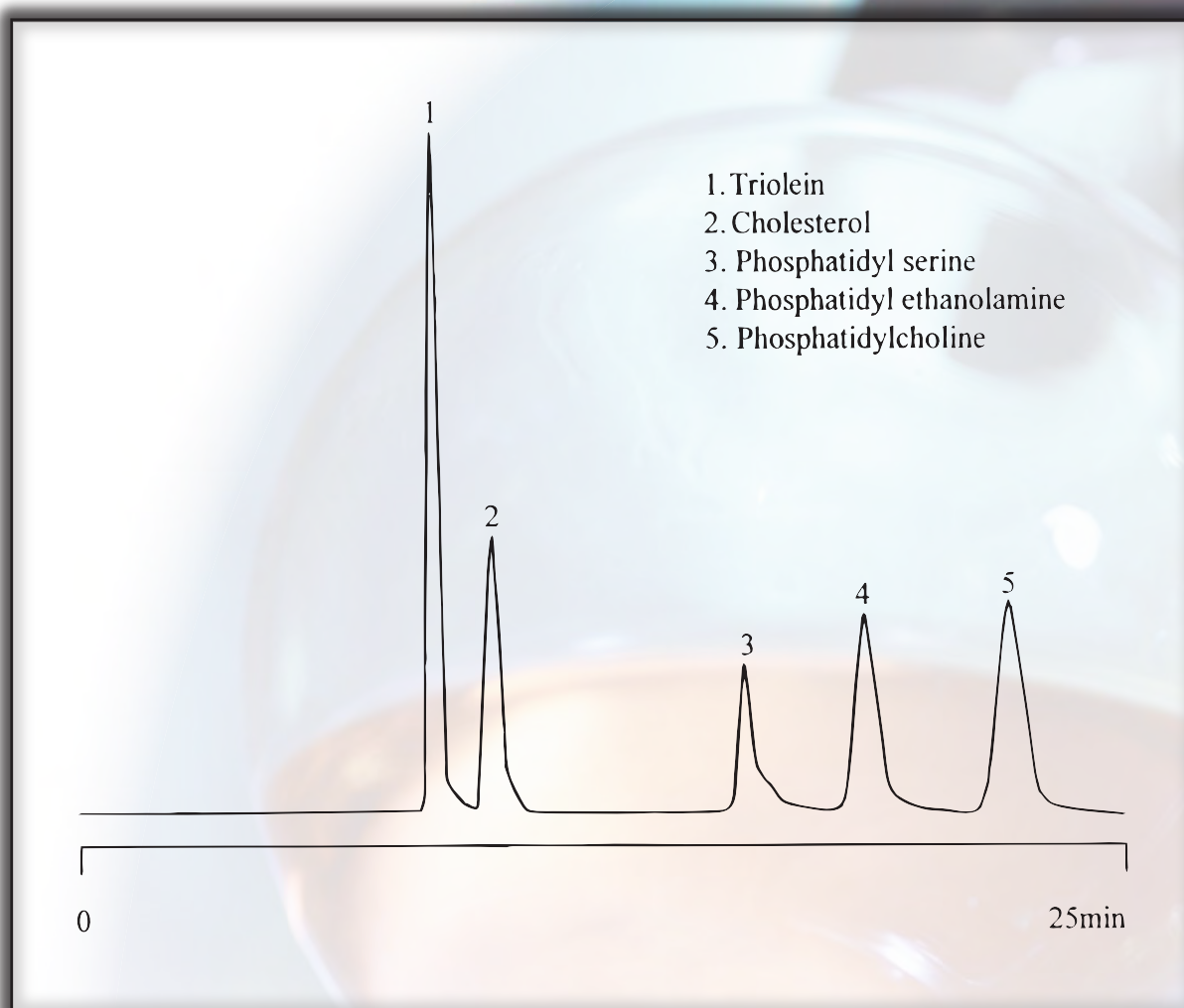


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# HPLC APPLICATION

## LIPIDS and A TRIGLYCERIDE

**Part Number:** 18610  
**Packing:** Jordi DVB Glucose NP 500Å  
**Column:** 25cm X 10mm ID  
**Mobile Phase:** 50/43/7 Chloroform/Methanol/0.15% TFA in H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** N/A  
**Concentration:** N/A  
**Temperature:** Ambient  
**Detector:** ELSD MKIII, Drift Tube Temp. 80°C with Nitrogen @ 2.20 SLPM





# Hydroxylate DVB





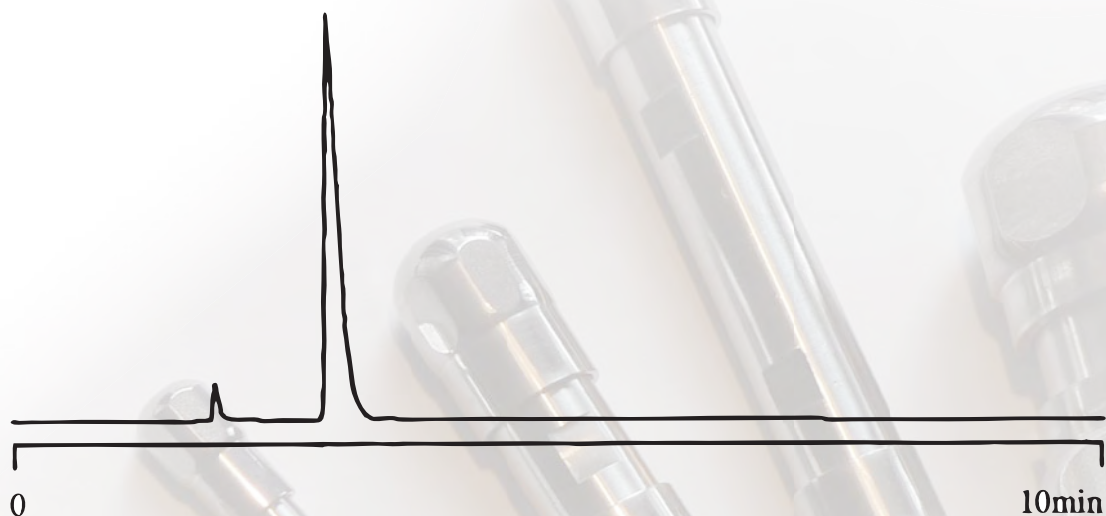
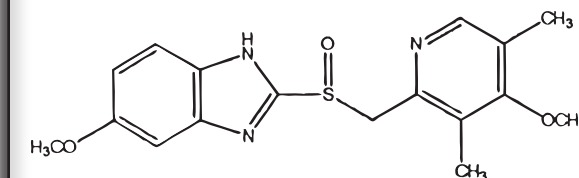


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# HPLC APPLICATION

## ANTIULCERATIVE OMEPRAZOLE

**Part Number:** 21000  
**Packing:** Jordi DVB Hydroxylated RP 500Å  
**Column:** 15cm X 4.6mm ID  
**Mobile Phase:** 10/20/20/50 MeOH/ACN/THF/H<sub>2</sub>O  
**Flow Rate:** 1.0mL/min.  
**Injection:** 5.0µL  
**Concentration:** 1mg/mL  
**Temperature:** 50°C  
**Detector:** UV @254nm, 1.0AUFS



Peak	Retention Time(min)	Capacity Factor	Symmetry	Efficiency (Plates/m)
1	2.92	0.00	1.8	16232



# Organic Acid

## DVB





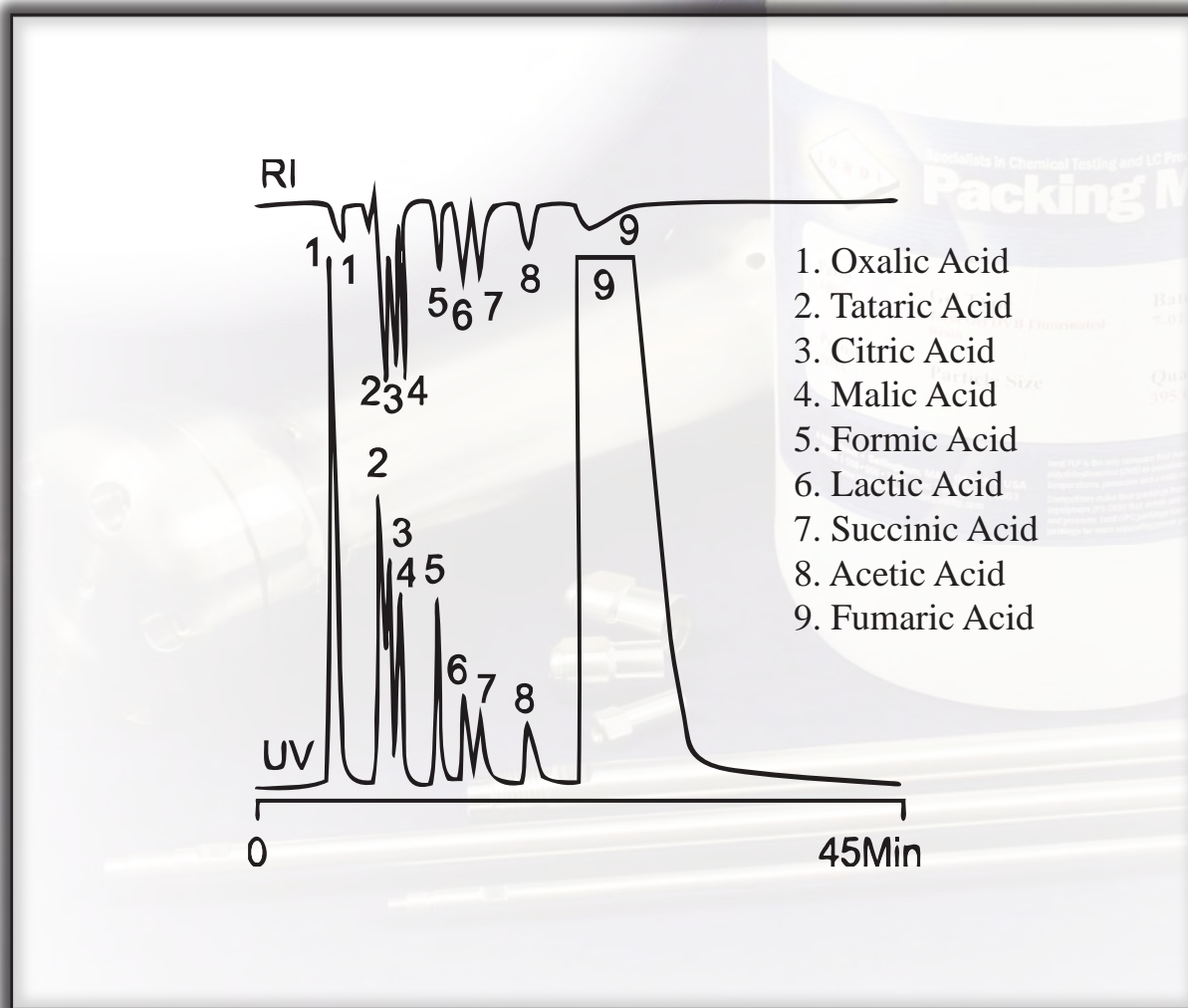


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# HPLC APPLICATION

## SEPARATION of ORGANIC ACIDS

**Part Number:** 17000  
**Packing:** Jordi DVB Organic Acid 500Å  
**Column:** 50cm X 10mm ID  
**Solvent :** 0.01M Phosphoric Acid, pH 3 w/NaOH  
**Flow Rate:** 1.5mL/min.  
**Injection:** 200µL  
**Concentration:** 10mg/mL  
**Temperature:** Ambient  
**Detector:** UV -210nm, RI @4X





# Polyamino DVB





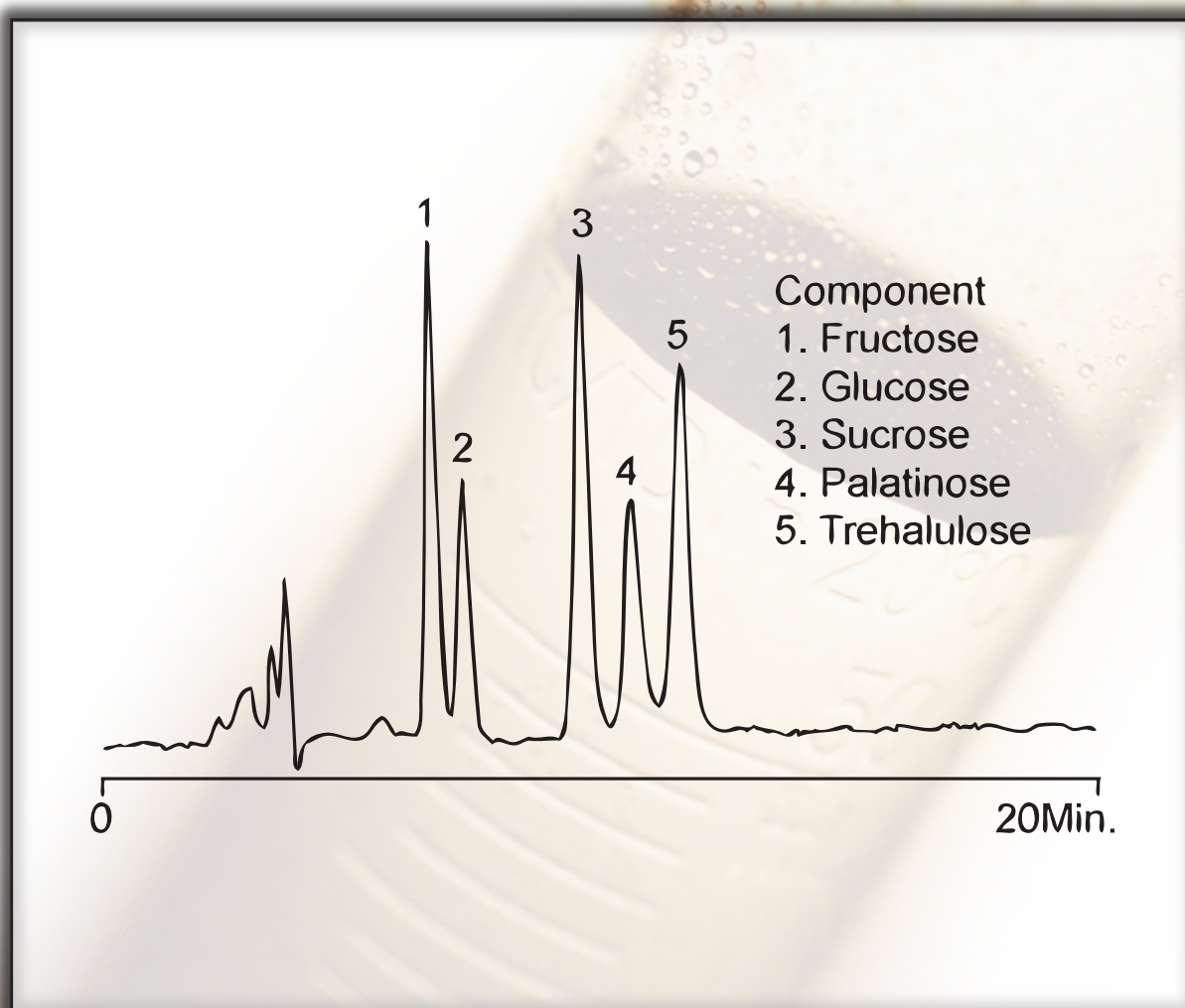


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# HPLC APPLICATION

## SUGAR STANDARDS

**Part Number:** 17010  
**Packing:** Jordi DVB Polyamino 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 80/15/5 ACN/H<sub>2</sub>O/MeOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** 2mg/mL  
**Temperature:** Ambient  
**Detector:** RI





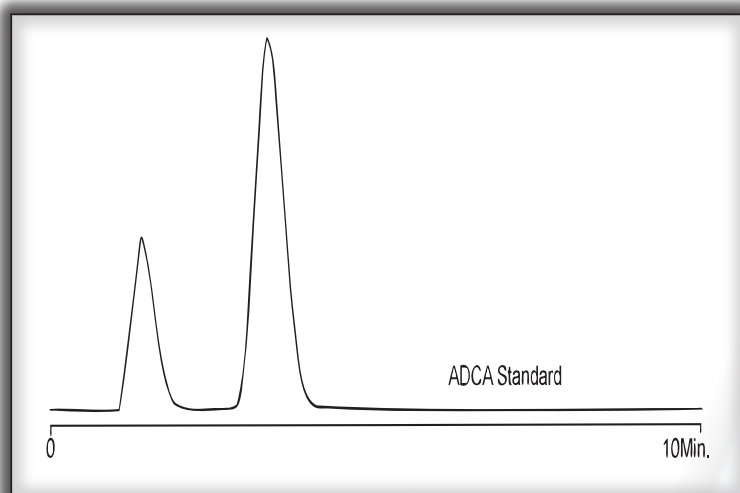


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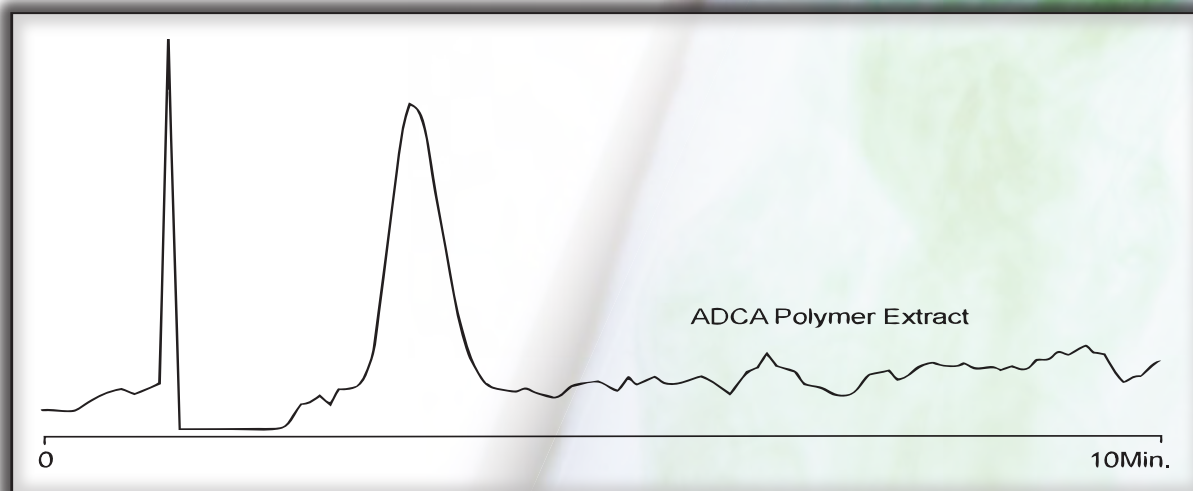
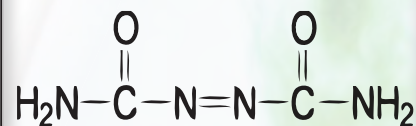
# HPLC APPLICATION

## AZODICARBONAMIDE

**Part Number:** 60055  
**Packing:** Jordi DVB Polyamino RP 500Å  
**Column:** 5.3cm X 7mm ID  
**Solvent:** 90/10 H<sub>2</sub>O/DMSO  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL  
**Concentration:** 1mg/mL  
**Temperature:** Ambient  
**Detector:** Waters 990 PDA, 265nm



ADCA



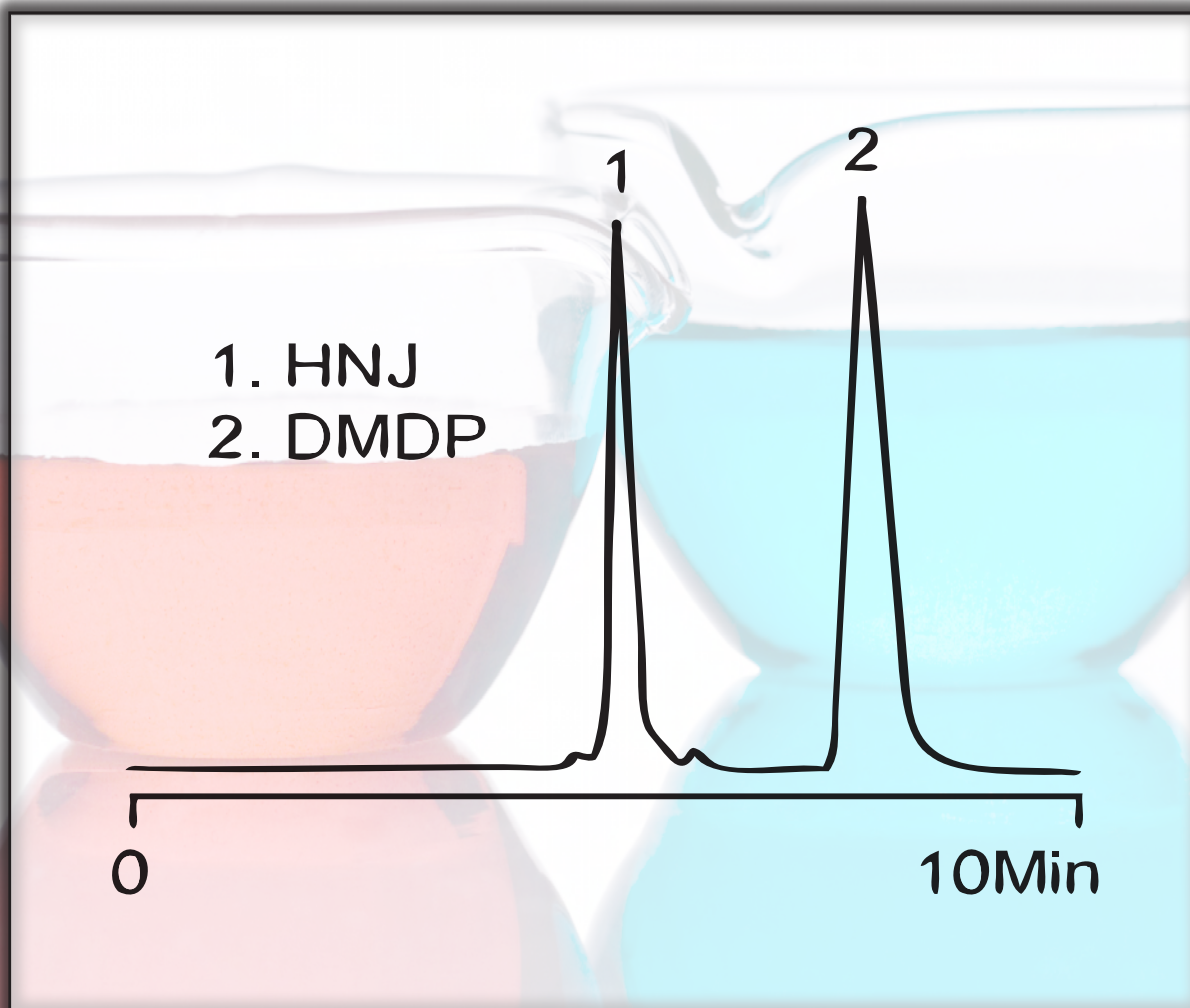


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# HPLC APPLICATION

## POLYHYDROXY ALKALOIDS

**Part Number:** 17051  
**Packing:** Jordi NP Polyamino 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent A:** Acetonitrile:0.2%(w/v)  
**Solvent B:** Ammonium Acetate in H<sub>2</sub>O(15:85)  
**Flow Rate:** 0.5mL/min.  
**Injection:** 5µg HNJ  
6.25µg DMDP  
**Temperature:** Ambient  
**Detector:** ELSD MKIII



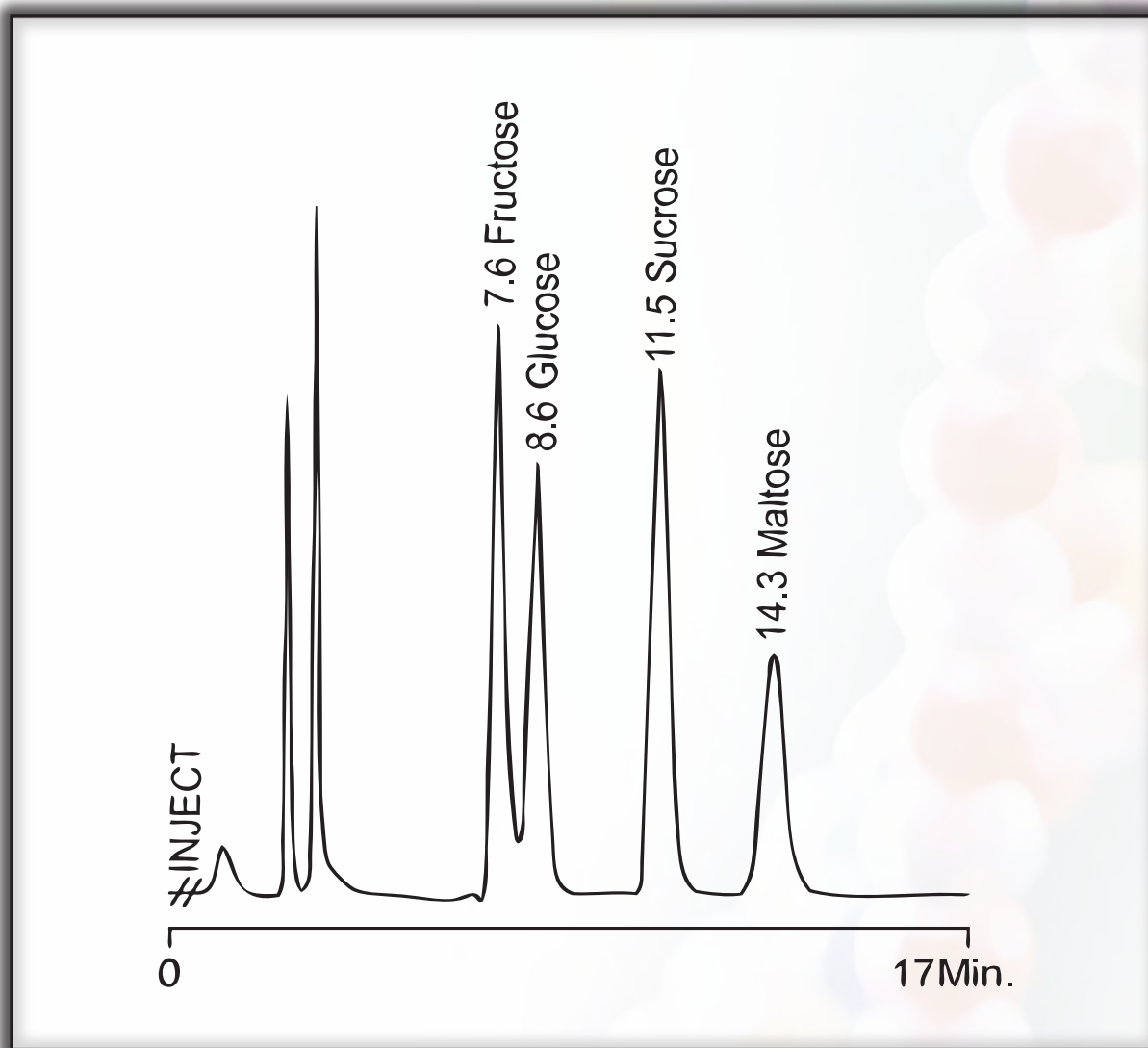


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# HPLC APPLICATION

## SUGAR STANDARDS

**Part Number:** 17010  
**Packing:** Jordi DVB Polyamino 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 75/20/5 ACN/H<sub>2</sub>O/MeOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 10µL of 2% Concentration  
**Det. Temperature:** 30°C  
**Detector:** RI,4X





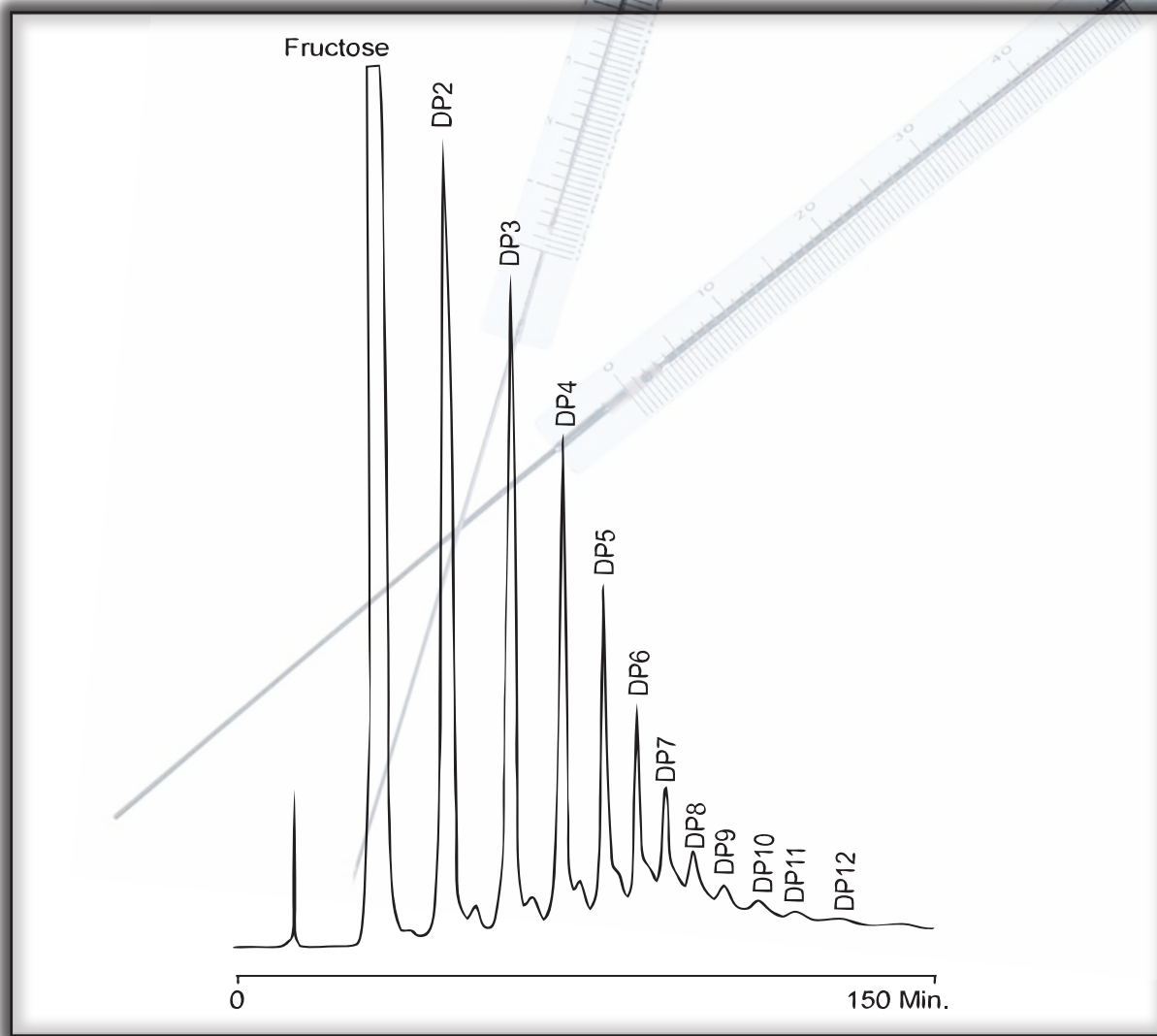


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# HPLC APPLICATION

CORN SYRUP by Gradient Elution

**Part Number:** 17010  
**Packing:** Jordi DVB Polyamino 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent A:** 85/15 ACN/H<sub>2</sub>O  
**Solvent B:** H<sub>2</sub>O  
**Gradient:** 15 min Linear, 0%B to 21%B  
**Flow Rate:** 1.0mL/min.  
**Injection:** 100µL of 1% Concentration  
**Temperature:** 25°C  
**Detector:** Evaporative Light Scattering, Varex ELSD II @ 100X



# Peptide Protein DVB





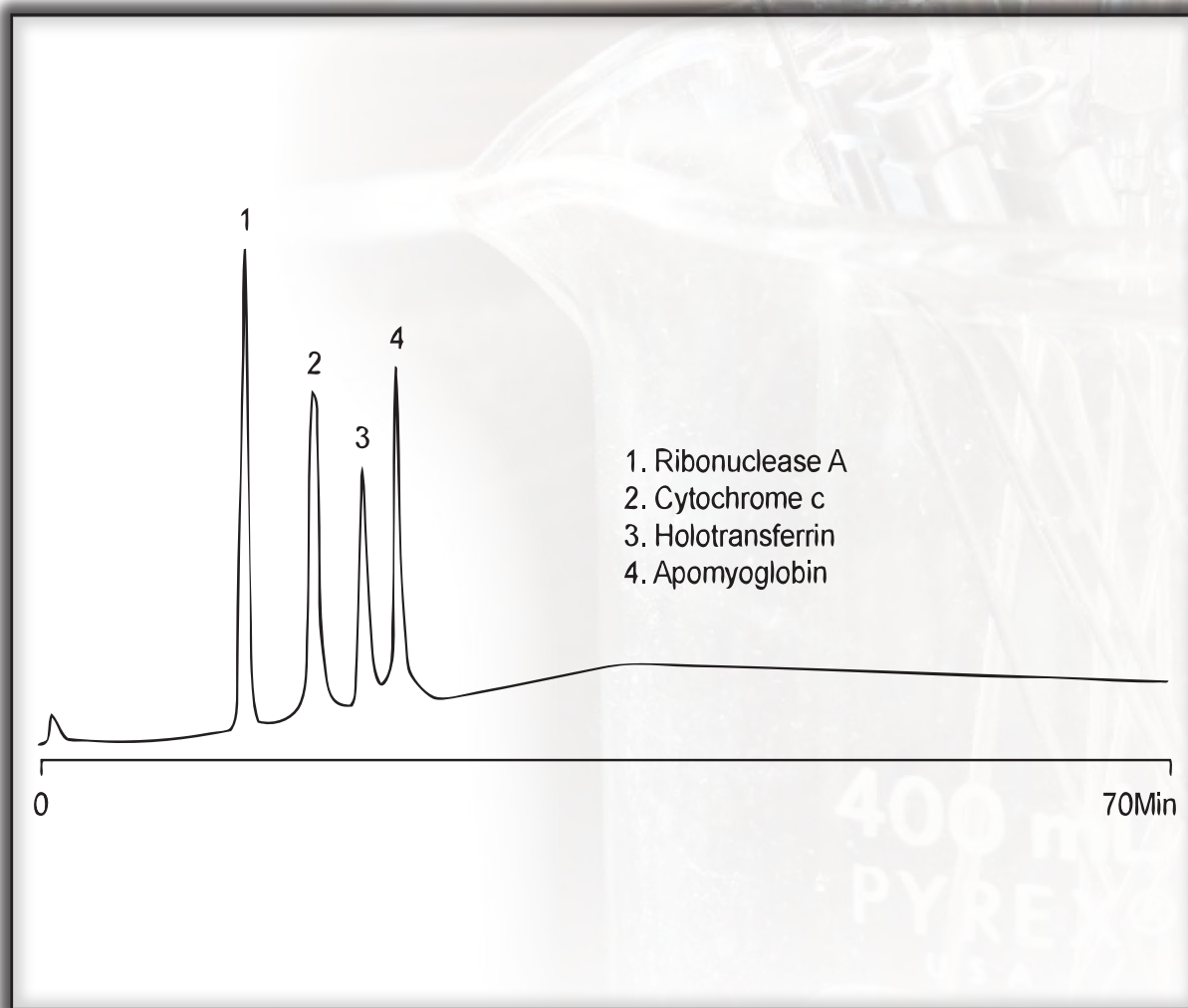


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide/Protein 10<sup>3</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 30 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Stds. diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** Waters 990, 220nm







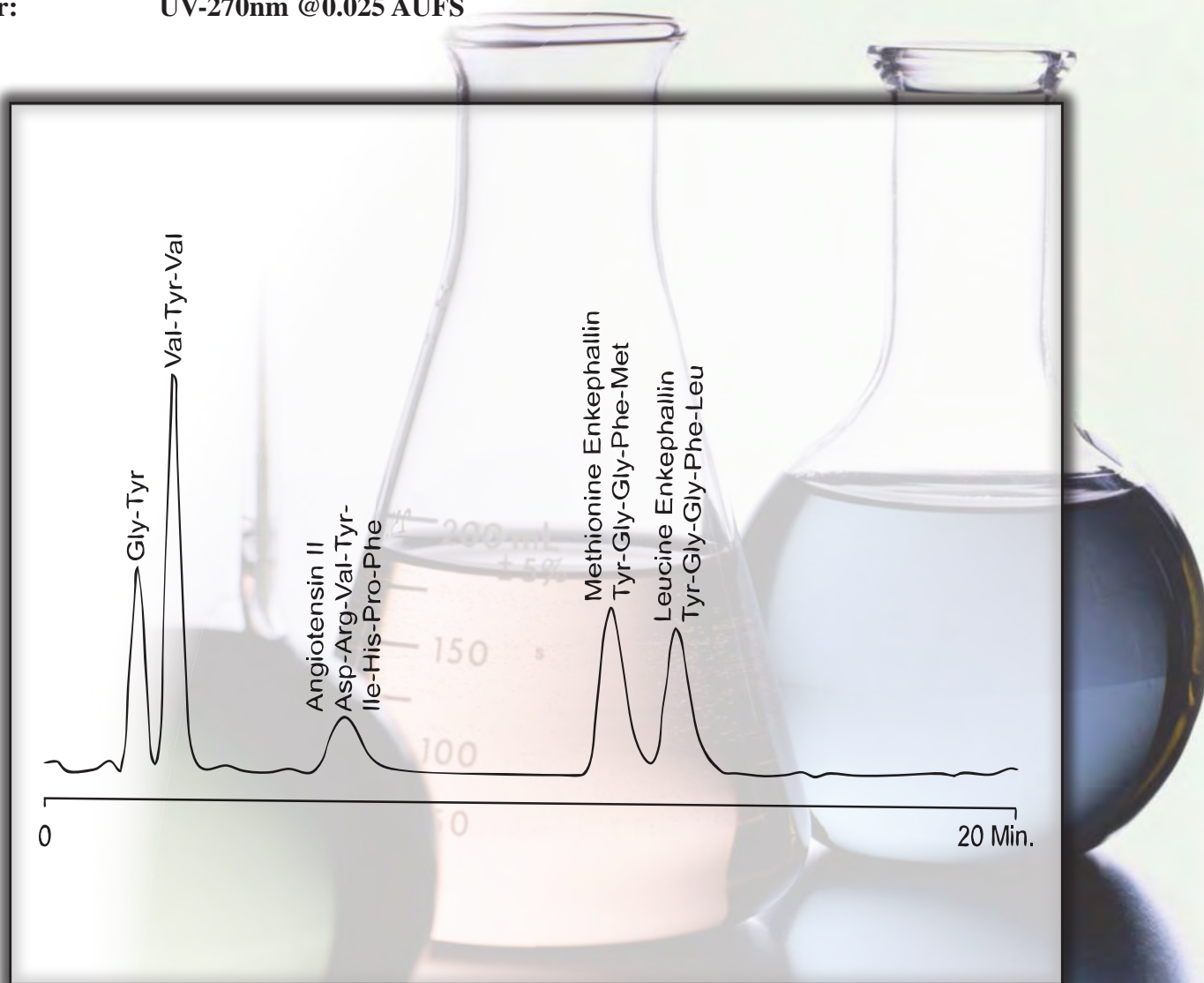
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# HPLC APPLICATION

## JORDI PEPTIDE PROTEIN

### Polyamide Co-Polymer 5 Peptide Standards

**Part Number:** 60060  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5.3cm X 7mm ID  
**Solvent:** 90/10 → 60/40 A/B over 30 min. Linear  
A: 99/1 H<sub>2</sub>O/Acetic Acid B: 99/1 ACN/Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40μL  
**Concentration:** HPLC Pesticide Standards diluted to 4mL in 99/1/H<sub>2</sub>O/Acetic Acid  
**Temperature:** Ambient  
**Detector:** UV-270nm @0.025 AUFS



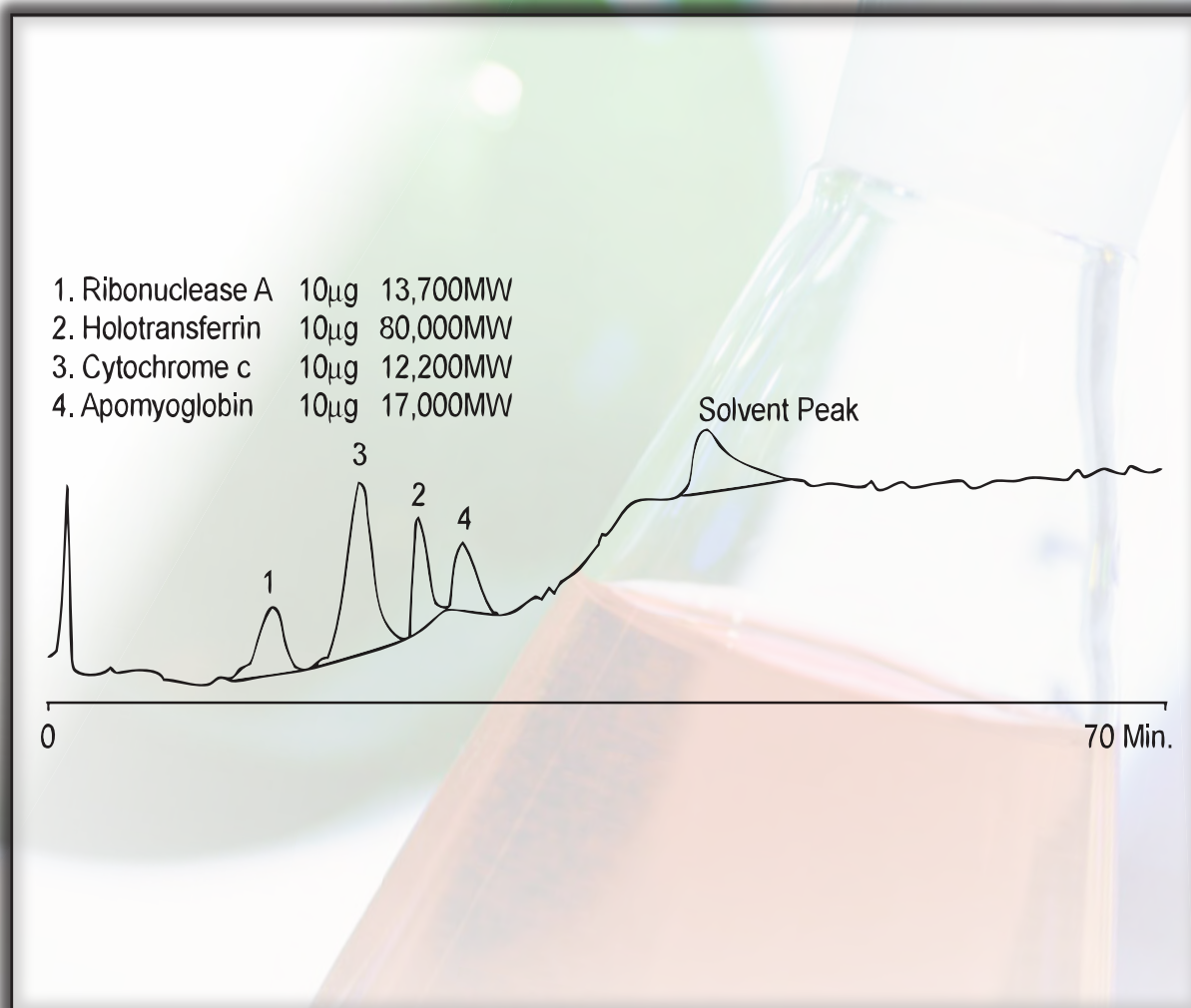


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 90/10 → 60/40 A/B over 30 min. linear  
**Solvent A:** 98/2 H<sub>2</sub>O/Acetic Acid  
**Solvent B:** 98/2 ACN/Acetic Acid  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Standards diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** UV-270nm @ 0.01 AUFS



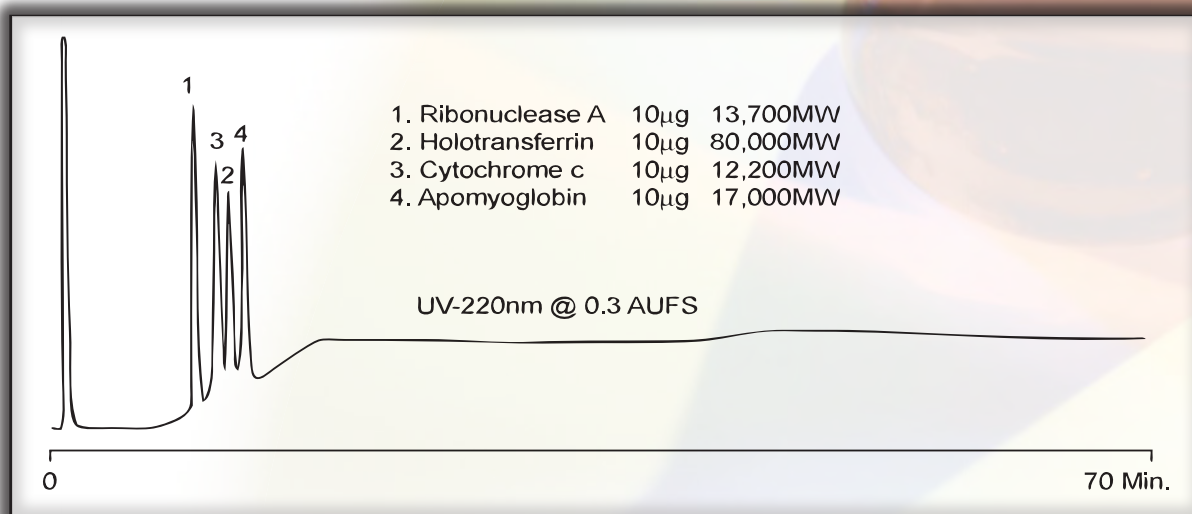
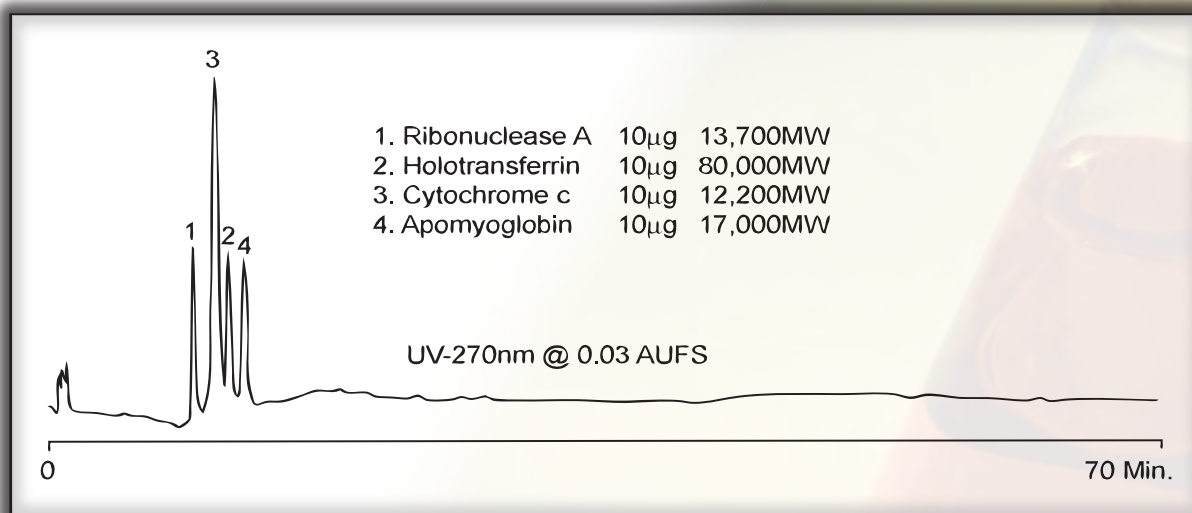


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Standards diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** UV (see curve for details)





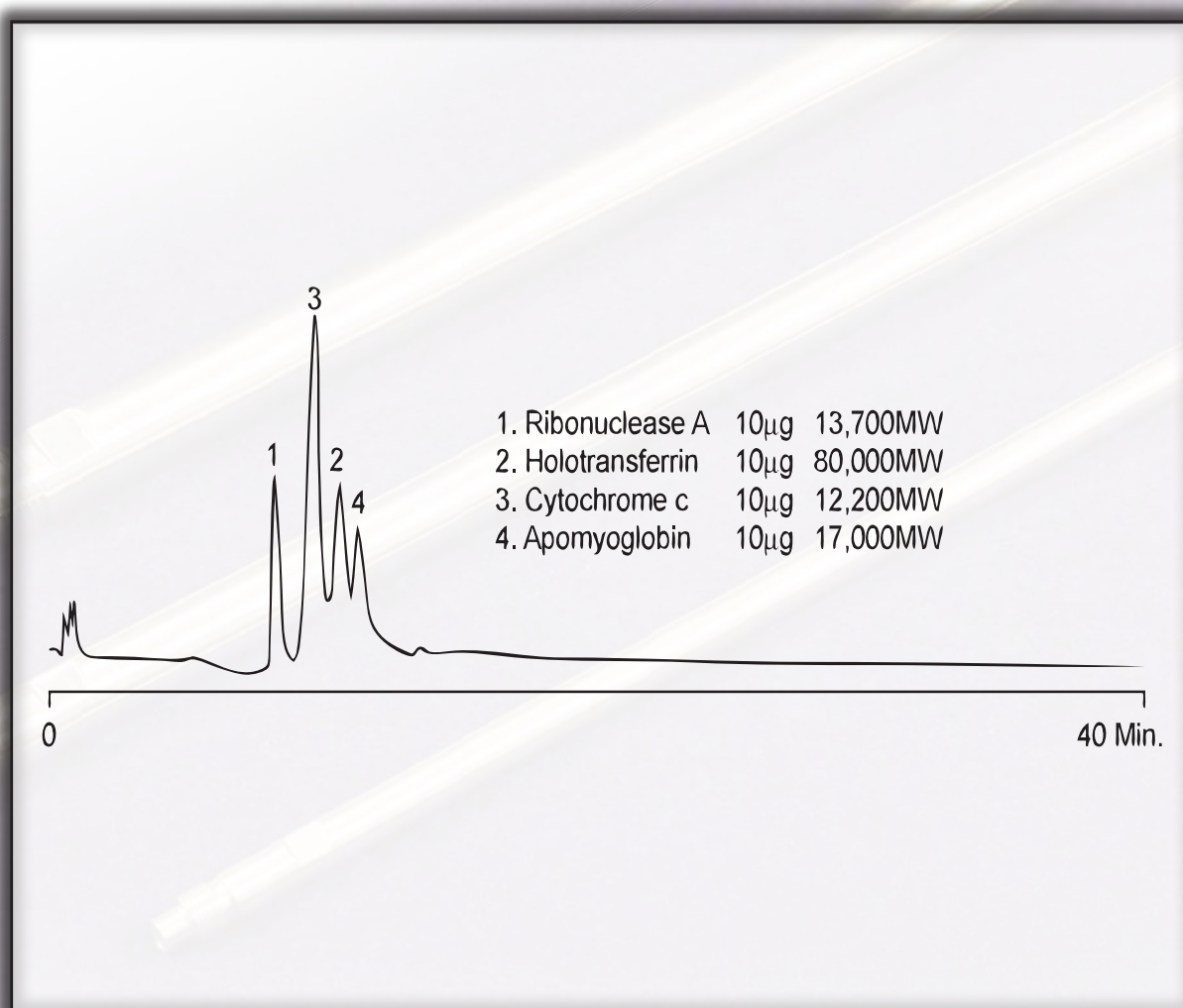


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Standards diluted to 4mL in  
75/25 A/B  
**Temperature:** Ambient  
**Detector:** UV-270nm @0.03AUFS



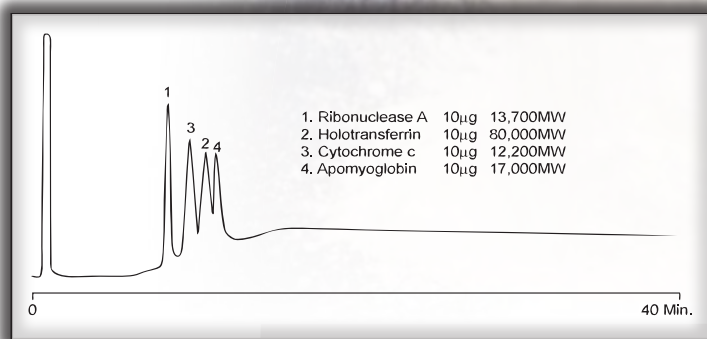
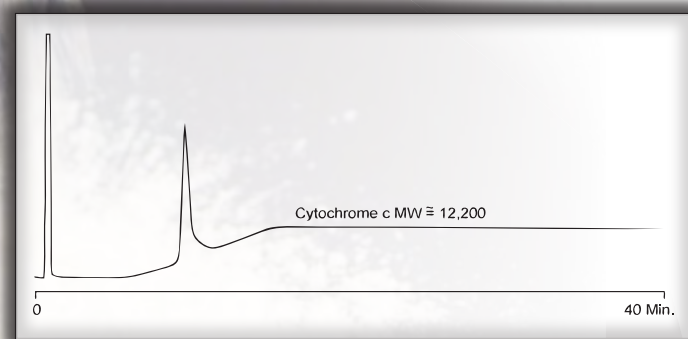
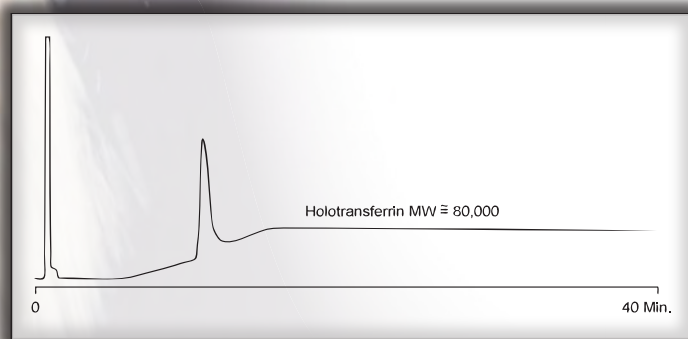
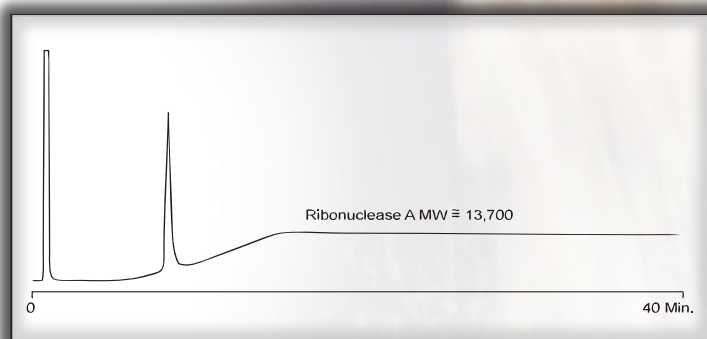


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** 0.1mg/mL  
**Temperature:** Ambient  
**Detector:** UV-220nm @0.3AUFS



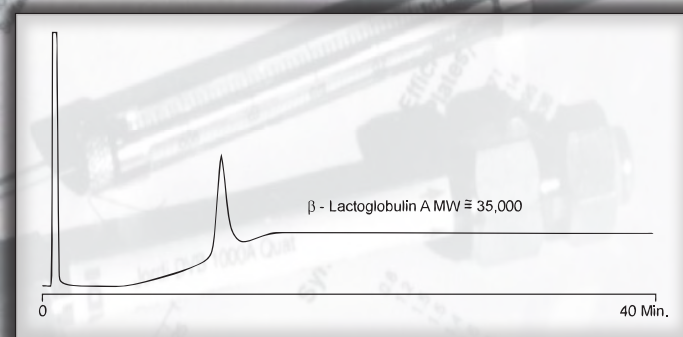
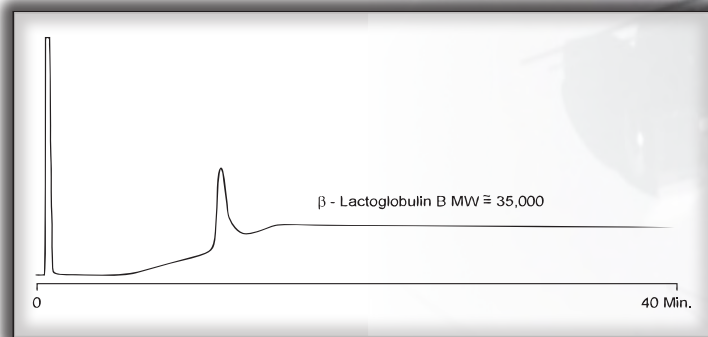
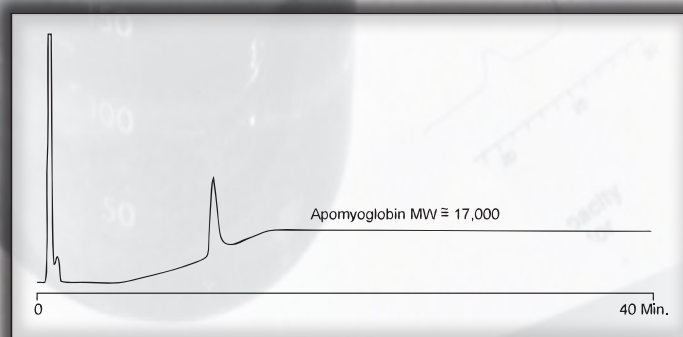
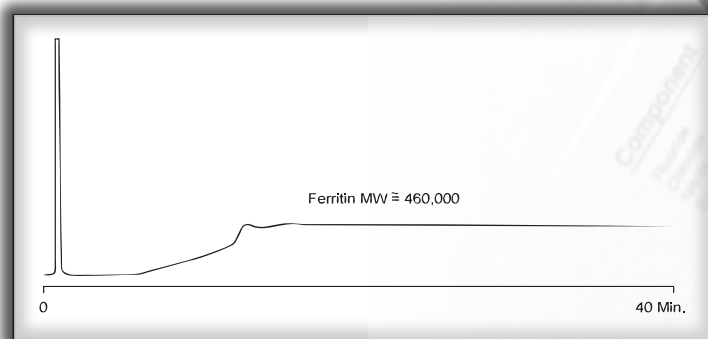


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** 0.1mg/mL  
**Temperature:** Ambient  
**Detector:** UV-220nm@ 0.3AUFS





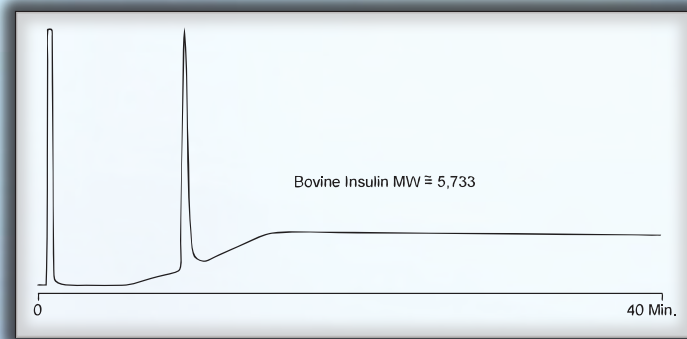
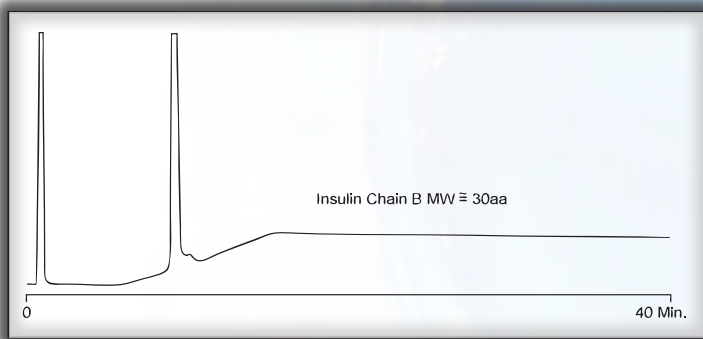
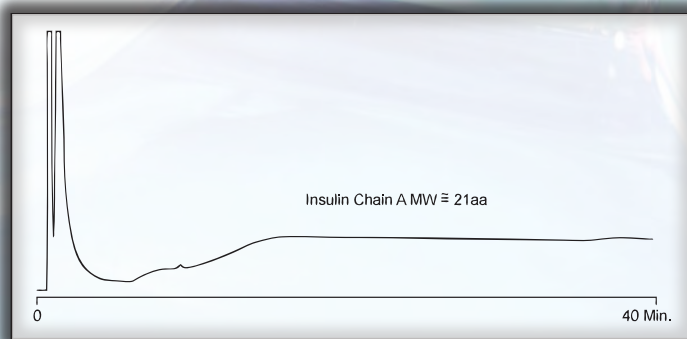
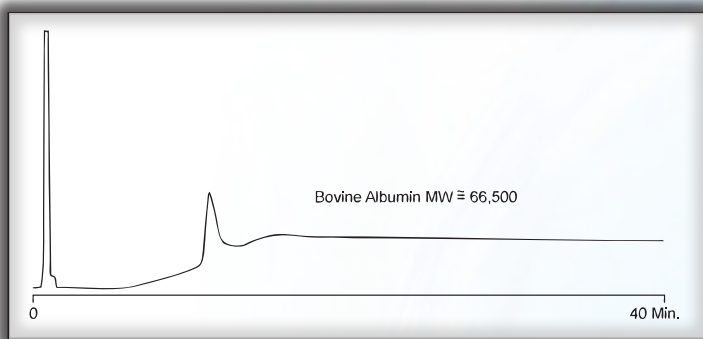


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** 0.1mg/mL  
**Temperature:** Ambient  
**Detector:** UV-220nm@ 0.3AUFS



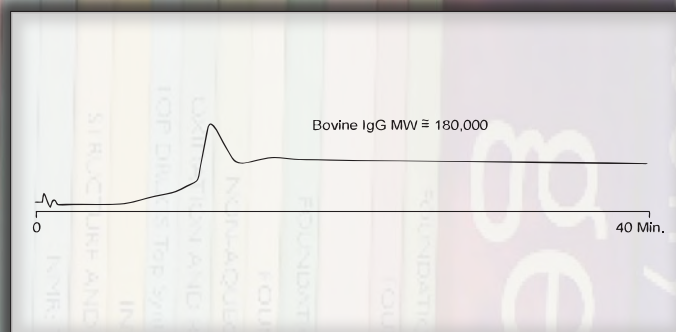
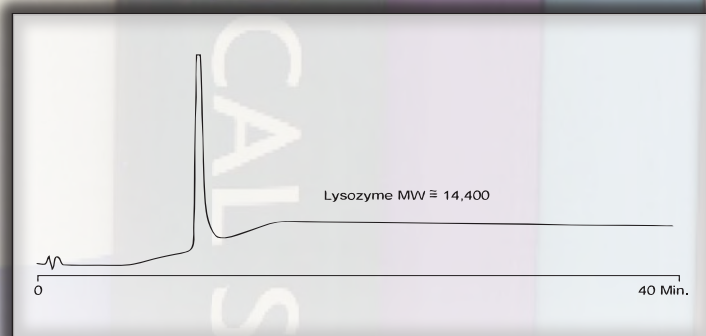
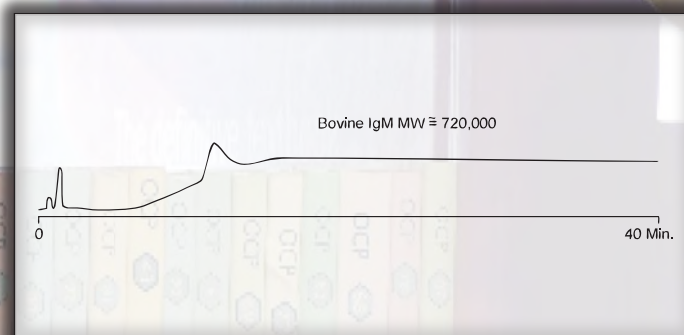
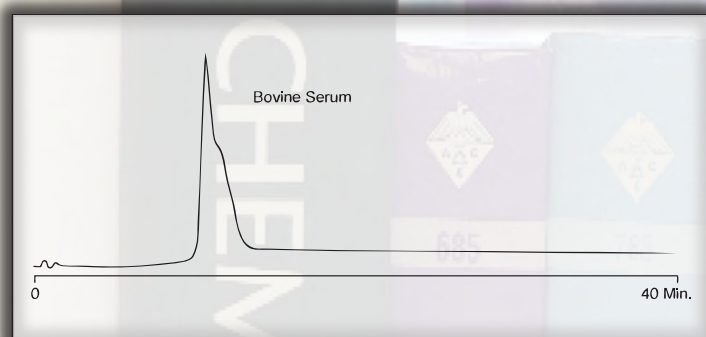


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 10 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** 0.1mg/mL  
**Temperature:** Ambient  
**Detector:** UV-220nm@ 0.3AUFS



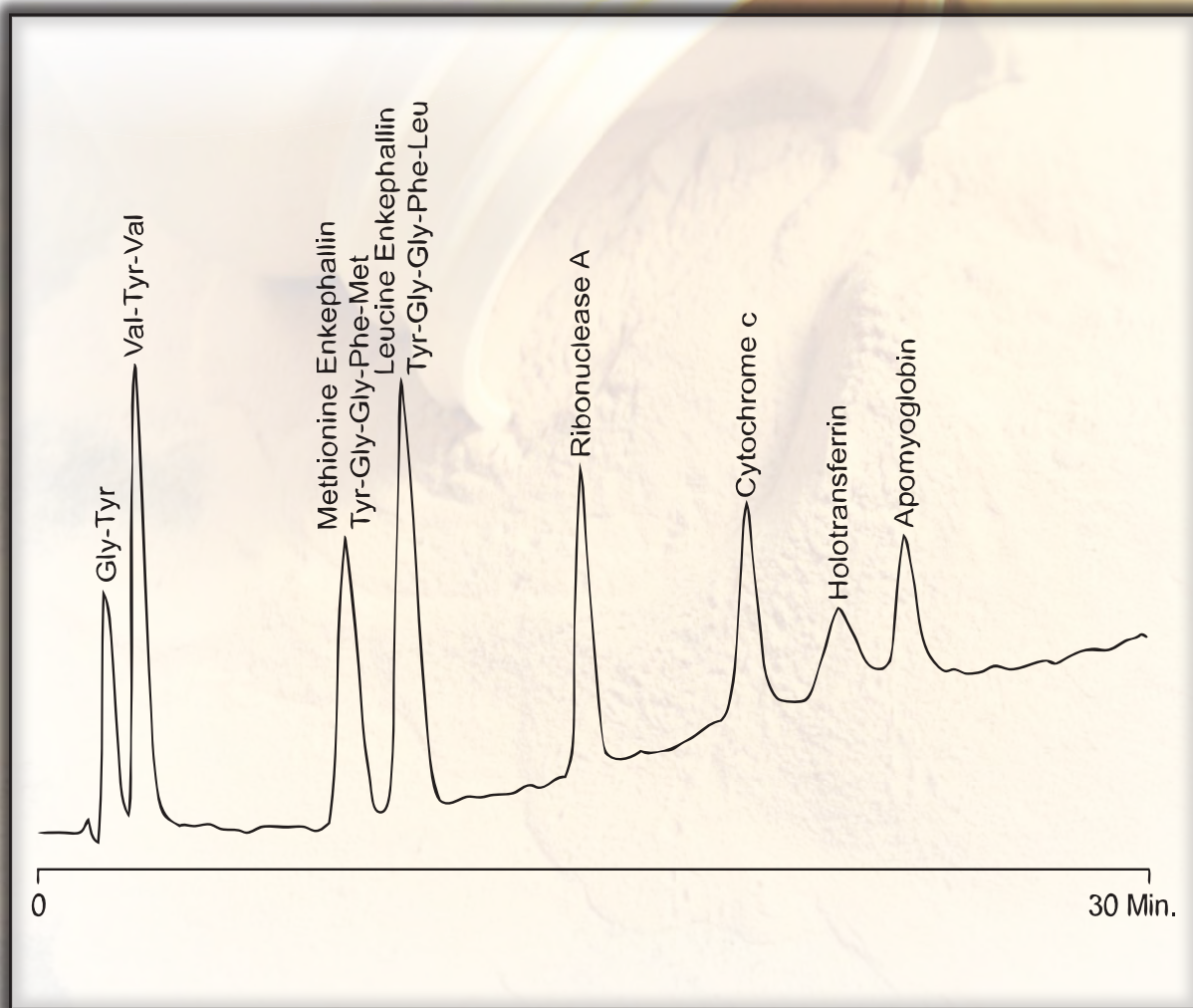


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# HPLC APPLICATION

## PEPTIDE PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 2-5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 30 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL Protein Standard Mix  
40µL HPLC Peptide Standard Mix  
**Concentration:** Protein Standards diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** N/A





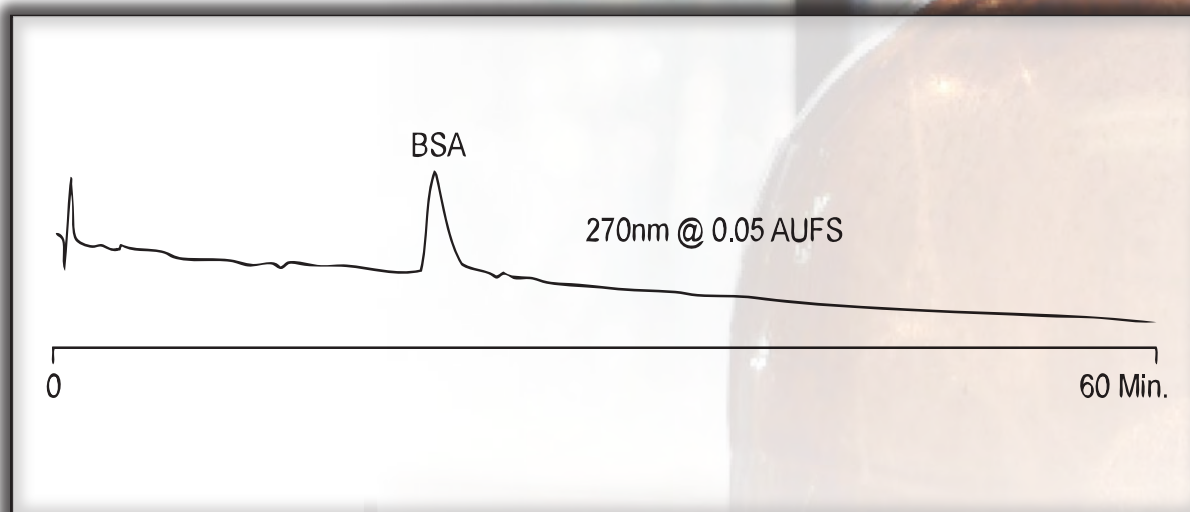
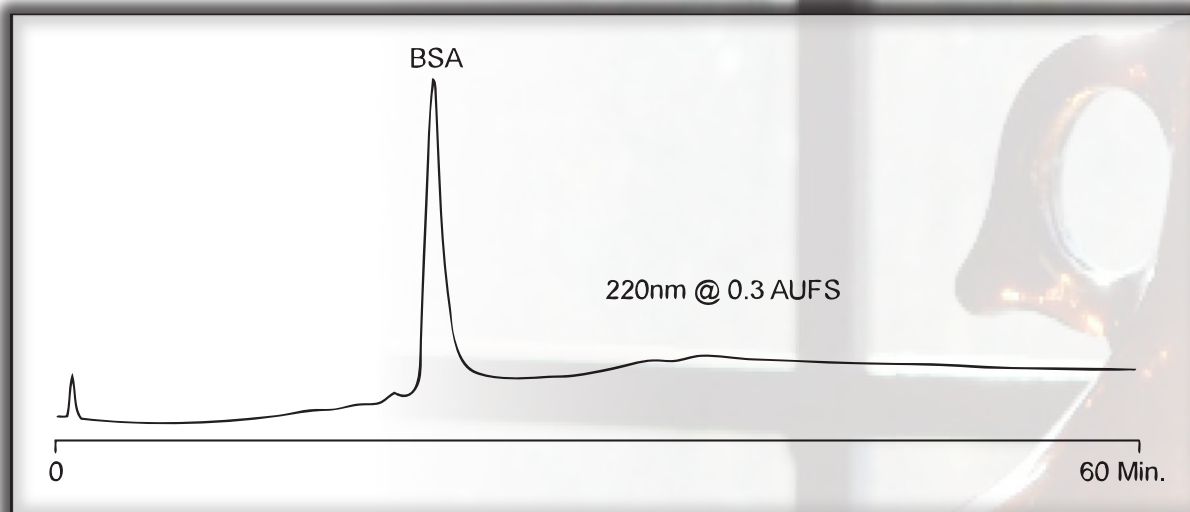


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# HPLC APPLICATION

## BOVINE SERUM ALBUMIN

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 30 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Standards Diluted to 4mL in 75/25 A/B @ 1mg/mL  
**Temperature:** Ambient  
**Detector:** UV-270nm @ 0.05AUFS UV-220nm @ 0.3AUFS



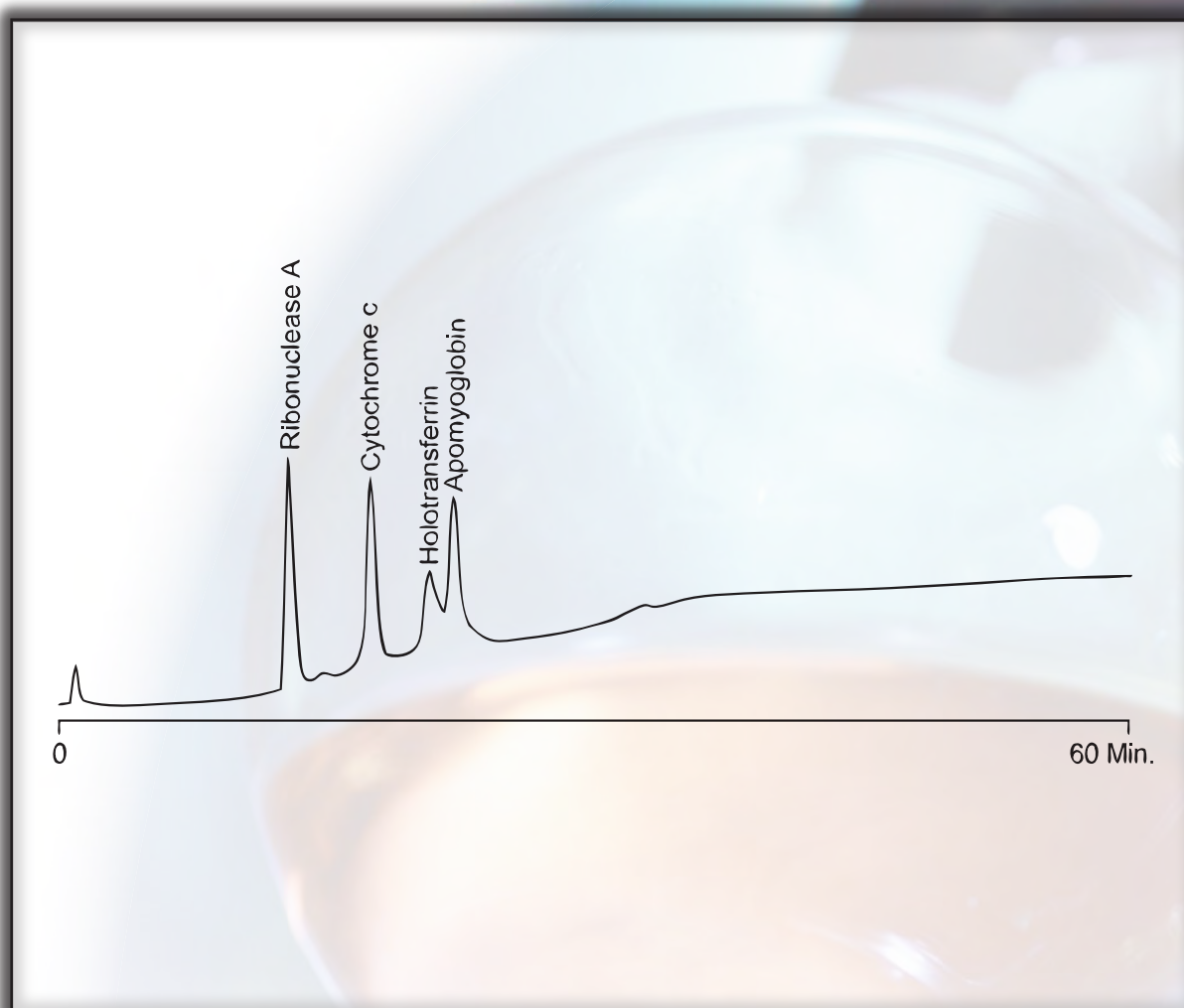


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# HPLC APPLICATION

## PROTEIN STANDARDS MIX

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 30 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40µL  
**Concentration:** Protein Standards Diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** UV-270nm @ 0.03AUFS  
UV-220nm @ 0.3AUFS



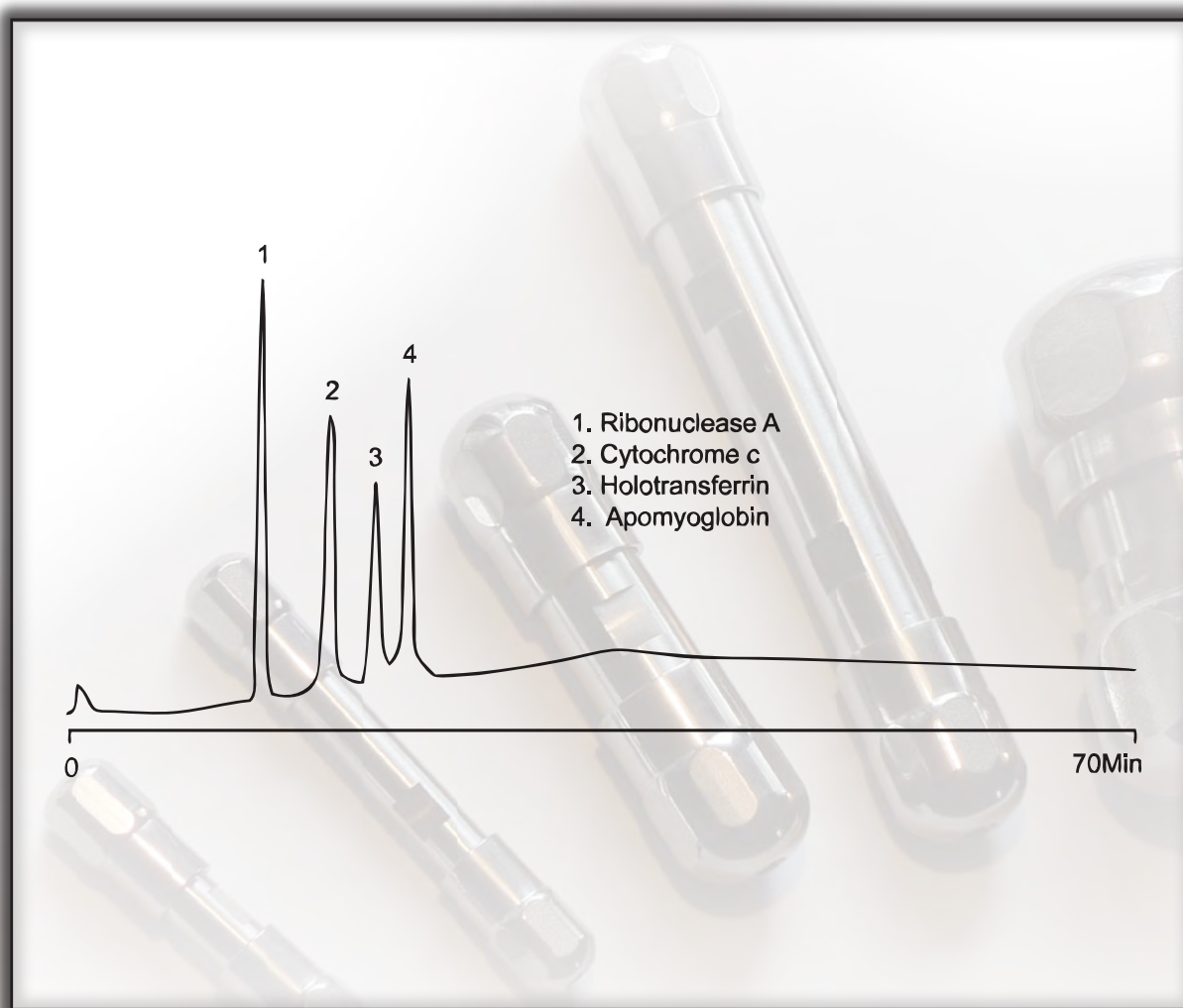


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# HPLC APPLICATION

## PROTEIN STANDARD SEPARATION

**Part Number:** 10001  
**Packing:** Jordi Peptide Protein 10<sup>4</sup>Å  
**Column:** 5cm X 4.6mm ID  
**Gradient:** 80/20 → 40/60 A/B over 30 min. linear  
**Solvent A:** 0.15% TFA in H<sub>2</sub>O  
**Solvent B:** 0.15% TFA in ACN  
**Flow Rate:** 1.0mL/min.  
**Injection:** 40μL  
**Concentration:** Protein Standards Diluted to 4mL in 75/25 A/B  
**Temperature:** Ambient  
**Detector:** UV-220nm, 0.5 AUFS





# Sulfonated DVB



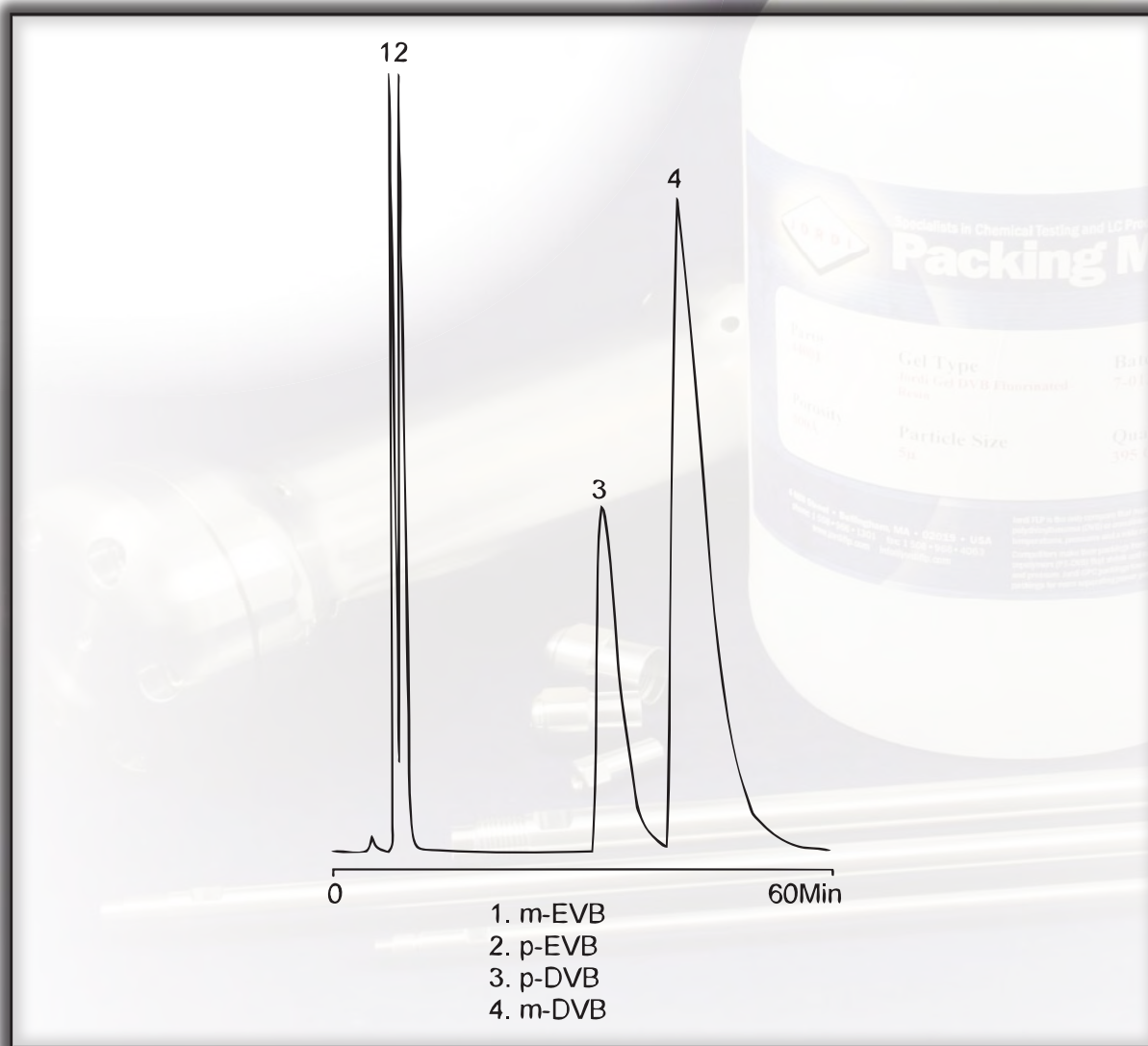


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# HPLC APPLICATION

## DIVINYLBENZENE

**Part Number:** 15252  
**Packing:** Jordi DVB Sulfonated 500Å in Ag<sup>+</sup> form  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 85/15 CHCl<sub>3</sub>/MeOH  
**Flow Rate:** 0.7mL/min.  
**Injection:** 3µL  
**Temperature:** 25°C  
**Detector:** UV @260nm, 1.6AUFS





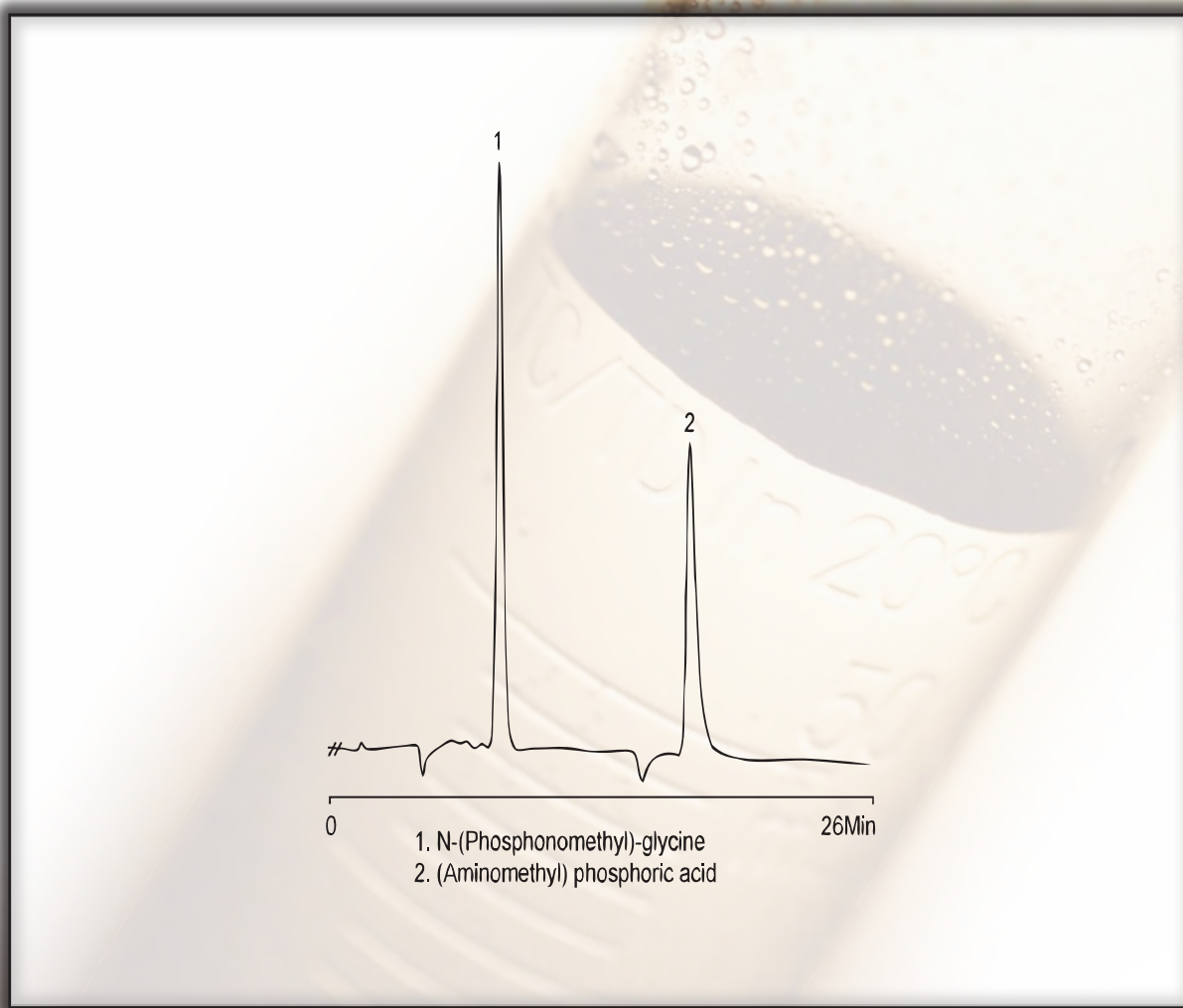
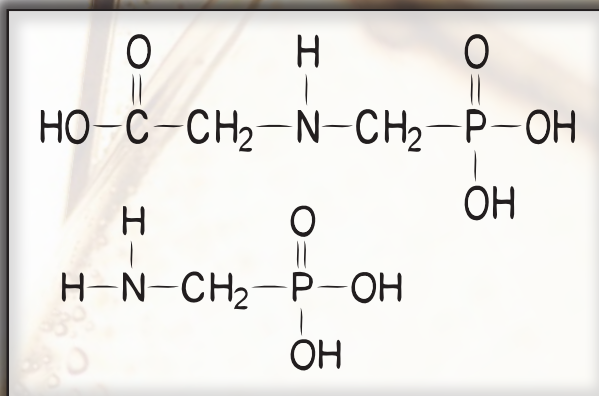


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# HPLC APPLICATION

## PHOSPHORIC COMPOUNDS

**Part Number:** 15254  
**Packing:** Jordi DVB Sulfonated 500Å  
**Column:** 25cm X 4.6mm ID  
**Solvent:** 0.02M Phosphoric Acid w/3%ACN  
 pH 2.5w/ NaOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 50µL of 1mg/mL Solution  
**Temperature:** 25°C  
**Detector:** RI





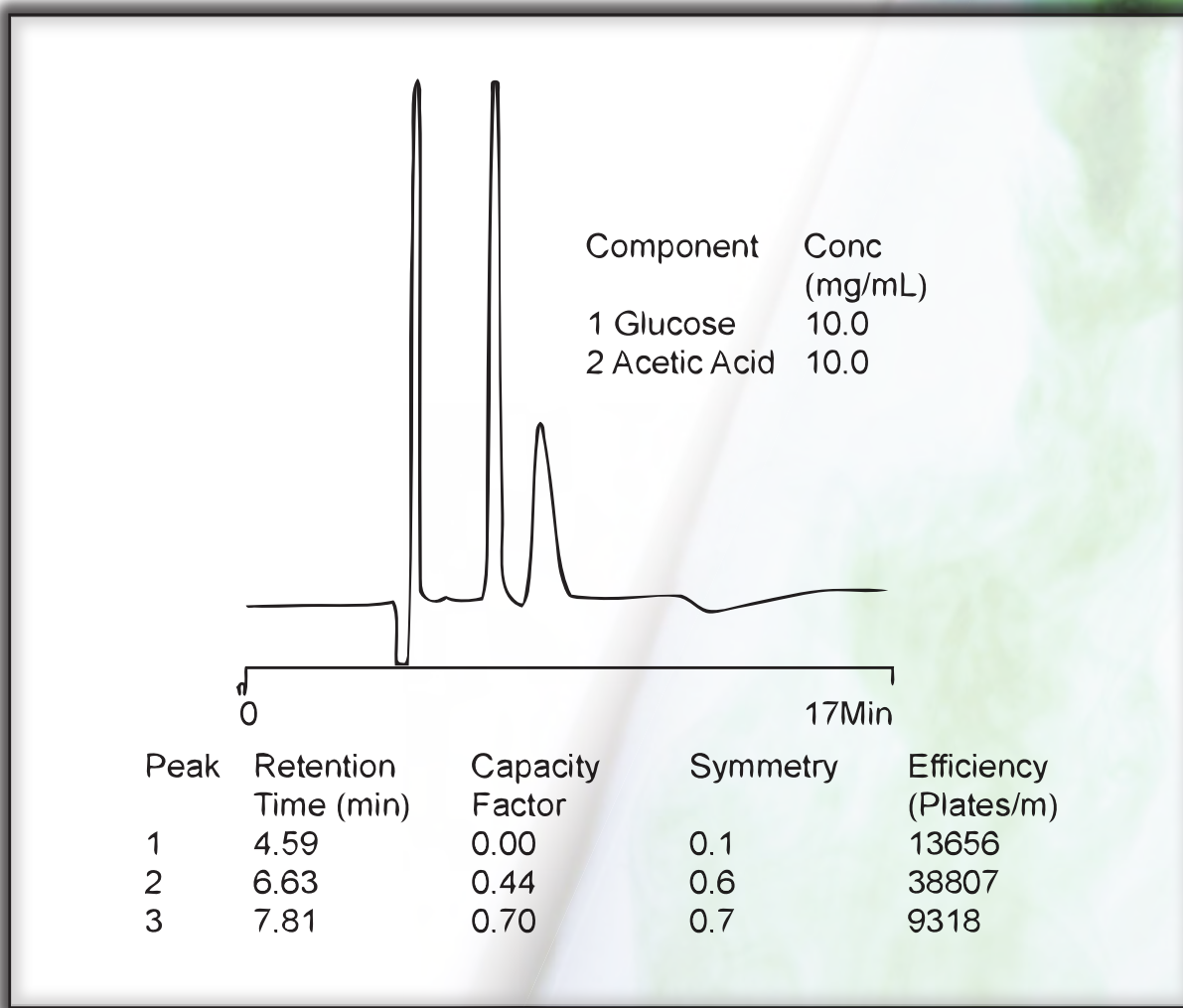


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# HPLC APPLICATION

## GLUCOSE & ACETIC ACID

**Part Number:** 15041  
**Packing:** Jordi DVB Sulfonated 500Å  
**Column:** 25cm X 10mm ID  
**Mobile Phase:** 0.01M Phosphoric Acid Adj. to pH 7.5  
**Flow Rate:** 2.0mL/min.  
**Injection:** 20µL  
**Temperature:** Ambient  
**Detector:** RI 4X



# Sax Quat

## DVB





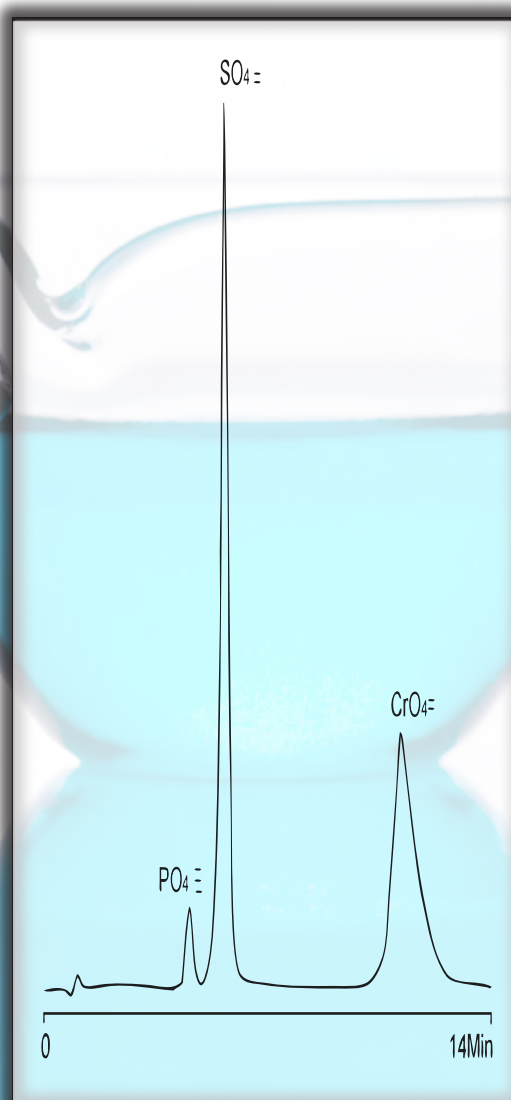
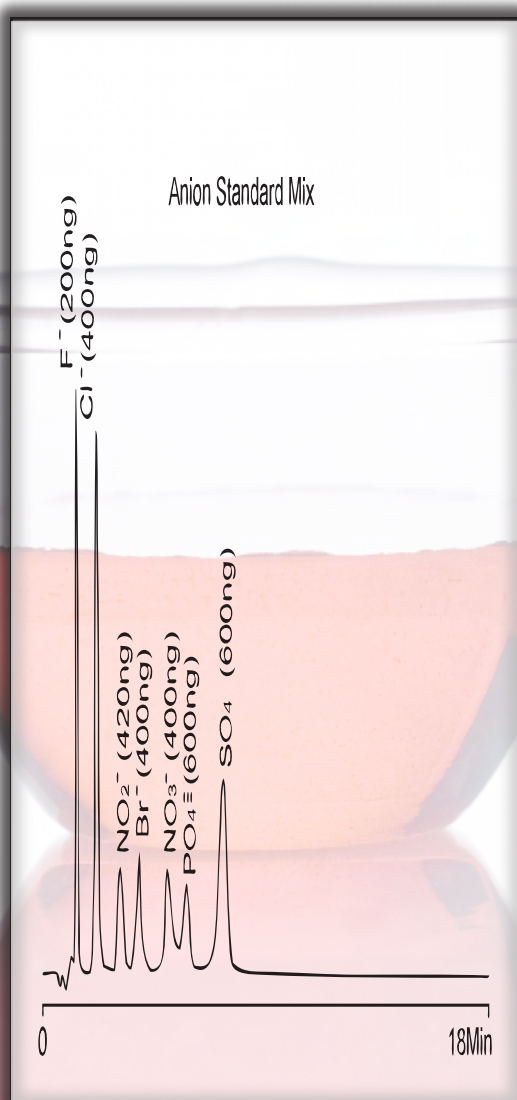


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# HPLC APPLICATION

## CHROMATE PLATING BATH

**Part Number:** 18701  
**Packing:** Jordi DVB SAX Quat 10<sup>3</sup>Å  
**Column:** 10cm X 4.6mm ID  
**Solvent:** 90/10 15mL/L EZ Lute Concentrate/MeOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Temperature:** 40°C  
**Detector:** Waters 430 Conductivity Gain 0.5,  
 Range 0.5 0.25µS FS





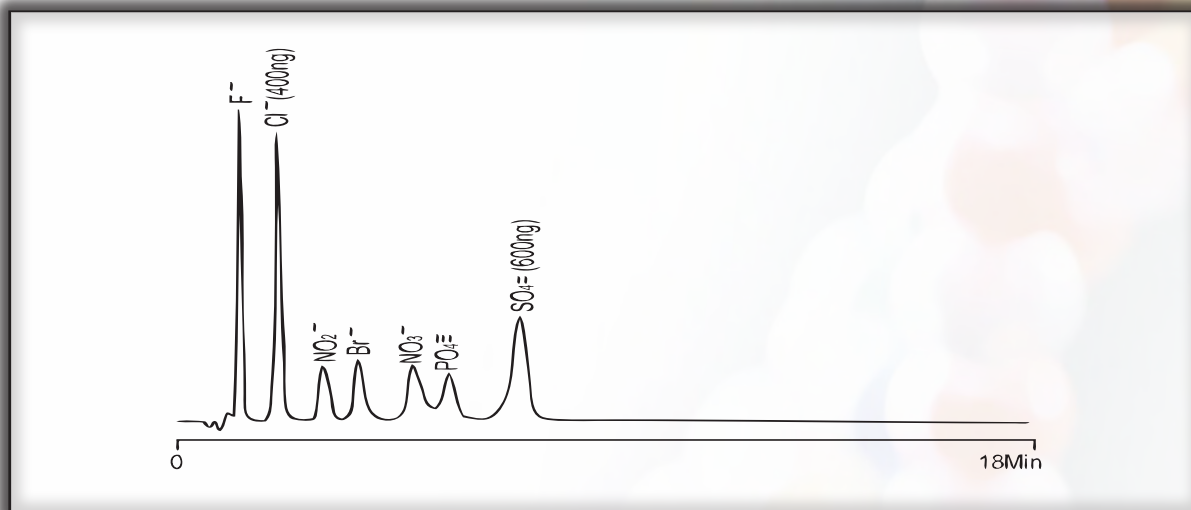
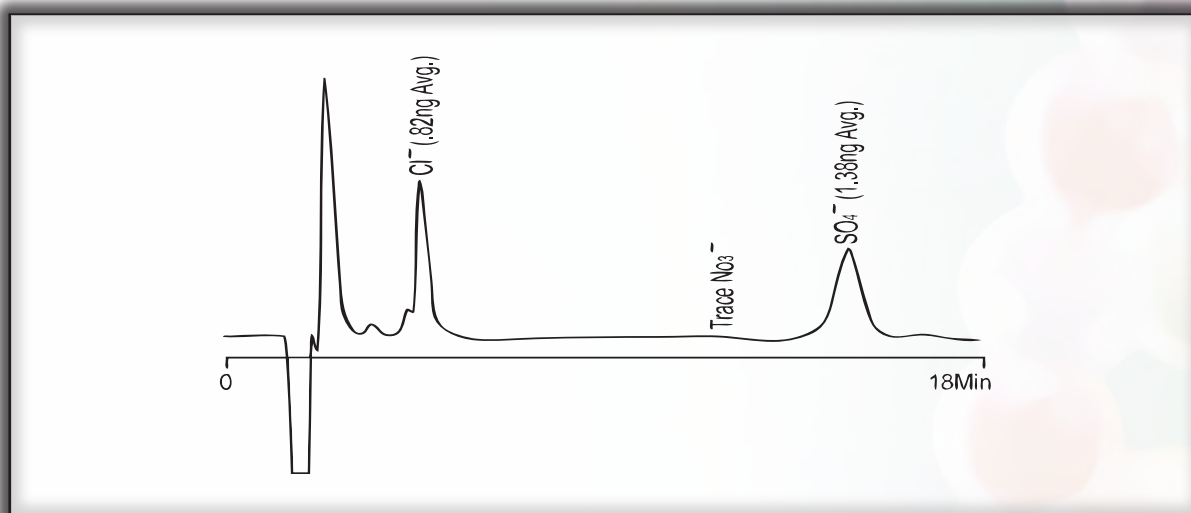


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# HPLC APPLICATION

## CORROSION TEST

**Part Number:** 18701  
**Packing:** Jordi DVB SAX Quat 10<sup>3</sup>Å  
**Column:** 10cm X 4.6mm ID  
**Solvent:** 90/10 15mL/L EZ Lute Concentrate/MeOH  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Temperature:** 40°C  
**Detector:** Waters 430 Conductivity Gain 0.2, Range 0.5 1µS FS



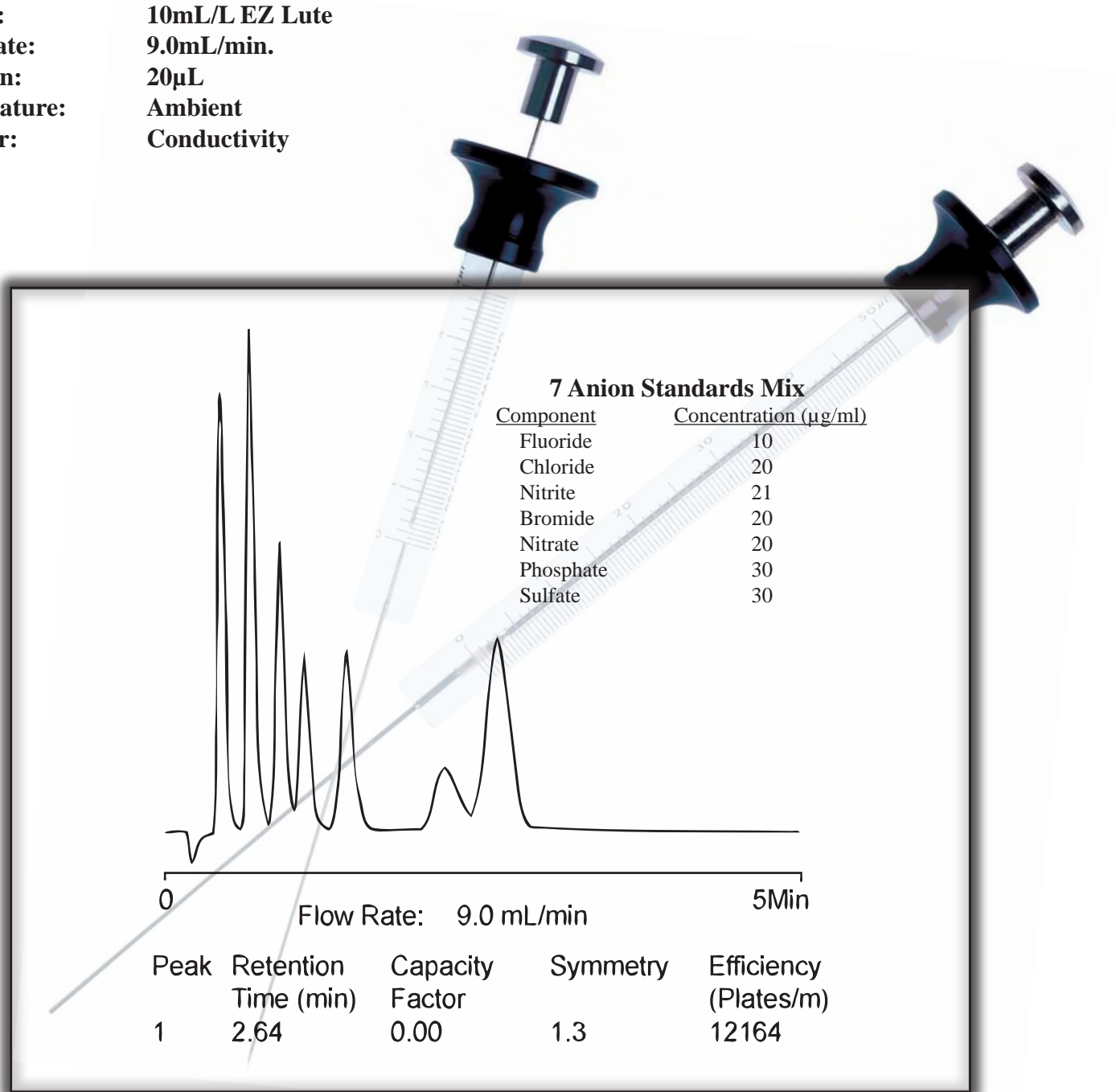


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# HPLC APPLICATION

## 7 ANION STANDARD MIX

**Part Number:** 18701  
**Packing:** Jordi DVB SAX Quat 10<sup>3</sup>Å  
**Column:** 10cm X 4.6mm ID  
**Solvent:** 10mL/L EZ Lute  
**Flow Rate:** 9.0mL/min.  
**Injection:** 20µL  
**Temperature:** Ambient  
**Detector:** Conductivity



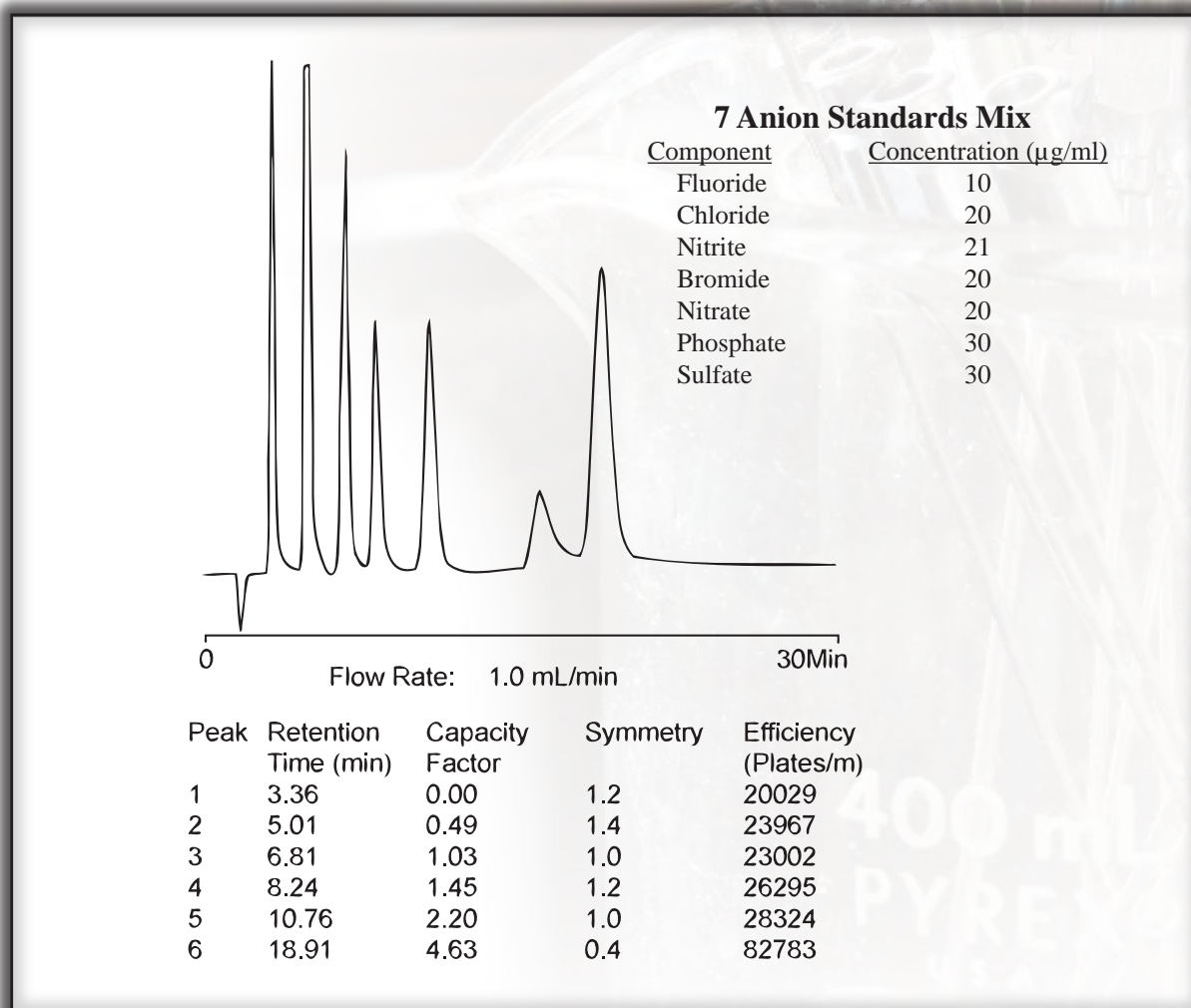


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# HPLC APPLICATION

## 7 ANION STANDARD MIX

**Part Number:** 18701  
**Packing:** Jordi DVB SAX Quat 10<sup>3</sup>Å  
**Column:** 10cm X 4.6mm ID  
**Solvent:** 10mL/L EZ Lute  
**Flow Rate:** 1.0mL/min.  
**Injection:** 20µL  
**Temperature:** Ambient  
**Detector:** Conductivity





# INDEX

Page	Compound	Solvent	Column
Pg 26	Alkaloid Drugs	70/20/10 H <sub>2</sub> O/ACN/MeOH w/0.1% TFA	DVB C18
Pg 61	Alkaloid Drugs	A: 70/20/10 B: 10/80/10 H <sub>2</sub> O/ACN/MeOH w/0.1% TFA	DVB/RP
Pg 32	Ampicillin	50/50 ACN/0.05M KH <sub>2</sub> PO <sub>4</sub>	DVB C18
Pg 57	Aniline, Dimethylaniline & Diethylaniline	78/22 ACN/H <sub>2</sub> O	DVB/RP
Pg 140	7 Anion Std. Mix @9mL/min	10mL/L EZ Lute Concentrate	DVB SAX Quat
Pg 141	7 Anion Std. Mix @1mL/min	10mL/L EZ Lute Concentrate	DVB SAX Quat
Pg 17	Anticonvulsants	A: H <sub>2</sub> O B: 87.5/12.5 ACN/MeOH	DVB C18
Pg 60	Antihistamines	A: 70/20/10 B: 8/73/19 H <sub>2</sub> O/ACN/MeOH w/0.1% TFA	DVB/RP
Pg 100	Antistatic Analysis	78/22→100/0 CH <sub>3</sub> CN/H <sub>2</sub> O	DVB RP 103Å
Pg 110	Antiulcerative Omperazole	10/20/20/50 MeOH/ACN/THF/H <sub>2</sub> O	DVB Hydroxylated RP 500Å
Pg 91	Antiulcerative Omperazole	10/20/30/40 MeOH/ACN/THF/H <sub>2</sub> O	DVB RP 500Å
Pg 37	Ascorbic and Dehydroascorbic Acid	H <sub>2</sub> O, pH 2.7 w/acetic acid: Acetonitrile/Methanol (5:1) 40:60	DVB C18
Pg 53	Aspirin & Related Compounds	50/50 ACN/H <sub>2</sub> O w/0.5% TFA	DVB/RP
Pg 8	Aspirin & Related Compounds	60/40 ACN/H <sub>2</sub> O w/0.1% TFA	DVB C18
Pg 21	Aspirin & Related Compounds	40/60 ACN/H <sub>2</sub> O w/0.1% TFA	DVB C18
Pg 115	Azodicarbonamide	90/10 H <sub>2</sub> O/DMSO	DVB Polyamide RP 500Å
Pg 18	Barbiturates	70/22.5/7.5 0.05M Na <sub>2</sub> HPO <sub>4</sub> /ACN/MeOH	DVB C18
Pg 48	Base-Neutral-Acid Test Mix	55/37.2/7.8 ACN/H <sub>2</sub> O/MeOH	DVB/RP
Pg 103	Benzoic Acid	35/5/60 MeOH/THF/H <sub>2</sub> O+0.1% TFA	DVB/RP
Pg 130	Bovine Serum Albumin	80/20→40/60 A/B 30 Min. Linear A: 0.15% TFA in H <sub>2</sub> O B: 0.15% TFA in ACN	Jordi Peptide/ Protein Hydroxylated
Pg 9	Butyl Phenol Standards	70/30 ACN/H <sub>2</sub> O w/ 0.1% TFA	DVB C18
Pg 49	Butylphenol Standards	80/20 ACN/H <sub>2</sub> O w/0.05% TFA	DVB/RP
Pg 45	Caffeine in Coffee	50/15/35 0.01M LiNO <sub>3</sub> /ACN/MeOH	DVB/RP
Pg 47	Caffeine in Coke & Pepsi	50/15/35 0.01M LiNO <sub>3</sub> /ACN/MeOH	DVB/RP
Pg 46	Caffeine in Tea & Chocolate	50/15/35 0.01M LiNO <sub>3</sub> /ACN/MeOH	DVB/RP
Pg 58	Catecholamines	75/24/1 0.2M NaOH/ACN/Butylamine	DVB/RP
Pg 25	Catecholamines	A: 98/1/1 B: 79/20/1 0.01M NaH <sub>2</sub> PO <sub>4</sub> /Butylamine	DVB C18
Pg 19	Choline Compounds	H <sub>2</sub> O @pH 3.3 w/HCl	DVB C18
Pg 10	Choline Compounds	90/3/7 0.1M Na <sub>2</sub> HPO <sub>4</sub> /ACN/MeOH	DVB C18
Pg 138	Chromate Plating Bath	90/10 15mL/L EZ Lute Conc./MeOH	DVB Anion SAX Quat
Pg 54	Column Test Mix	75/20/5 ACN/H <sub>2</sub> O/MeOH w/0.1% TFA	DVB/RP
Pg 11	Column Test Mix	65/30/5 ACN/H <sub>2</sub> O/MeOH w/0.1% TFA	DVB C18
Pg 118	Corn Syrup	A: 85/15 ACN/H <sub>2</sub> O B: H <sub>2</sub> O	DVB Polyamine
Pg 139	Corrosion Test	90/10 15mL/L EZ Lute Conc./MeOH	DVB Sax Quat
Pg 84	2'-deoxy-2'-fluoroadenosine	A: 0.1M TEAA/ACN 99:1 B: 0.1M TEAA/ACN/MeOH 50:25:25	DVB/RP
Pg 86	Mix of 2'-deoxyadenosine & the Mono & Tri	A: 0.1M TEAA/ACN 99:1 B: 0.1M TEAA/ACN/MeOH 50:25:25	DVB/RP
Pg 82	2'-deoxy-2'-fluoroadenosine alphathiosphosphate	A: 0.1M TEAA/ACN 99:1 B: 0.1M TEAA/ACN/MeOH 50:25:25	DVB/RP
Pg 85	2'-deoxy-2'-fluoroadenosine alphatrithiosphosphate & 2'-deoxy-2'-fluoroadenosine	A: 0.1M TEAA/ACN 99:1 B: 0.1M TEAA/ACN/MeOH 50:25:25	DVB/RP

Pg 87	2'-deoxy-2'-fluoroadenosine alphatrithiophosphate & 2'-deoxy-2'-fluoroadenosine	A: 0.1M TEAA/1% ACN B: 50% 0.1M TEAA/ACN	DVB/RP
Pg 83	2'-deoxy-2'-fluoroadenosine alphatrithiophosphate Sodium Salt	A: 0.1M TEAA/ACN 99:1 B: 0.1M TEAA/ACN/MeOH 50:25:25	DVB/RP
Pg 93	Dilaurylthiodipropionate, Dimyristylthiodipropionate & Distearylthiodipropionate-polymer Antioxidants	45/45/10 ACN/IPA/IO	DVB RP 103Å
Pg 70	Dimethylaminoethyl Phenol Standards	80/20 ACN/0.2M NaOH	DVB/RP
Pg 134	Divinylbenzene	85/15 CHCl <sub>3</sub> /MeOH	DVB Sulfonated
Pg 30	Erythromycin (New & Aged)	45/23/32 ACN/0.05M KH <sub>2</sub> PO <sub>4</sub> /MeOH	DVB C18
Pg 7	Fat Soluble Vitamins	ACN w/0.1% TFA	DVB C18
Pg 66	Fatty Acids (Even Carbon)	95/5 MeOH/THF	DVB/RP
Pg 64	Fatty Acids (Odd Carbon)	95/5 MeOH/THF	DVB/RP
Pg 67	Short Chain Fatty Acids	50/50/1 ACN/H <sub>2</sub> O/H <sub>3</sub> PO <sub>4</sub>	DVB/RP
Pg 28	Short Chain Fatty Acids	50/50/1 ACN/H <sub>2</sub> O/H <sub>3</sub> PO <sub>4</sub>	DVB C18
Pg 76	Fumonisin B1	50/25/25 H <sub>2</sub> O/MeOH/ACN	DVB/RP
Pg 33	Fumonisin B1	50/25/25 H <sub>2</sub> O/MeOH/ACN	DVB C18
Pg 34	Fumonisin B1	50/25/25 H <sub>2</sub> O/MeOH/ACN	DVB C18
Pg 42	Fumonisin B1	50/25/25 H <sub>2</sub> O/MeOH/ACN	DVB C18
Pg 35	Fumonisin B1	50/25/25 H <sub>2</sub> O/MeOH/ACN	DVB C18
Pg 136	Glucose & Acetic Acid	0.01M Phosphoric Acid, pH adj. to 7.5	DVB Sulfonated
Pg 72	Glycerol Monoesters	78/22 to 100/0 ACN/H <sub>2</sub> O, 30 min.	DVB/RP
Pg 73	Glycerol Monoesters	78/22 to 100/0 ACN/H <sub>2</sub> O, 30 min.	DVB/RP
Pg 56	Hindered Phenolic Antioxidants	ACN/H <sub>2</sub> O 78/22 to 100/0 30 min linear	DVB/RP
Pg 98	Hydroquinone	10/10/80 MeOH/ACN/H <sub>2</sub> O w/0.1% TFA	DVB 103Å
Pg 94	Irganox 1010, Naugard 445 & Distearylthiodipropionate-Polymer Antioxidants	45/45/10 ACN/IPA/IO	DVB RP 103Å
Pg 121	Jordi Peptide Protein	90/10→60/40 A/B 30 min. linear A: 99/1 H <sub>2</sub> O/Acetic Acid B: 99/1 ACN/Acetic Acid	Jordi Peptide Protein
Pg 108	Lipids and a Triglyceride	50/43/7 CHCl <sub>3</sub> /MeOH/0.15% TFA in H <sub>2</sub> O	DVB Glucose NP 500Å
Pg 101	Mineral Oil and Motor Oils	75/25 Ethanol/2-propanol	DVB RP 103Å
Pg 22	2' and 3' Monophosphate Nucleotides	99/1 0.01M Sodium Acetate/ACN	DVB C18
Pg 23	2' and 3' Monophosphate Nucleotides	99/1 0.01M Sodium Acetate/ACN	DVB C18
Pg 14	Nucleosides and Bases	99/1 0.01M Sodium Acetate/ACN	DVB C18
Pg 15	Nucleosides and Bases	99/1 0.01M Sodium Acetate/ACN	DVB C18
Pg 16	Nucleosides and Bases	99/1 0.01M Sodium Acetate/ACN	DVB C18
Pg 63	Nucleosides and Bases	97/1/2 0.01M NaOAc/ACN/MeOH	DVB/RP
Pg 62	Nucleotides	97/1/2 0.01M NaOAc/ACN/MeOH	DVB/RP
Pg 102	Nylon 6 Monomer	10/90→100/0 CH <sub>3</sub> CN/H <sub>2</sub> O	DVB RP 103Å
Pg 50	Organic Acids	90/10 MeOH/THF	DVB/RP
Pg 51	Organic Acids	34.7/15.3/50 ACN/THF/H <sub>2</sub> O	DVB/RP
Pg 79	Parabens by GPC & LC	Acetonitrile, Methanol, THF or 50/50 Acetonitrile/Methanol	DVB 500Å
Pg 92	PEG 425	60/40 MeOH/H <sub>2</sub> O	DVB RP 103Å
Pg 31	Penicillin (New & Aged)	50/50 ACN/0.05M KH <sub>2</sub> PO <sub>4</sub>	DVB C18

Pg 59	Phenols	A: 45/45/10 B: 8/73/19 H2O/ACN/MeOH w/0.1% TFA	DVB/RP
Pg 24	Phenols	A: 44/56 B: 10/90 H2O/ACN w/0.1% TFA	DVB C18
Pg 129	Peptide Protein Standard Separation	80/20→40/60 A/B 30 min linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide/Protein Hydroxylated
Pg 107	Phospholipid Mixture	48/42/10 CHCl3/MeOH/H2O w/0.2% NH4OH	DVB Glucose 500Å
Pg 135	Phosphoric Compounds	0.02M Phosphoric Acid w/3% ACN	DVB Sulfonated
Pg 116	Polyhydroxy Alkaloids	A: ACN: 0.2% (w/v) B: Ammonium Acetate in H2O	Polyamine 500Å
Pg 99	Polymer Sample Separations	100/0→0/100 ACN/CHCl3 linear over 30 minutes	DVB 103Å
Pg 105	Proteins	A: 0.1% TFA in H2O B: 0.1% TFA in ACN	DVB Solid Bead
Pg 104	Proteins & Enzymes	A: 0.1% TFA in H2O B: 0.1% TFA in ACN	DVB Solid Bead
Pg 131	Protein Standards Mix	80/20→40/60 A/B 30 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein Hydroxylated
Pg 122	Protein Standard Separation	90/10→60/40 A/B 30 min. Linear A: 98/2 H2O/Acetic Acid B: 98/2 ACN/Acetic Acid	Peptide Protein
Pg 123	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 124	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 125	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 126	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 127	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 128	Protein Standard Separation	80/20→40/60 A/B 10 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 120	Protein Standard Separation	80/20→40/60 A/B 30 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 132	Protein Standard Separation	80/20→40/60 A/B 30 min. Linear A: 0.15% TFA in H2O B: 0.15% TFA in ACN	Peptide Protein
Pg 80	Quercitin & Rutin	75/25 Acetic Acid/MeOH	DVB 500Å
Pg 81	Quercitin & Rutin	50/50 Pyridine/Glacial Acetic Acid	DVB 500Å
Pg 95	RP Mix	MeOH/ACN/THF/H2O 10/20/30/40	DVB RP 103Å
Pg 41	RP Mix	MeOH/ACN/THF/H2O 10/20/30/40	DVB C18
Pg 88	RP Mix	MeOH/ACN/THF/H2O 10/20/30/40	DVB RP 500Å Bullet
Pg 38	RP Mix	MeOH/ACN/THF/H2O 10/20/30/40	DVB C18
Pg 77	RP Mix w/New Mobile Phase	50/25/25 ACN/MeOH/H2O	DVB/RP
Pg 78	RP Mix w/New Mobile Phase	30/30/40 THF/ACN/H2O	DVB/RP
Pg 40	RP Mix w/New Mobile Phase	30/30/40 THF/ACN/H2O	DVB C18



Pg 43	RP Mix w/New Mobile Phase	30/30/40 THF/ACN/H2O	DVB C18
Pg 36	RP Mix w/New Mobile Phase	60/40 THF/H2O	DVB C18
Pg 39	RP Mix w/New Mobile Phase	50/25/25 ACN/MeOH/H2O	DVB C18
Pg 96	Sea Nine 211 Rohm & Haas	100/0 CH3CN/H2O Antifouling Agent	DVB RP 103Å
Pg 112	Separation of Organic Acids	0.01M of Phosphoric Acid, pH 3 w/NaOH	DVB Organic Acid 500Å
Pg 89	Separation of Polyethylene Glycol & Polypropylene Glycol	A: 78/22 CH3Ca/H2O B: 2-propanol 40/60 A/B→B linear over 10 minutes	DVB 500Å
Pg 90	Separation of Polyethylene Glycol & Polypropylene Glycol	2-propanol	DVB 500Å
Pg 74	Slip Agents	78/22 to 100/0 ACN/H2O 30 min	DVB/RP
Pg 75	Slip Agents	78/22 to 100/0 ACN/H2O 30 min	DVB/RP
Pg 27	Steroids	65/35 ACN/H2O	DVB C18
Pg 65	Steroids	85/15 ACN/H2O	DVB/RP
Pg 117	Sugar Standards	75/20/5 ACN/H2O/MeOH	DVB Polyamine
Pg 114	Sugar Standards	80/15/5 ACN/H2O/MeOH	DVB Polyamine
Pg 71	Tannic Acid	80/10/10 H2O/ACN/MeOH	DVB/RP
Pg 68	Tetracycline & related Compounds	30/70 ACN/H2O w/0.1% TFA	DVB/RP
Pg 29	Tetracycline & related Compounds	20/80 ACN/H2O w/0.1% TFA	DVB C18
Pg 69	2,4,6-Tris(Dimethylaminoethyl)	80/20 ACN/0.02M NaOH Phenol Standard	DVB/RP
Pg 97	Urethane Prepolymer	100/0→0/100 ACN/CHCl3 linear over 30 min	DVB/103Å
Pg 55	Vanillin Compounds	80/20 ACN/H2O w/0.1% TFA	DVB/RP
Pg 13	Vanillin Compounds	40/60 H2O/ACN w/0.1% TFA	DVB C18
Pg 20	Vanillin Compounds	40/60 H2O/ACN w/0.1% TFA	DVB C18
Pg 12	Vasoconstrictors	24/75/1 ACN/0.2M NaOH/Butylamine	DVB C18
Pg 52	Vasoconstrictors	24/74/2 ACN/0.2M NaOH/Butylamine	DVB/RP
Pg 3	Water Soluble Vitamins	50/40/10 H2O/ACN/MeOH	DVB C18
Pg 4	Water Soluble Vitamins	50/40/10 H2O/ACN/MeOH	DVB C18
Pg 5	Water Soluble Vitamins	70/30 H2O/ACN w/0.1% TFA	DVB C18
Pg 6	Water Soluble Vitamins	50/40/10 H2O/ACN/MeOH	DVB C18