

# Master Your Polar Molecules, Especially Under Water

New Agilent InfinityLab  
Poroshell 120 Aq-C18 columns

## Maximize reversed-phase retention for highly polar analytes with 100% aqueous mobile phases

Are you facing the challenge of analyzing large mixtures of compounds?  
With InfinityLab Poroshell 120 Aq-C18 columns, you can now develop separations  
that retain polar and nonpolar compounds together.

### InfinityLab Poroshell 120 Aq-C18 columns provide:

- Enhanced retention of challenging polar compounds
- 100% aqueous mobile phase compatibility—without phase collapse or dewetting
- Batch-to-batch reproducibility
- Scalability across all analytical HPLC and UHPLC systems

## Ordering Information

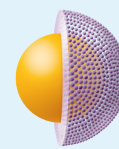
### InfinityLab Poroshell 120 2.7 µm columns

Size (ID x L)	Aq-C18 Part Number
2.1 x 30 mm	691775-742
2.1 x 50 mm	699775-742
2.1 x 100 mm	695775-742
2.1 x 150 mm	693775-742
3.0 x 50 mm	699675-742
3.0 x 100 mm	695675-742
3.0 x 150 mm	693675-742
4.6 x 50 mm	699975-742
4.6 x 100 mm	695975-742
4.6 x 150 mm	693975-742

### InfinityLab Poroshell 120 2.7 µm Fast Guards

Size (ID x L)	Aq-C18 Part Number
2.1 x 5 mm	821725-955
3.0 x 5 mm	823750-953
4.6 x 5 mm	820750-942

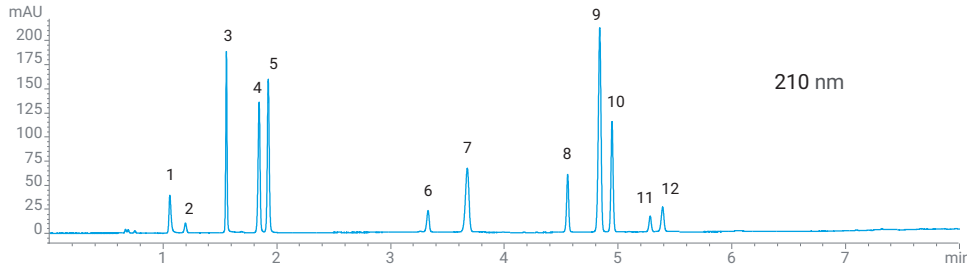
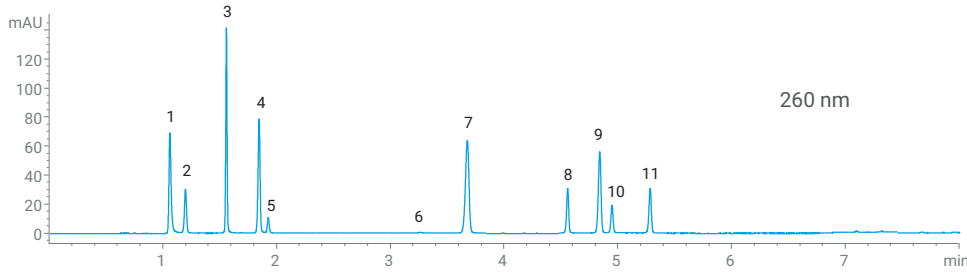
Agilent  
**InfinityLab**



### UHPLC performance at HPLC pressures

Superficially porous Agilent Poroshell 2.7 µm particle technology provides comparable speed and resolution to sub-2 µm totally porous particle columns with 50% less backpressure. That means easy method transferability between analytical LC systems.

## Find the perfect balance between retention and throughput by adding this new, powerful tool to your method development toolbox



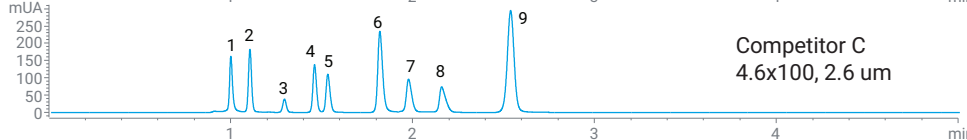
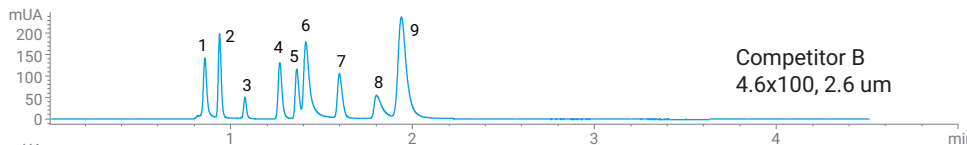
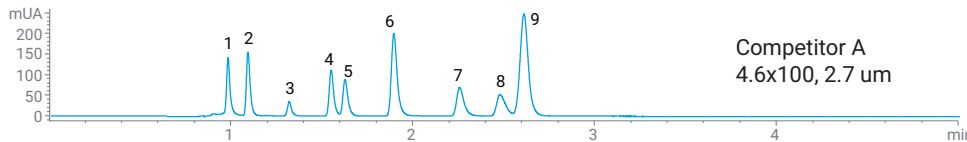
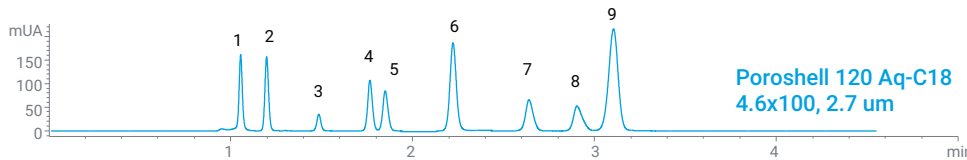
Water soluble vitamin separations with Aq-C18. A gradient start with 100% aqueous phosphate buffer.

### Conditions

Instrument: 1290 Infinity II Binary pump  
 Mobile phase: A: 10 mM NaH<sub>2</sub>PO<sub>4</sub> buffer with pH 2.5  
 B: 100% acetonitrile  
 Flow rate: 1.5 ml/min  
 Gradient: Time (min) %A %B  
 Initial 100 0  
 2 94 6  
 6 75 25  
 8 30 70  
 10 30 70  
 Temperature: 30 °C  
 Injection volume: 1 µL  
 UV wavelength: 260 nm/210 nm

### Compounds

1. Thiamine	7. Aminobenzoic acid
2. Ascorbic acid	8. Folic acid
3. Nicotinic acid	9. Caffeine
4. Nicotinamide	10. Cyanocobalamin
5. Pyridoxine	11. Riboflavin
6. Pantothenic acid	12. Biotin



### Conditions

Mobile phase: Isocratic  
 97.5% 0.1% H<sub>3</sub>PO<sub>4</sub>,  
 2.5% methanol  
 Flow rate: 1 ml/min  
 Temperature: 30 °C  
 Injection volume: 2 µL  
 UV wavelength: 210 nm

### Compounds

- Oxalic acid
- Tartaric acid
- Malic acid
- Lactic acid
- Acetic acid
- Maleic acid
- Citric acid
- Succinic acid
- Fumaric acid

Nine organic acid analysis comparison with competitors. Stronger retention, better resolution, and peak shape with the Aq-C18.

Need help finding the right LC column?

Use our LC Column eSelector Tools:

[www.agilent.com/chem/lc-column-eselector-tools](http://www.agilent.com/chem/lc-column-eselector-tools)

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This information is subject to change without notice.

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