

# HPLC Application

ID No.: 24526

## Separation of Isobaric cannabinoids AB-PINACA and THC-OH on 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

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

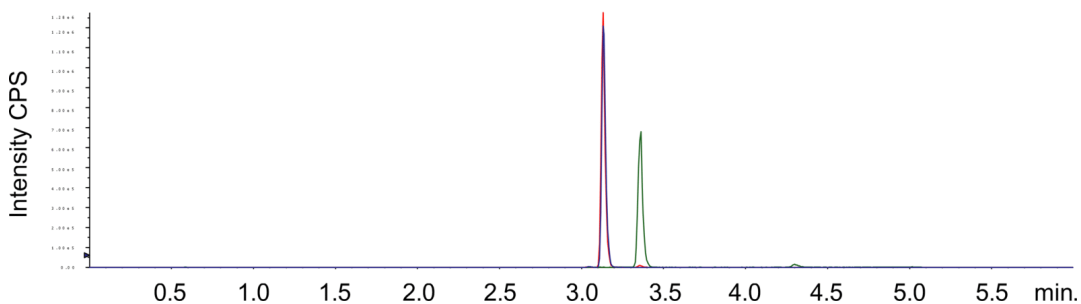
**Flow Rate:** 0.6 mL/min

**Col. Temp.:** 25 °C

**Detection:** Tandem Mass Spec (MS-MS) @ (25 °C)  
24526



Products used in this application:



### ANALYTES:

- 1** AB-PINACA  
Retention Time: 3.15 min
- 2** THC-OH  
Retention Time: 3.38 min

# Sample Preparation Details

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### 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:

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#### Load:

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#### Wash:

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#### Dry:

3-4 mins at 10-15" of Hg

#### Elute:

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#### Final Prep and Analysis:

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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-PINACA	50				
2 THC-OH	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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