

**NEW**

# Ascentis<sup>®</sup> Express RP-Amide HPLC Columns

## Fused-Core<sup>™</sup> Technology Columns

Ascentis Express columns provide a breakthrough in HPLC column performance, as well as the benefits of sub 2 micron particles at much lower backpressure. Ascentis Express RP-Amide columns offer these same benefits with an embedded polar group (EPG) phase.

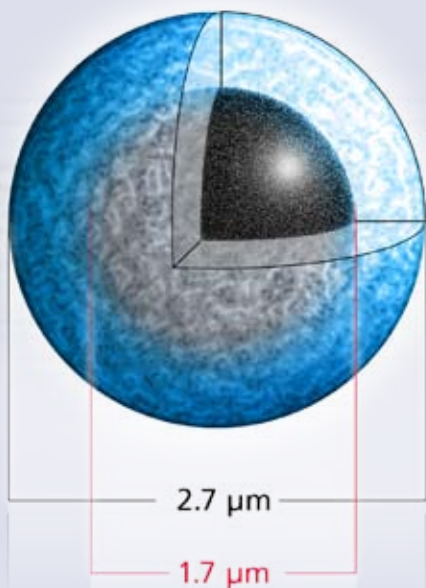
### Key Benefits of Ascentis Express

- Double the efficiency of 3 micron columns
- Same efficiency of sub 2 micron columns at half of the backpressure
- Rugged design capable of ultra high pressure operation

### Key Benefits of RP-Amide

- Alternate reversed phase selectivity to C18
- Improved peak shape for bases
- 100% aqueous compatible reversed phase column

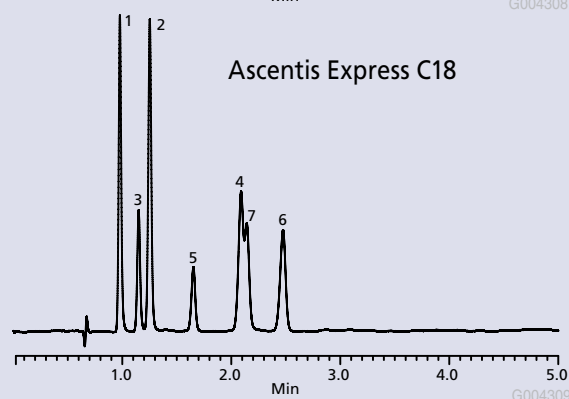
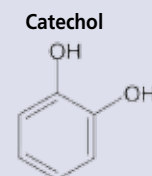
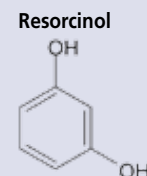
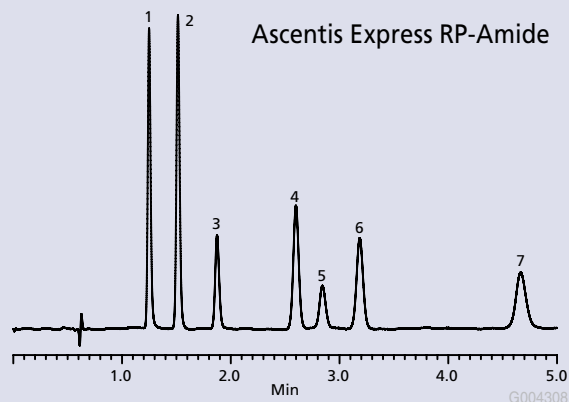
Fused-Core Structure of Ascentis Express



### Comparison of the Analysis of Phenolics on Ascentis Express RP-Amide and Ascentis Express C18

columns: Ascentis Express RP-Amide, 10 cm x 2.1 mm I.D.  
Ascentis Express C18, 10 cm x 2.1 mm I.D.  
mobile phase A: 20 mM phosphoric acid, pH 2 (unadjusted)  
mobile phase B: water  
mobile phase C: acetonitrile  
mixing proportions: A:B:C = 75 : 5 : 20  
flow rate: 0.3 mL/min  
temp.: 35 °C  
det.: 270 nm  
injection volume: 1 µL  
sample: 50 mg/L ea. in 20 mM phosphoric acid

1. Resorcinol
2. Catechol
3. 2-Methylresorcinol
4. 4-Methylcatechol
5. 2,5-Dimethylresorcinol
6. 3-Methylcatechol
7. 4-Nitrocatechol



For more information on Ascentis Express HPLC Columns, call our technical experts at **800-359-3041/814-359-3041** or visit [sigma-aldrich.com/express](http://sigma-aldrich.com/express)

## Ordering Information

ID (mm)	Length (cm)	Ascentis Express C18	Ascentis Express C8	Ascentis Express HILIC	Ascentis Express RP-Amide
2.1	3	53802-U	53839-U	53933-U	53910-U
2.1	5	53822-U	53831-U	53934-U	53911-U
2.1	7.5	53804-U	53843-U	53938-U	53912-U
2.1	10	53823-U	53832-U	53939-U	53913-U
2.1	15	53825-U	53834-U	53946-U	53914-U
3.0	3	53805-U	53844-U	53964-U	53915-U
3.0	5	53811-U	53848-U	53967-U	53916-U
3.0	7.5	53812-U	53849-U	53969-U	53917-U
3.0	10	53814-U	53852-U	53970-U	53918-U
3.0	15	53816-U	53853-U	53972-U	53919-U
4.6	3	53818-U	53857-U	53974-U	53921-U
4.6	5	53826-U	53836-U	53975-U	53922-U
4.6	7.5	53819-U	53858-U	53977-U	53923-U
4.6	10	53827-U	53837-U	53979-U	53929-U
4.6	15	53829-U	53838-U	53981-U	53931-U

Supelco offers many ways to easily place your order or inquire about an existing order. You can call, fax, or visit our web site 24 hours a day, 7 days a week.

Please contact us at:

**Phone:** 800-247-6628 / 800-325-3010 / 814-359-3441

**Fax:** 800-325-5052 / 814-359-5459

**Web:** [sigma-aldrich.com/supelco](http://sigma-aldrich.com/supelco)

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Fused-Core is a trademark of Advanced Materials Technology, Inc.

### World Headquarters

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**Development/Bulk Manufacturing Inquiries SAFC™** (800) 244-1173

*Accelerating Customers'  
Success through Leadership  
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