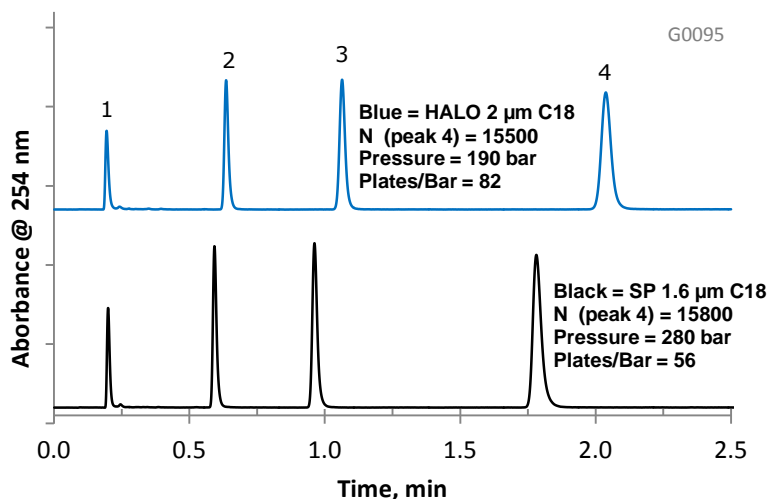


Comparable Efficiency of HALO 2 C18 (2 µm Fused-Core®) and 1.6 µm Superficially Porous (SP) C18 Columns



PEAK IDENTITIES:

1. Uracil
2. Pyrene
3. Decanophenone
4. Dodecanophenone

TEST CONDITIONS:

Column 1: 2.1 x 50 mm, HALO 2 µm C18
Part Number: 91812-402
Column 2: 2.1 x 50 mm, Superficially Porous 1.6 µm C18

Mobile Phase: 15/85: A/B

A= Water

B= Acetonitrile

Flow Rate: 0.5 mL/min

Pressure: See chart

Temperature: 25°C

Detection: UV 254 nm, PDA

Injection Volume: 0.2 µL

Sample Solvent: 20/80: Water/Acetonitrile

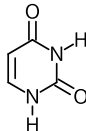
Response Time: 0.16 sec.

Flow Cell: 1 µL

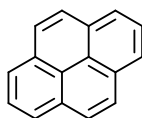
LC System: Shimadzu Nexera

ECV: ~ 7 µL

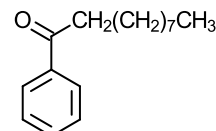
STRUCTURES:



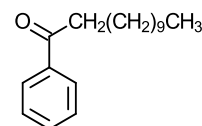
Uracil



Pyrene



Decanophenone



Dodecanophenone

With a HALO 2 C18 column, one can achieve the same performance at only 68% of the back pressure of a competitor's superficially porous 1.6 µm C18 column.