

DISCOVERY[®]

HPLC and SPE Products for Pharmaceutical Analysis and Purification

INTRODUCING

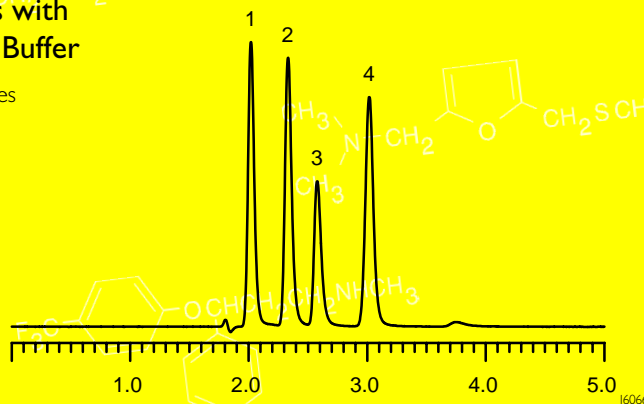
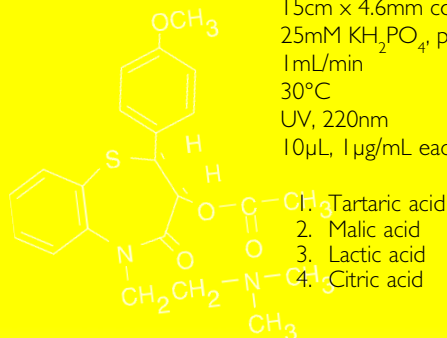
Discovery RP-AmideC16 HPLC Columns

- Unique selectivity
- Excellent retention and resolution of polar compounds
- Less hydrophobicity than C18 phases
- Different elution profiles compared to C18 phases
- Excellent reproducibility
- Compatible with 100% aqueous phases

HERE'S THE PROOF

α -Hydroxy Aliphatic Acids with 100% Aqueous Phosphate Buffer

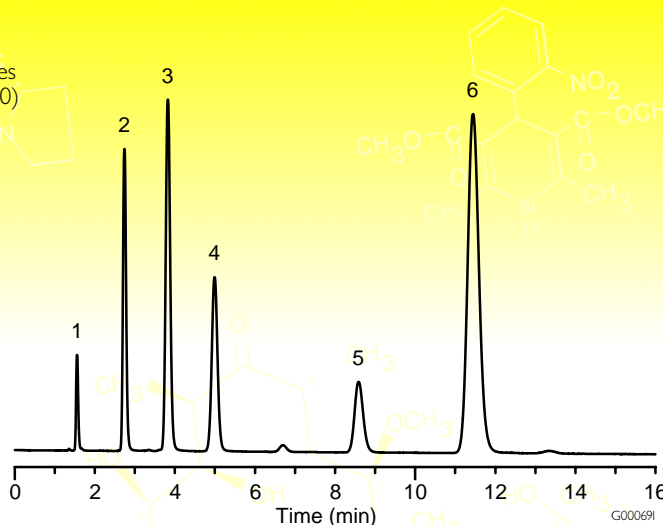
15cm x 4.6mm column, 5 μ m particles
 25mM KH₂PO₄, pH 3.0
 1mL/min
 30°C
 UV, 220nm
 10 μ L, 1 μ g/mL each analyte



Alkaloids

15cm x 4.6mm column, 5 μ m particles
 MeOH/25mM KH₂PO₄, pH3.0 (20:80)
 2mL/min
 35°C
 254nm
 10 μ L sample

1. Codeine
2. Strychnine
3. Quinidine
4. Quinine
5. Noscapine
6. Papaverine



SUPELCO

Supelco Park,
 Bellefonte, PA 16823-0048

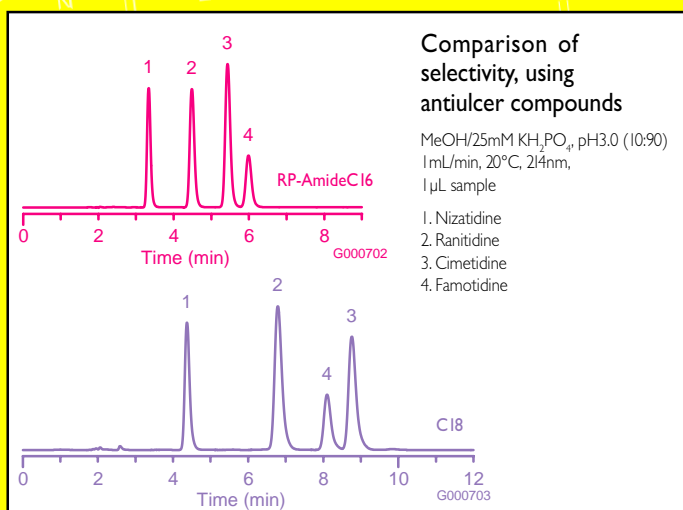
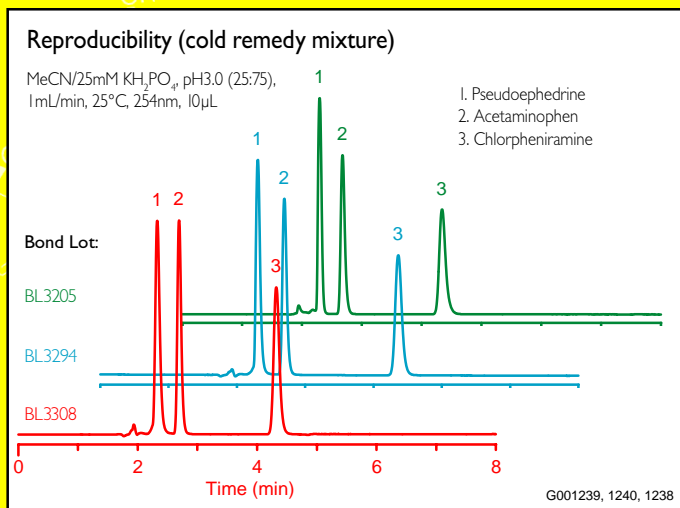
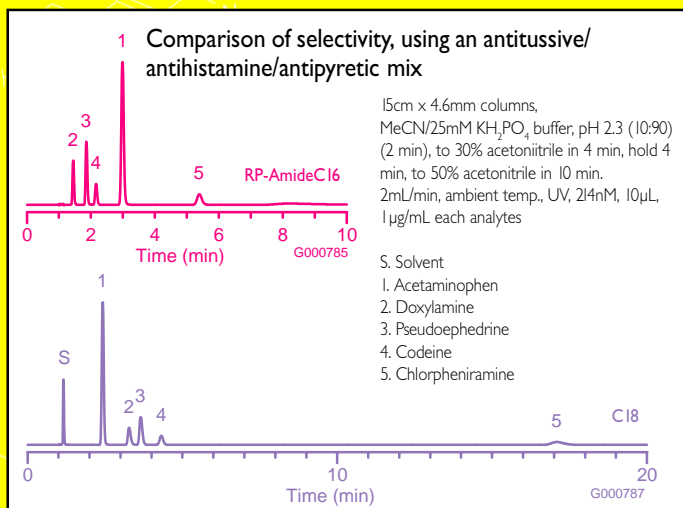
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 800-247-6628 / 814-359-3441

fax:
 800-447-3044 / 814-359-3044

internet:
www.sigma-aldrich.com

email:
supelco@sial.com

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Discovery RP-AmideC16 Properties

Silica:
particles: 5µm spherical
surface area: 200m²/g
pH range: 2 - 8.0

pore size: 180Å
pore volume: 1 mL/g
metals (ppm): Fe <20
Na/Ca <5
Mg/K/Al/Ti <1

Bonded Phase
>11.1% C, 2.6µmole/m² endcapped

$$\text{---O---Si(CH}_3\text{)}_2\text{---(CH}_2\text{)}_3\text{NHCO---(CH}_2\text{)}_{14}\text{---CH}_3$$

G000837

ORDERING INFORMATION:

Discovery RP-AmideC16 HPLC Columns

| ID (mm) | LENGTH (cm) | CAT. NO. | ID (mm) | LENGTH (cm) | CAT. NO. |
|---------|-------------|-----------|---------|-------------|-----------|
| 2.1 | 5 | 505005-21 | 4.0 | 5 | 505005-40 |
| 2.1 | 10 | 569320-U | 4.0 | 10 | 569322-U |
| 2.1 | 12.5 | 569329-U | 4.0 | 12.5 | 569331-U |
| 2.1 | 15 | 505013-21 | 4.0 | 15 | 505013-40 |
| 3.0 | 5 | 505005-30 | 4.0 | 25 | 505064-40 |
| 3.0 | 10 | 569321-U | 4.6 | 5 | 505005 |
| 3.0 | 12.5 | 569330-U | 4.6 | 10 | 569323-U |
| 3.0 | 15 | 505013-30 | 4.6 | 12.5 | 569332-U |
| 3.0 | 25 | 505064-30 | 4.6 | 15 | 505013 |
| | | | 4.6 | 25 | 505064 |

Discovery RP-AmideC16 Special Application Kits

| DESCRIPTION | CAT. NO. |
|--|-----------|
| DISCOVERY RP-AMIDE C16 VALIDATION PACKS¹ | |
| 5cm x 2.1mm ID Columns | 55705-U21 |
| 10cm x 2.1mm ID Columns | 569802-U |
| 15cm x 2.1mm ID Columns | 55707-U21 |
| 5cm x 4.6mm ID Columns | 55705-U |
| 10cm x 4.6mm ID Columns | 569803-U |
| 15cm x 4.6mm ID Columns | 55707-U |
| 25cm x 4.6mm ID Columns | 55709-U |

¹ Identical columns made from three different bonded phase lots.

2cm Supelguard™ Cartridges with 5µm Discovery Packings

| DESCRIPTION | CAT. NO. |
|--|----------|
| 4.0mm ID Cartridges² | |
| kit ³ | 505080 |
| pk of 2 | 505099 |
| 3.0mm ID Cartridges | |
| kit ³ | 59577-U |
| pk of 2 | 59578-U |
| 2.1mm ID Cartridges | |
| kit ³ | 505102 |
| pk of 2 | 505110 |

² For 4.0mm ID and 4.6mm ID analytical columns.
³ Kits include one cartridge, a stand-alone holder, a piece of tubing, and 2 nuts and ferrules.

Additional sizes are available – please inquire.

Discover the benefits for yourself. Phone 800-247-6628 or 814-359-3441 for your column today!

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