

Reveleris® Amino and Diol Flash Cartridges

Silica flash cartridges, while effective for many applications, have their limitations for some compound classes like carbohydrates and lipids. For these applications, Grace Discovery Sciences has introduced the Reveleris® Amino and Diol Flash Cartridges.

Reveleris® Amino Flash Cartridges

- Ideal for polar and basic molecules
- Compounds such as carbohydrates, nitrogen containing heterocycles, amines, etc. which exhibit peak streaking and tailing with unbonded silica cartridges.

Reveleris® Diol Flash Cartridges

- Alternative selectivity to unbonded and reversed phase media
- Broad application to separate a variety of molecule polarity types including lipids

Reveleris® Bonded Flash Cartridges (up to 200 psig*)

Size	Qty	Amino Part No.	Diol Part No.	C18 Part No.*
4g	1	5157330	5157335	5152990
12g	1	5157331	5157336	5152103
40g	1	5157332	5157337	5152104
80g	1	5157333	5157338	5152105
120g	1	5157334	5157339	5152991
330g*	1	-	-	5164430

Reveleris® cartridges also available in Reverse Phase C18 Bonding

*330g cartridges have a pressure rating of 100 psig



Better Cartridges
Using Grace Silica

REVELERIS®



Better Together - Further Streamline Your Purifications by Combining Reveleris® Cartridges with the Most Advanced Flash System

Reveleris® Cartridge



Reveleris® X2 System



Enhanced Purification Benefits

Plug & Play

Automatic cartridge identification populates the system for size and phase of cartridge in use

Confidence in Results

Serial tracking of cartridges allows for tracking of cartridge use

Simplifying Purification

Specifically for compounds like carbohydrates and lipids, the RevealX™ technology allows maximum purity with minimal effort in a single system

Faster Runs

Optimize your purification with the Navigator software

Visit www.discoverysciences.com/FlashChromatography/ApplicationNotes.aspx to access the latest applications utilizing Reveleris® flash cartridges

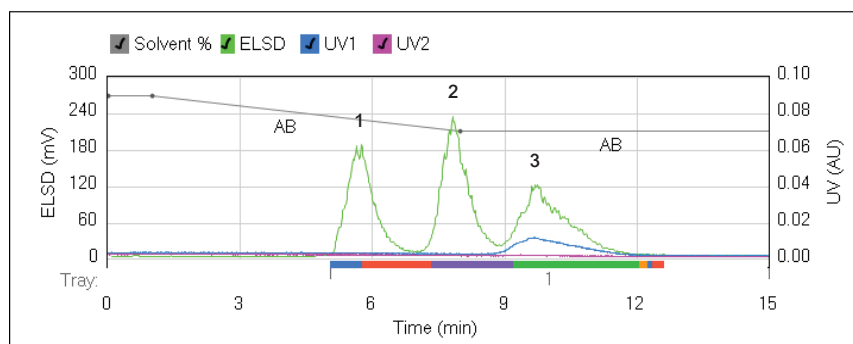


Reveleris® amino and diol bonded phases help chemists to overcome separation challenges in purification with benefits that include:

- Improved retention and resolution of varied polarity compounds
- Increased durability to withstand higher pressures (up to 200psi)
- Higher capacity for higher sample loads
- Tight particle size distribution and minimal fines for low backpressure
- Auto-recognition tagging simplifies instrument operations by prefilling method parameters
- Compatible with organic or aqueous mobile phases



Conjugated Carbohydrate Purification



Column: Reveleris® Amino 12g flash cartridges
Flow Rate: 36mL/min
Equilibration: 10.0min
Run Length: 15.0min

UV1 Wavelength: 220nm
UV2 Wavelength: 254nm
ELSD Carrier: Iso-propanol
Solvent A: Water with 0.1% TFA
Solvent B: Acetonitrile

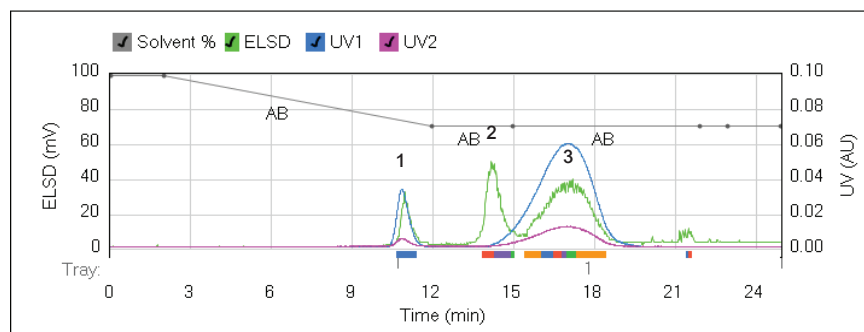
Gradient Table

Step	Min	Solvents	% 2nd
1	0.0	AB	90
2	1.0	AB	90
3	7.0	AB	70
4	7.0	AB	70

1. Glucose 25mg
2. Maltose 25mg
3. Acarbose 25mg

Purify even low-levels of chromophoric and non-chromophoric compounds with the amino phase cartridge and RevealX™ technology

Flavanone Glycoside Purification



Column: Reveleris® Amino 40g flash cartridges
Flow Rate: 40mL/min
Equilibration: 10.0min
Run Length: 25.0min

UV1 Wavelength: 220nm
UV2 Wavelength: 254nm
ELSD Carrier: Iso-propanol
Solvent A: Water
Solvent B: Acetonitrile

Gradient Table

Step	Min	Solvents	% 2nd
1	0.0	AB	99
2	2.0	AB	99
3	10.0	AB	70
4	13.0	AB	70

1. Hesperitin 20mg
2. Glucose 20mg
3. Neohesperidin 20mg

Combining the high capacity of the amino phase cartridge and RevealX™ technology, neohesperidin is isolated and purified from glucose

www.discoverysciences.com

REVELERIS® is a trademark, registered in the United States and/or other countries, of Alltech Associates, Inc. REVEALX™ is a trademark of Alltech Associates, Inc. GRACE® is a trademark, registered in the United States and/or other countries, of W. R. Grace & Co.-Conn. This trademark list has been compiled using available published information as of the publication date of this brochure and may not accurately reflect current trademark ownership or status. Alltech Associates, Inc. is a wholly owned subsidiary of W. R. Grace & Co.-Conn. Grace Discovery Sciences is a product group of W. R. Grace & Co.-Conn., which now includes all product lines formerly sold under the Alltech brand. Grace Materials Technologies is a business segment of W. R. Grace & Co.-Conn., which includes products formerly sold under the Grace Davison brand. © Copyright 2012 Alltech Associates, Inc. All rights reserved. The information presented herein is derived from our testing and experience. It is offered for your consideration and verification. Since operating conditions vary significantly, and are not under our control, we disclaim all warranties on the results that may be obtained from the use of our products. W. R. Grace & Co.-Conn. and its subsidiaries can not be held responsible for any damage or injury occurring as a result of improper installation or use of its products. Grace reserves the right to change prices and/or specifications without prior notification.

12/2012 M359a

W. R. Grace & Co.-Conn.
7500 Grace Drive, Columbia, MD 21044

Grace Discovery Sciences Regional Headquarters:

IN THE AMERICAS:
2051 Waukegan Road
Deerfield, IL 60015-1899
Tel: 1 847 948 8600
Fax: 1 847 948 1078
Email: discoverysciences@grace.com

IN EUROPE:
Brandstraat 12
B-9160 Lokeren, Belgium
Tel: +32 (0)9 340 65 65
Fax: +32 (0)9 340 65 60
Email: discoverysciences.EU@grace.com

IN ASIA:
19th Floor, K.Wah Center
1010 Huai Hai Zhong Road
Shanghai, 200031 PRC
Tel: 86 21 5467 4678
Fax: 86 21 5405 1500
Email: dsbiz.asia@grace.com

IN INDIA:
17 Commerce Center
Opposite Krishna Hospital, Paud Road
Pune, 411038 India
Tel: +91 20 6644 9900
Fax: +91 20 2544 1740
Email: pune@grace.com

IN AUSTRALIA/NEW ZEALAND:
2 Kerr Court
Rowville, 3178
Victoria, Australia
Tel: +61 3 9237 6100
Fax: +61 3 9237 6101
Email: discoverysciences.AU@grace.com

GRACE