

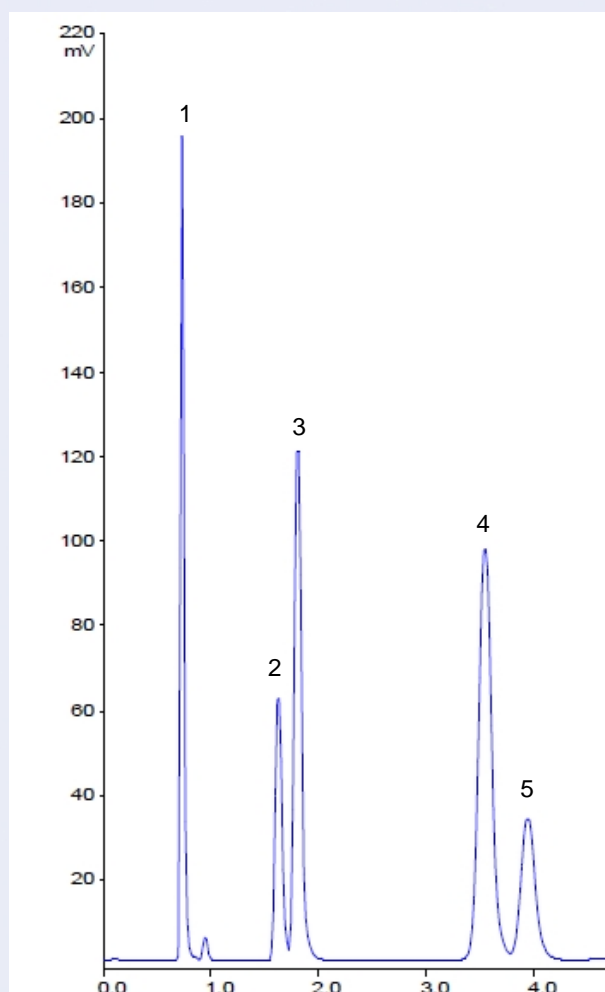


**Nitro-PAH,
Analytical HPLC**

**A simple HPLC method for the
analysis of Nitro-PAH**

**Author: WS
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Polycyclic Aromatic Hydrocarbons (PAH) are compounds of broad interest, as they are ubiquitous in the environment and have been identified partially as carcinogenic, mutagenic and teratogenic. Nitrated Polycyclic Aromatic Hydrocarbons (Nitro-PAH) can be formed from PAH in the environment by reaction with nitrogen oxides (NO_x), especially under intensive sunlight. They can be found in particulate matter but also in toners of photocopiers, where they are formed by the reaction of PAH with NO_x in the presence of ozone. Because of the carcinogenic and mutagenic potential of Nitro-PAH, monitoring their presence in the environment is of great importance. For this purpose a simple, isocratic method is presented here, allowing to separate five of the Nitro-PAHs in approximately 4 min.



Column	YMC PAH, 3 µm, 50 x 4.0 mm ID
Mobile Phase:	acetonitrile / water (55/45)
Flow rate:	2.0 ml/min
Detection:	220 nm
Inj.-Vol:	3 µL
Temp:	25°C

Sample:
1. 1-Nitronaphthalene
2. 9-Nitroanthracene
3. 3-Nitrofluoranthene
4. 2-Nitrofluorene
5. 1-Nitropyrene
Conc.: 0.1-0.5 mg/ml

Ordering information for the column:

Art.-No.: YP99S030504QT

Price: 370€