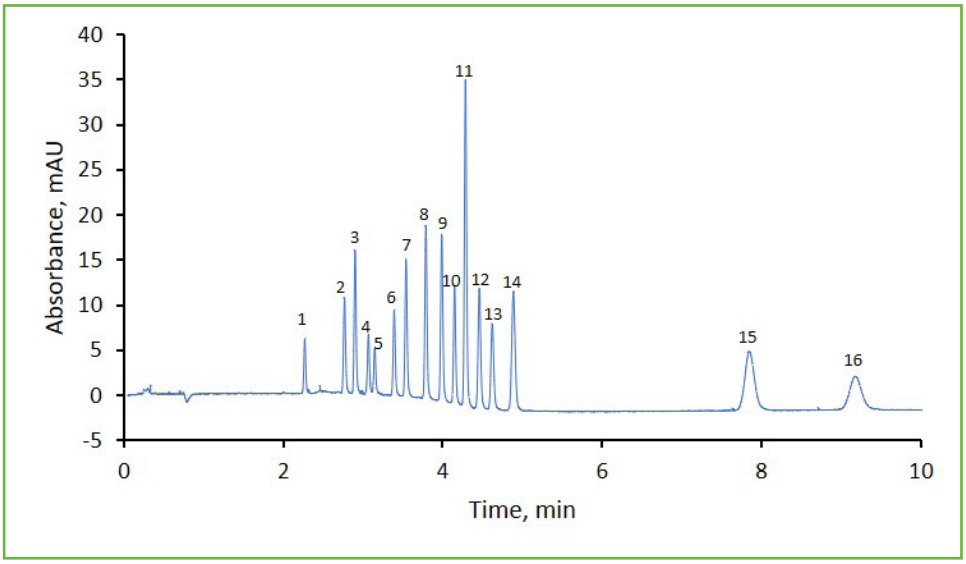
HALO®

ENVIRONMENTAL



Separation of EU 15 + 1 using HALO® PAH

235-P



PEAK IDENTITIES

1. Benzo[c]fluorene
2. Cyclopenta[cd]pyrene
3. Benzo[a]anthracene
4. Chrysene
5. 5-Methylchrysene
6. Benzo[j]fluoranthene
7. Benzo[b]fluoranthene
8. Benzo[k]fluoranthene
9. Benzo[a]pyrene
10. Dibenzo[a,l]pyrene
11. Dibenz[a,h]anthracene
12. Benzo[ghi]perylene
13. Indeno[1,2,3-cd]pyrene
14. Dibenzo[a,e]pyrene
15. Dibenzo[a,i]pyrene
16. Dibenzo[a,h]pyrene

TEST CONDITIONS:

Column: HALO 90 Å PAH, 2.7 µm, 4.6 x 50 mm
Part Number: 92844-412
Mobile Phase **A:** Water
B: Acetonitrile

Gradient:

Time	%B
0.00	50
4.00	100
15.00	100
15.01	50

Flow Rate: 1.8 mL/min
Temperature: 30 °C
Detection: 292 nm
Injection Volume: 10 µL
Data Rate: 20 Hz
LC System: Acquity UPLC I-Class
Data Courtesy of Hall Analytical Laboratories, Ltd.

The EU 15 + 1 list of PAH compounds was established by the European Commission in 2005 specifically for food analysis. The list contains eight of the EPA's priority PAHs along with eight other compounds that are known carcinogens. The separation is completed on a 4.6 x 50 mm HALO® PAH column in less than ten minutes with excellent resolution between the critical pairs 4 and 5 which only differ by the presence of a methyl group.

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031 336 90 00 • www.scantecnordic.se



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