

Very Fast Separation of 16 EPA PAHs on NUCLEODUR® C18 PAH, 1.8 µm

Method: HPLC

Matrix

Application-No.: 124200

Substances: naphthalene; acenaphthylene; acenaphthene; fluorene; phenanthrene; anthracene; fluoranthene; pyrene; benz[a]anthracene; chrysene; benzo[b]fluoranthene; benzo[k]fluoranthene; benzo[a]pyrene; dibenz[ah]anthracene; benzo[ghi]perylene; indeno[1,2,3-cd]pyrene

Column: EC 50/4 NUCLEODUR® C18 PAH, 1.8 µm

Phase: [NUCLEODUR® C18 PAH, 1.8 µm](#)

REF number: 760771.40

Sample pretreatment: Concentration: 10 ng/µL each compound

Conditions:
Eluent A: acetonitrile
Eluent B: methanol / water (80:20, v/v)
Gradient: 90 % B for 0.1 min, 90-3 % B in 0.6 min, 3 % B for 1.8 min
Flow rate: 1.5 mL/min
Temperature: 30 °C
Injection volume: 0.5 µL

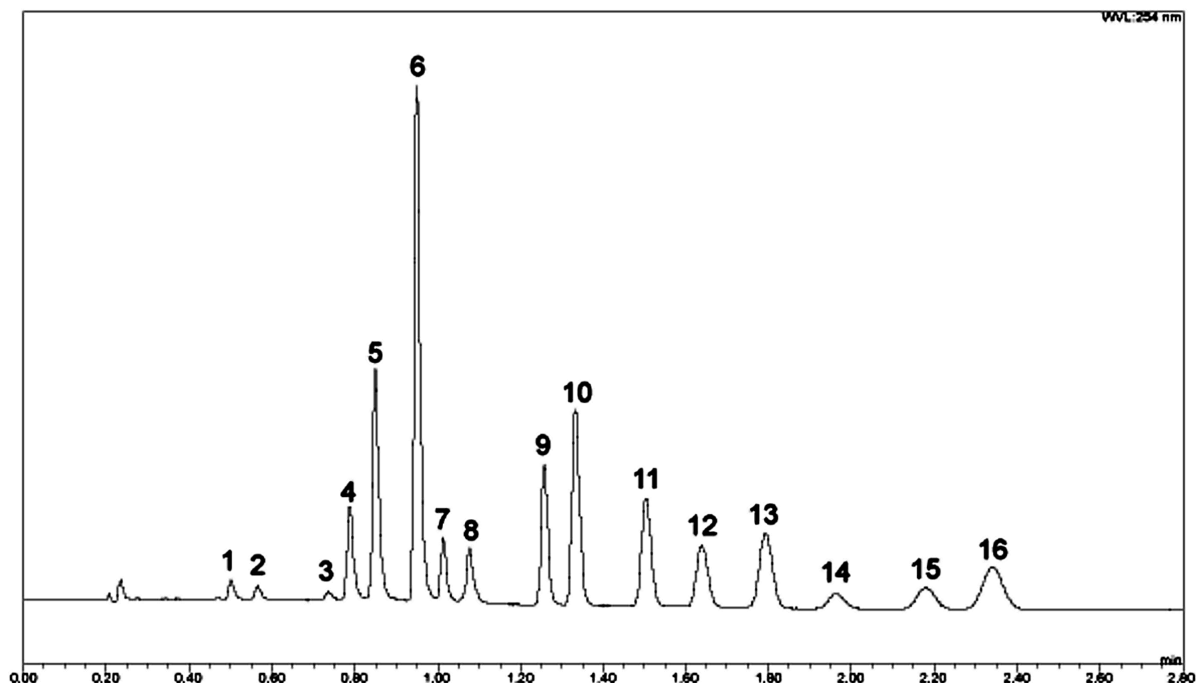
Detection: UV, 254 nm

Author(-s): HPLC department

Source: MACHEREY-NAGEL, Germany 2010

Keywords: EPA; PAHs; fast separation; ultra-fast HPLC; sub-2 µm phase

Chromatogram:



Legend:

- 1 - Naphthalene
- 2 - Acenaphthylene
- 3 - Acenaphthene
- 4 - Fluorene
- 5 - Phenanthrene
- 6 - Anthracene
- 7 - Fluoranthene
- 8 - Pyrene
- 9 - Benz[a]anthracene
- 10 - Chrysene
- 11 - Benzo[b]fluoranthene
- 12 - Benzo[k]fluoranthene
- 13 - Benzo[a]pyrene
- 14 - Dibenz[ah]anthracene
- 15 - Benzo[ghi]perylene
- 16 - Indeno[1,2,3-cd]pyrene

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