

# APPLICATION

## Pheniramine and Halogenated Derivatives Separated with a Kinetex<sup>®</sup> 2.6 μm EVO C18 Core-Shell Column

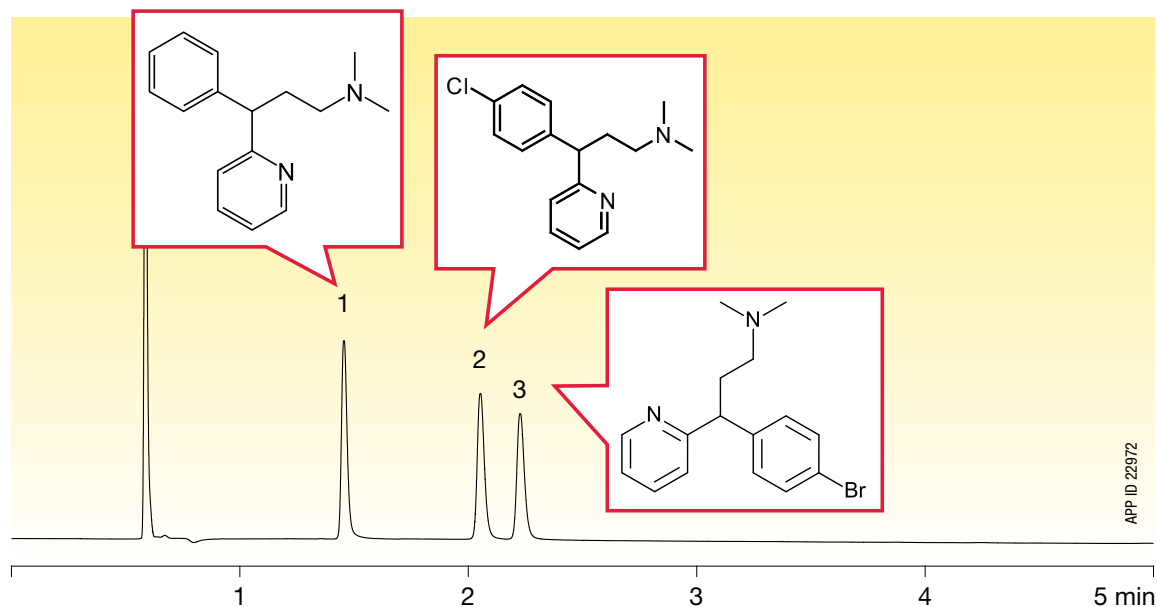
Laura Snow and Simon Lomas  
Phenomenex, Inc., 411 Madrid Ave., Torrance, CA 90501 USA

### Overview

The antihistamines pheniramine, chlorpheniramine, and brompheniramine are active ingredients found in over-the-counter cold and allergy medicines. Under acidic conditions, the analysis of these basic compounds can be problematic for traditional fully porous and core-shell media as secondary interactions with the silica surface can result in peak tailing. To counteract this, high pH conditions can be used to neutralize these three antihistamines so they exhibit better hydrophobic retention. With its wide pH stability range, the Kinetex EVO C18 easily withstands these needed high pH conditions, while providing a quick separation of these similarly structured compounds. Additionally, the unique organo-silica layer of ethane cross-linking found within the Kinetex EVO C18 core-shell particles provides a highly inert surface that promotes excellent peak shape for these and other basic compounds.

### LC/UV Conditions

<b>Column:</b>	Kinetex 2.6 μm EVO C18	
<b>Dimensions:</b>	100 x 4.6 mm	
<b>Part No.:</b>	00D-4725-E0	
<b>Mobile Phase:</b>	A: 10 mM Ammonium bicarbonate (pH 10.2) B: Acetonitrile	
<b>Gradient:</b>	<b>Time (min)</b>	<b>% B</b>
	0	50
	4	60
<b>Flow Rate:</b>	1.25 mL/min	
<b>Temperature:</b>	Ambient	
<b>Detection:</b>	UV @ 210 nm	
<b>Sample:</b>	1. Pheniramine 2. Chlorpheniramine 3. Brompheniramine	



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## Ordering Information Kinetex<sup>®</sup> EVO C18 Core-Shell LC Columns

5 µm Minibore Columns (mm)				SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
00A-4633-AN	00B-4633-AN	00D-4633-AN	00F-4633-AN	AJO-9298 for 2.1 mm ID

5 µm MidBore <sup>™</sup> Columns (mm)			SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
50 x 3.0	100 x 3.0	150 x 3.0	3/pk
00B-4633-YO	00D-4633-YO	00F-4633-YO	AJO-9297 for 3.0 mm ID

5 µm Analytical Columns (mm)				SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
00B-4633-E0	00D-4633-E0	00F-4633-E0	00G-4633-E0	AJO-9296 for 4.6 mm ID

2.6 µm Minibore Columns (mm)				SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
00A-4725-AN	00B-4725-AN	00D-4725-AN	00F-4725-AN	AJO-9298 for 2.1 mm ID

2.6 µm MidBore <sup>™</sup> Columns (mm)			SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
50 x 3.0	100 x 3.0	150 x 3.0	3/pk
00B-4725-YO	00D-4725-YO	00F-4725-YO	AJO-9297 for 3.0 mm ID

2.6 µm Analytical Columns (mm)				SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
50 x 4.6	100 x 4.6	150 x 4.6		3/pk
00B-4725-E0	00D-4725-E0	00F-4725-E0		AJO-9296 for 4.6 mm ID

1.7 µm Minibore Columns (mm)			SecurityGuard <sup>™</sup> ULTRA Cartridges <sup>‡</sup>
50 x 2.1	100 x 2.1	150 x 2.1	3/pk
00B-4726-AN	00D-4726-AN	00F-4726-AN	AJO-9298 for 2.1 mm ID

<sup>‡</sup> SecurityGuard ULTRA Cartridges require holder, Part No.: AJO-9000

**Australia**  
t: +61 (0)2-9428-6444  
f: +61 (0)2-9428-6445  
auinfo@phenomenex.com

**Austria**  
t: +43 (0)1-319-1301  
f: +43 (0)1-319-1300  
anfrage@phenomenex.com

**Belgium**  
t: +32 (0)2 503 4015 (French)  
t: +32 (0)2 511 8666 (Dutch)  
f: +31 (0)30-2383749  
beinfo@phenomenex.com

**Canada**  
t: +1 (800) 543-3681  
f: +1 (310) 328-7768  
info@phenomenex.com

**China**  
t: +86 (0)20 2282-6668  
f: +86 (0)20 2809-8130  
chinainfo@phenomenex.com

**Denmark**  
t: +45 4824 8048  
f: +45 4810 6265  
nordicinfo@phenomenex.com

**Finland**  
t: +358 (0)9 4789 0063  
f: +45 4810 6265  
nordicinfo@phenomenex.com

**France**  
t: +33 (0)1 30 09 21 10  
f: +33 (0)1 30 09 21 11  
franceinfo@phenomenex.com

**Germany**  
t: +49 (0)6021-58830-0  
f: +49 (0)6021-58830-11  
anfrage@phenomenex.com

**India**  
t: +91 (0)40-3012 2400  
f: +91 (0)40-3012 2411  
indiainfo@phenomenex.com

**Ireland**  
t: +353 (0)1 247 5405  
f: +44 1625-501796  
eireinfo@phenomenex.com

**Italy**  
t: +39 051 6327511  
f: +39 051 6327555  
italiainfo@phenomenex.com

**Luxembourg**  
t: +31 (0)30-2418700  
f: +31 (0)30-2383749  
nlinfo@phenomenex.com

**Mexico**  
t: 001-800-844-5226  
f: 001-310-328-7768  
tecnicomx@phenomenex.com

**The Netherlands**  
t: +31 (0)30-2418700  
f: +31 (0)30-2383749  
nlinfo@phenomenex.com

**New Zealand**  
t: +64 (0)9-4780951  
f: +64 (0)9-4780952  
nzinfo@phenomenex.com

**Norway**  
t: +47 810 02 005  
f: +45 4810 6265  
nordicinfo@phenomenex.com

**Puerto Rico**  
t: +1 (800) 541-HPLC  
f: +1 (310) 328-7768  
info@phenomenex.com

**Spain**  
t: +34 91-413-8613  
f: +34 91-413-2290  
espinfo@phenomenex.com

**Sweden**  
t: +46 (0)8 611 6950  
f: +45 4810 6265  
nordicinfo@phenomenex.com

**United Kingdom**  
t: +44 (0)1625-501367  
f: +44 (0)1625-501796  
ukinfo@phenomenex.com

**USA**  
t: +1 (310) 212-0555  
f: +1 (310) 328-7768  
info@phenomenex.com

**All other countries  
Corporate Office USA**   
t: +1 (310) 212-0555  
f: +1 (310) 328-7768  
info@phenomenex.com

### www.phenomenex.com

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### Trademarks

Kinetex is a registered trademark and SecurityGuard and MidBore are trademarks of Phenomenex.

Kinetex EVO is patented by Phenomenex. U.S. Patent Nos. 7,563,367 and 8,658,038 and foreign counterparts.

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