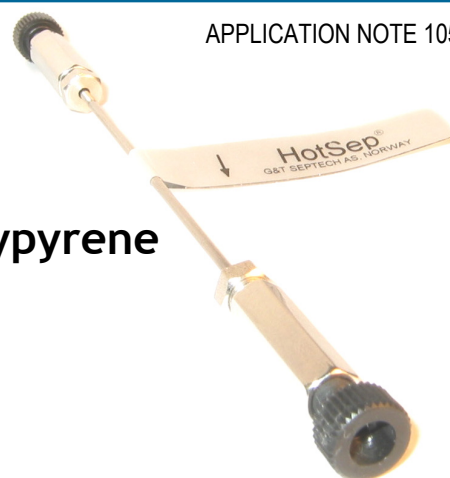


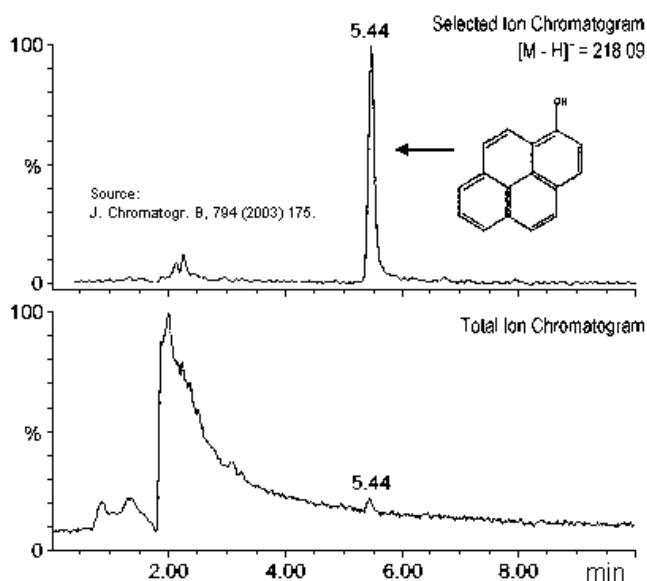
Nano HPLC-ESI-MS: Determination of Urinary 1-Hydroxypyrene



App No: 105

PAH Metabolites

Column: 3.5 μ Kromasil C18 100Å
Dimensions: 0.1 x 100 mm
Order No.: P-111-0110
Mobile Phase: MeCN-5 mM NH₄AC (70:30)
Flow Rate: 800 nL/min
Temp.: 25C
Detection: ESI-MS



Comments:

Determination of PAH metabolites in urine from exposed individuals has proven to be a reliable and accurate method for measurement of PAH exposure, and the primary metabolite of pyrene, 1-hydroxypyrene (1-OHP), has been adapted as a general biomarker for overall PAH exposure.

Sample preparation: 100 μ L samples of urine were deconjugated, diluted with water and filtered before loading.

LOD for 1-OHP: 20 pg/mL in diluted urine and 0.3 ng/mL in urine.

Trap column used for column-switching:
 HotSep® Tracy: 10 μ Kromasil C18 100Å, 0.3 x 5 mm (Part No: T-181-03)

ORDERING INFORMATION: HotSep® Kromasil C18, 3.5 μ , 100Å

ID	5 cm	10 cm	15 cm	25 cm	Guard	Guard/5pk
1.0 mm	S-111-1005	S-111-1010	S-111-1015	S-111-1025	G-111-10-1	G-111-10-5
0.5 mm	S-111-0505	S-111-0510	S-111-0515	S-111-0525	G-111-05-1	G-111-05-5
0.3 mm	S-111-0305	S-111-0310	S-111-0315	S-111-0325	G-111-03-1	G-111-03-5
0.1 mm	---	S-111-0110	S-111-0115	---	---	---
75 μ m	---	S-111-00710	S-111-00715	---	---	---