

APPLICATION

Cold Medicine API Screen Using a Kinetex® EVO C18 Core-Shell LC Column

Matthew Trass and Simon Lomas
Phenomenex, Inc., 411 Madrid Ave., Torrance, CA 90501 USA

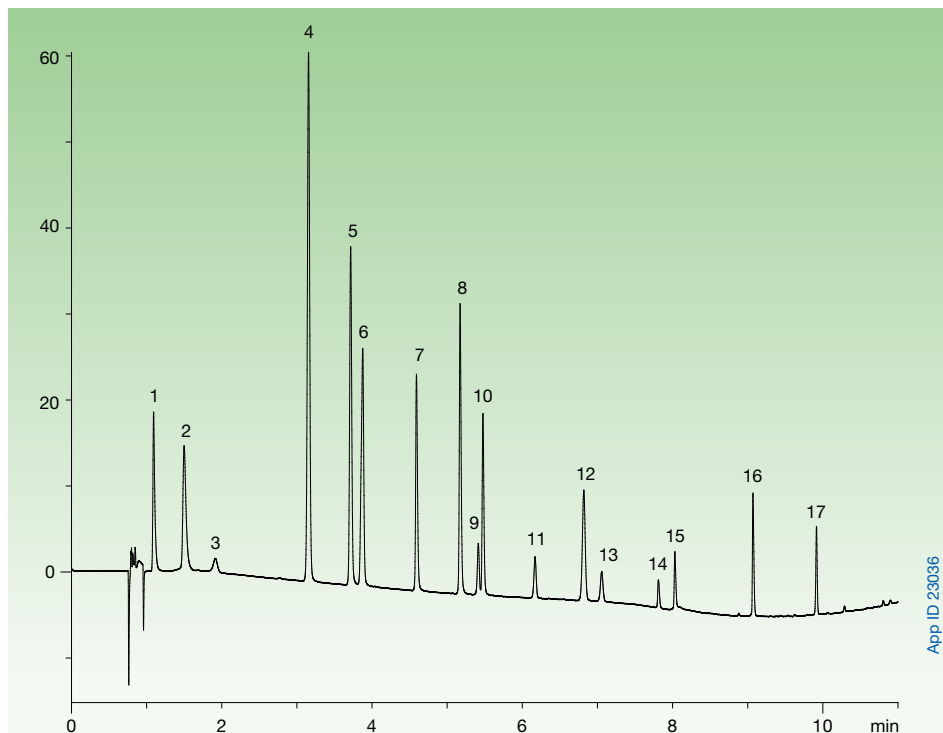
Overview

The current range of compounds aimed at the treatment of the common cold is quite large and comprises ingredients of a variety of chemical characteristics. This is the direct result of a diverse array of pharmaceutical formulations that contain more than one active ingredient and target multiple symptoms at once. With such a mixture of polar compounds, resolution, sensitivity, and speed are all important parameters. Using a high performance core-shell Kinetex 2.6µm EVO C18 column we achieve comprehensive resolution, narrow peak shapes, and a rapid analysis time. This ingredient screen can easily be used as a starting point for individual formulations as well as transferred between R&D and QC instrumentation due to the direct scalability of all three Kinetex EVO C18 particle sizes (1.7µm, 2.6µm, 5µm).

Find more information on Kinetex core-shell HPLC and UHPLC columns at:
www.phenomenex.com/kinetex

LC/UV Conditions

Column:	Kinetex 2.6µm EVO C18	
Dimensions:	100 x 4.6 mm	
Part No.:	00D-4725-E0	
Mobile Phase:	A: 0.1% TFA B: 0.1% TFA in Acetonitrile	
Gradient:	Time (min)	% B
	0	2
	6	30
	11	100
Flow Rate:	1.25 mL/min	
Temperature:	Ambient	
Detection:	UV @ 254 nm	
Sample:	1. Maleic acid 2. Fumaric acid 3. Phenylephrine 4. Acetaminophen 5. Pheniramine 6. Doxylamine 7. Pyrilamine 8. Chlorpheniramine 9. Guaifenesin 10. Brompheniramine 11. Acetylsalicylic acid 12. 4-Nitrophenol 13. Impurity 14. Dextromethorphan 15. Diphenhydramine 16. Clemastine 17. Ibuprofen	



APPLICATION

Ordering Information

Kinetex[®] EVO C18 Core-Shell LC Columns

5 µm Minibore Columns (mm)				SecurityGuard [™] ULTRA Cartridges [‡]
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 [™] Columns (mm)			SecurityGuard [™] ULTRA Cartridges [‡]
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 [™] ULTRA Cartridges [‡]
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 [™] ULTRA Cartridges [‡]
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 [™] Columns (mm)			SecurityGuard [™] ULTRA Cartridges [‡]
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 [™] ULTRA Cartridges [‡]
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 [™] ULTRA Cartridges [‡]
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

[‡] 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

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

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