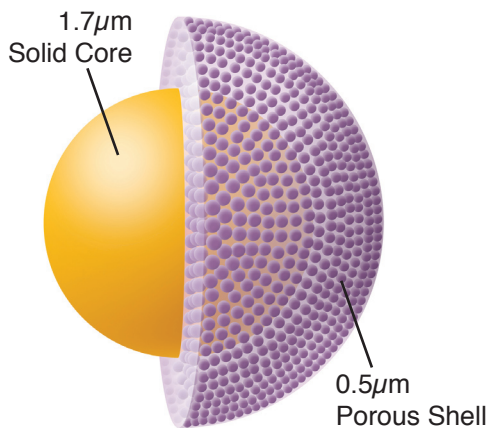


## Agilent Poroshell 120 Advancing capabilities for high performance HPLC



### Make every HPLC in your lab work harder.

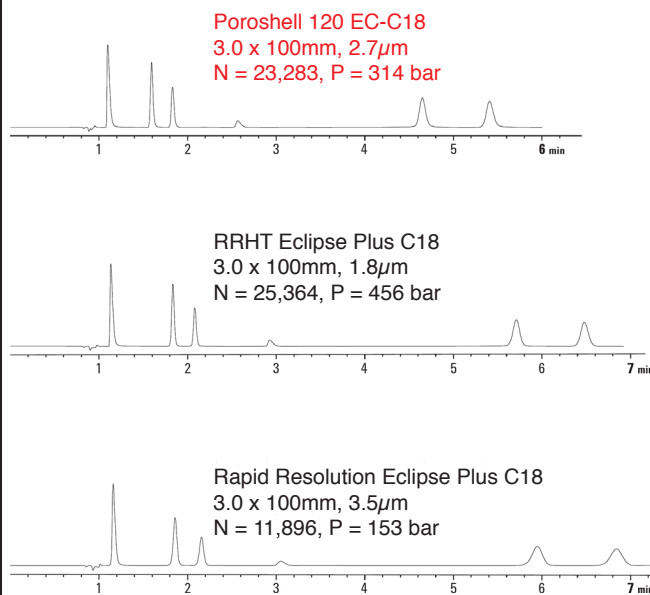
Now you can get the benefits of exceptional efficiency – more speed and more resolution – on your conventional HPLC instruments.

Poroshell 120 reinvents the technology introduced with Poroshell 300 to deliver the higher resolutions and faster separations that you have seen for proteins and polypeptides, but now for a complete range of small molecules. Poroshell 120 columns give you speed and resolution like a sub-2µm column with up to 50% less back pressure – **usually less than 400 bar**.

### Poroshell 120 highlights

- Up to two times the number of theoretical plates vs. conventional 3.5µm particles
- Improved resolving power, even as you take advantage of speed gains
- Lower back pressure than 2µm, even at higher flow rates
- More forgiving for dirty samples, due to 2µm frits
- Manufactured by Agilent, to Agilent's typical strict quality standards, and backed by Agilent worldwide technical support

>90% efficiency of sub-2µm, 2X efficiency of 3.5µm HPLC Pressure (<400 bar)



**Sample:** 1. Saccharin, 2. Caffeine, 3. P-hydroxybenzoic acid, 4. Aspartame, 5. Dehydroacetic acid, 6. Benzoic acid

**Conditions:**  
**Column:** 3.0 x 100mm, **Mobile Phase:** 65/35 0.2%, Formic acid/Methanol, Isocratic, **Flow Rate:** 0.5mL/min, 1µL injection 26°C, Sig = 220, 4nm, Ref = Off

## Chrom Tech, Inc.

“your chromatography specialists”

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# Agilent Poroshell 120

## Advancing capabilities for high performance HPLC

### Particle technology designed by Agilent for peak performance.

Agilent reinvented its superficially porous particle technology to make the best product for small molecule separations. We minimize the manufacturing steps involved, and even make the porous shell in just one step, to provide maximum particle reproducibility for the best chromatographic reproducibility. Agilent's Poroshell 120 particles have a 1.7µm solid core with a 0.5µm porous shell – so you get performance advantages of sub-2µm particles with back pressure that is comparable to a 3µm particle.

### Poroshell 120 columns: A true problem solver!

Poroshell 120 columns will help you tackle some of the throughput and resolution issues you deal with every day:

#### Problem

Your HPLC pressure specifications limit your particle size choice to a 3.5µm particle.

You enjoy the advantages of sub-2µm particles, but run into difficulty when you use dirty samples.

You have trouble getting the resolution you need for your highly sensitive analyses.

#### Solution

Poroshell 120 will give you 2x the efficiency of a 3.5µm particle. You'll get speed and resolution like a sub-2µm with HPLC pressures – usually below 400 bar.

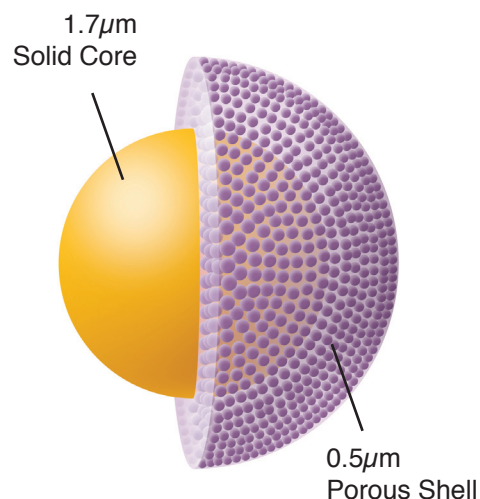
Poroshell 120 columns use a standard 2µm frit and resist plugging with dirty samples.

Longer Poroshell 120 columns will improve your resolution, and you can maximize your resolution using Poroshell 120 on a UHPLC.

### Poroshell 120 Ordering Information

More Poroshell 120 phases are coming soon!

Description	Size (mm)	Particle			
		Size	EC-C18	SB-C18	EC-C8
Analytical	4.6 x 150	2.7µm	693975-902	683975-902	693975-906
Analytical	4.6 x 100	2.7µm	695975-902	685975-902	695975-906
Analytical	4.6 x 75	2.7µm	697975-902	687975-902	697975-906
Analytical	4.6 x 50	2.7µm	699975-902	689975-902	699975-906
Analytical	4.6 x 30	2.7µm	691975-902	681975-902	691975-906
Solvent Saver	3.0 x 150	2.7µm	693975-302	683975-302	693975-306
Solvent Saver	3.0 x 100	2.7µm	695975-302	685975-302	695975-306
Solvent Saver	3.0 x 75	2.7µm	697975-302	687975-302	697975-306
Solvent Saver	3.0 x 50	2.7µm	699975-302	689975-302	699975-306
Solvent Saver	3.0 x 30	2.7µm	691975-302	681975-302	691975-306
Narrow Bore	2.1 x 150	2.7µm	693775-902	683775-902	693775-906
Narrow Bore	2.1 x 100	2.7µm	695775-902	685775-902	695775-906
Narrow Bore	2.1 x 75	2.7µm	697775-902	687775-902	697775-906
Narrow Bore	2.1 x 50	2.7µm	699775-902	689775-902	699775-906
Narrow Bore	2.1 x 30	2.7µm	691775-902	681775-902	691775-906



More phases are coming soon!

Visit [www.chromtech.com](http://www.chromtech.com) for updates on Poroshell 120.