S*PURE Application Note - Environmental

PAH's in Cereal



SPF Conditions

Procedure using SEClute™ C18-Max SPE tube, 500mg/6mL (Part #5138767)

Sample Treatment: Weighed out 5 grams crushed toasted oat cereal, spike with 20µg of each PAH, add 30mL 2-propanol and homogenize. Filter with 75mL filter column (Part #210775). Bring up to 200mL with deionized water and shake.

Conditioning: 2 x 5mL of methanol, then 5mL of 85% water/15% 2-propanol.

Sample Application: Attach 75mL reservoir (Part #210575) with a syringe adapter (Part #210705) and apply entire sample.

Wash: 2 x 500uL of 85% water/15% 2-propanol. Dry columns for 10 minutes at full vacuum.

Elution: Elute PAHs with 2 x 1mL CH2Cl2 and adjusted the volume to 1mL by evaporating under a gentle nitrogen stream.

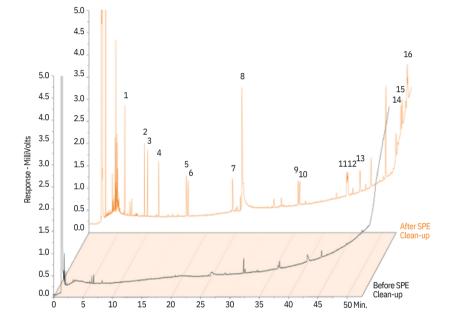
GC Conditions

AT 5ms columns, (Part #15807), as follows:

Oven: 80°C (1min hold) to 160°C at 25°C/min, to 300°C at 3°C/min, to 325°C (3 min hold) at 25°C/min

Injector: 270°C FID: 340°C

Split Ratio: 50:1, 14.0psig, helium Linear Velocity: 28cm/sec (at 80°C)



- 1. Naphthalene
- 2. Acenaphthylene
- 3. Acenaphthene
- 4.Fluorene
- 5.Phenanthrene
- 6.Anthracene 7.Fluoranthene
- 8.Pyrene
- 9. Benzo(a)anthracene
- 10. Chrysene 11.Benzo(b)fluoranthene
- 12.Benzo(k)fluoranthene
- 13.Benzo(a)pyrene
- 14.Indeno(1,2,3-cd)pyrene
- 15.Dibenzo(a,h)anthracene
- 16.Benzo(ghi)perylene

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