

COMPLETE MORE SMALL-MOLECULE SFC SEPARATIONS IN LESS TIME

The Measure of Confidence

Agilent Poroshell 120 and ZORBAX RRHD Sub-2 μm Columns

Supercritical Fluid Chromatography (SFC) uses carbon dioxide as an HPLC mobile phase for faster diffusion and lower viscosity. As a result, separations can be accomplished 3-5 times faster than traditional HPLC. SFC also allows columns to be re-equilibrated quickly, for very high-throughput sample processing.

Typically, a dedicated SFC column would be your only choice when you wanted to employ the advantages of SFC.

Now you have two *additional* column options for your SFC analysis

In addition to providing reversed-phase method development flexibility, **Agilent Poroshell 120** and **ZORBAX RRHD sub-2 μm columns** contain chemistries that make them suitable for SFC systems, particularly the **Agilent 1260 Infinity Analytical SFC System**. That means you can:

- ▶ **Improve efficiency** for *all* reversed-phase, normal phase, and SFC separations.
- ▶ **Save money** by reducing solvent disposal costs and performing fast SFC separations.
- ▶ **Save time:** Poroshell 120 Phenyl-Hexyl, Bonus RP, EC-CN, and HILIC columns let you achieve very fast separations – less than 3.5 minutes.

Poroshell 120 superficially porous columns provide high efficiencies similar to sub-2 μm particles – but at a fraction (40-50%) of the backpressures, due to their slightly larger particle size. Likewise, the lower backpressures created in SFC systems allow totally porous ZORBAX RRHD sub-2 μm columns to be used in the SFC separations of polar analytes.



Now you can enhance performance – and capitalize on the increased diffusion characteristics of SFC – for very fast, high-throughput separations.

For more information, or to place your order, visit agilent.com/chem/poroshell120 or agilent.com/chem/RRHD



Agilent Technologies

Unique polar chemistries deliver SFC selectivity without the exclusive use of a dedicated SFC column

While SFC is popular with chiral separations, it is also well suited for small pharmaceutical analytes.

The following chromatograms show the SFC separation of pharmaceutical samples using three Agilent Poroshell 120 bonded phases. By using three phases, we were able to dramatically change both resolution and selectivity.

Note that each separation was completed in less than 3.5 minutes – with a flow rate of 2.5 mL/min and backpressures under 200 bar.



Pressed for time?

Our easy online tool helps you quickly find the best LC columns and Sample Prep products for your application.

Get started now with the LC Column and Sample Prep Navigator at agilent.com/chem/navigator

Learn more – or order online – now

For Poroshell 120 columns, visit agilent.com/chem/poroshell120

For ZORBAX RRHD columns, visit agilent.com/chem/RRHD

Or find your local Agilent Representative or Agilent Authorized Distributor at agilent.com/chem/contactus

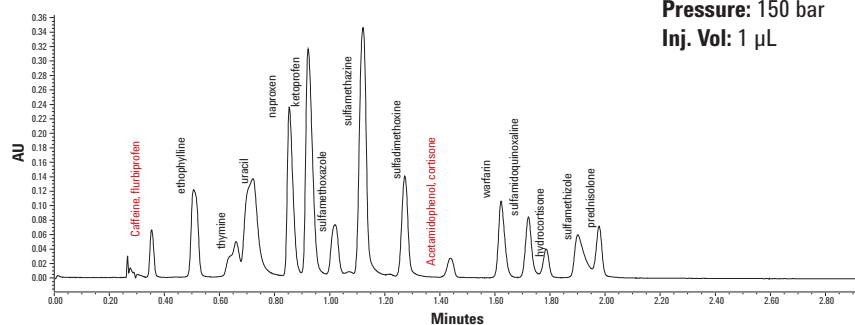
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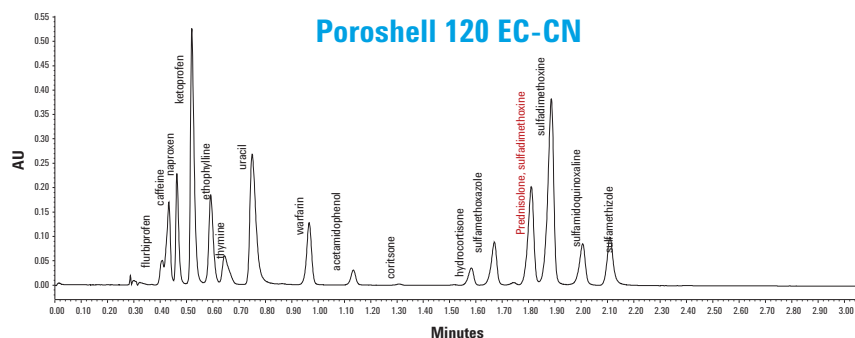
5-20% in 4 mins

Poroshell 120 Bonus-RP

Column temp: 55 °C
Flow rate: 2.5 mL/min
Pressure: 150 bar
Inj. Vol: 1 µL



Poroshell 120 EC-CN



Poroshell 120-HILIC

