

HPLC Application

ID No.: 24525

Cannabinoids from Human Urine Using Strata-X-C and Luna Omega 3µm Polar C18 100x3.0mm

Column: Luna® Omega 3 µm Polar C18 100 Å, LC Column 100 x 3.0 mm, Ea

Dimensions: 100 x 3 mm ID

Order No: 00D-4760-Y0

Elution Type: Gradient

Eluent A: 0.1% formic acid

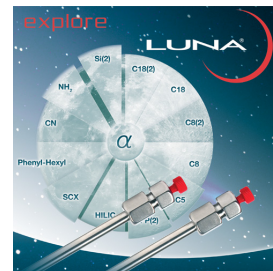
Eluent B: 0.1% formic acid/methanol

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
| | 1 | 0 | 90 | 10 |
| | 2 | 2 | 5 | 95 |
| | 3 | 4 | 5 | 95 |
| | 4 | 4.01 | 90 | 10 |
| | 5 | 6 | 90 | 10 |

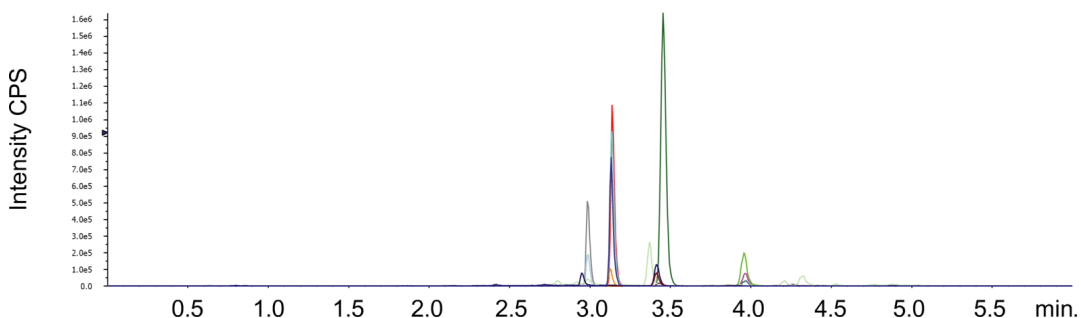
Flow Rate: 0.6 mL/min

Col. Temp.: 25 °C

Detection: Tandem Mass Spec (MS-MS) @ (25 °C)
24525



Products used in this application:



ANALYTES:

- 1** AB-FUBINACA
Retention Time: 2.99 min
- 2** XLR-11 4-Hydroxypentyl metabolite
Retention Time: 3.13 min
- 3** AB-PINACA
Retention Time: 3.15 min
- 4** THC-OH
Retention Time: 3.38 min
- 5** THC-COOH
Retention Time: 3.43 min
- 6** APINACA (AKB-48) 5-Hydroxypentyl metabolite
Retention Time: 3.47 min
- 7** THC
Retention Time: 3.99 min



Sample Preparation Details

for HPLC Application ID No.: 24525

Cannabinoids from Human Urine Using Strata-X-C and Luna Omega 3µm Polar C18 100x3.0mm

PRODUCT DESCRIPTION:

Strata[™]-X-C 33 µm Polymeric Strong Cation, 30 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S029-TBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

3-4 mins at 10-15" of Hg

Elute:

Final Prep and Analysis:

Sample Prep Product: Strata-X-C, 30 mg/3 mL (Part No. 8B-S029-TBJ)

Sample pre-treatment

Inject: 20 µL on HPLC Tandem Mass Spec (MS-MS) @ (25°C)

| ANALYTES: | Spiked Conc. (ng/mL) | Log P | pKa | % Rec | %RSC (n=0) |
|---|-------------------------|-------|-----|-------|---------------|
| 1 AB-FUBINACA | 50 | | | 85 | |
| 2 XLR-11 4-Hydroxypentyl metabolite | 50 | | | 79 | |
| 3 AB-PINACA | 50 | | | 83 | |
| 4 THC-OH | 50 | | | 79 | |
| 5 THC-COOH | 50 | | | 52 | |
| 6 APINACA (AKB-48) 5-Hydroxypentyl metabolite | 50 | | | 86 | |
| 7 THC | 50 | | | 50 | |

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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