

Tetrahydroiso- α acids extracted from beer by Strata-X using Kinetex C18 2.6 μ m 100x4.6 mm

Column: Kinetex® 2.6 μ m C18 100 Å, LC Column 100 x 4.6 mm, Ea

Dimensions: 100 x 4.6 mm ID

Order No: 00D-4462-E0

Elution Type: Isocratic

Eluent A: Methanol

Eluent B: Water

Eluent C: Phosphoric acid

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B	Pct C
	1	0	75	24	1

Flow Rate: 1.4 mL/min

Col. Temp.: ambient

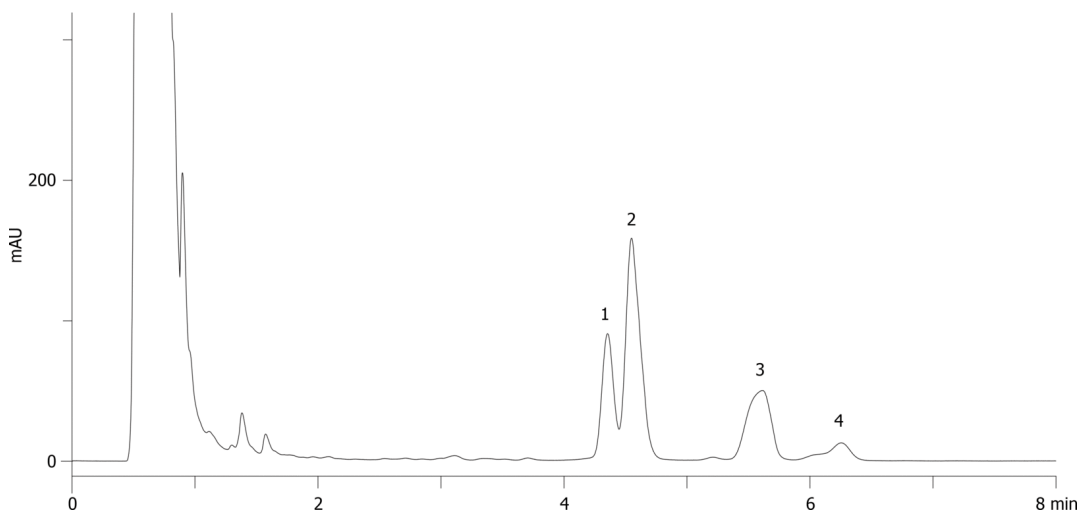
Detection: UV-Vis Abs.-Variable Wave.(UV) @ 270 nm (ambient)

Analyst Note: SecurityGuard™ ULTRA Guard Cartridge System extends column lifetime.

- SecurityGuard ULTRA Cartridges, UHPLC C18 for 4.6mm ID Columns, 3/Pk Part No.: AJ0-8768

- Holder Part No.: AJ0-9000

19486



ANALYTES:

- 1 trans-Tetrahydroisocohumulone
- 2 cis-Tetrahydroisocohumulone
- 3 Tetrahydroisohumulone
- 4 Tetrahydroisoadhumulone



Products used in this application:



Sample Preparation Details

for UHPLC Application ID No.: 19486

Tetrahydroiso-alpha acids extracted from beer by Strata-X using Kinetex C18 2.6µm 100x4.6 mm

PRODUCT DESCRIPTION:

Strata[™]-X 33 µm Polymeric Reversed Phase, 200 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S100-FCH

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 200 mg bed mass.

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

Condition:

Load:

Beer was degassed by stirring for 30 min

Wash:

Dry:

5 min @ >10 inches of Hg

Elute:

Final Prep and Analysis:

Inject: 50 µL on HPLC UV-Vis Abs.-Variable Wave.(UV) @ 270 nm (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 trans-Tetrahydroisocohumulone	0				
2 cis-Tetrahydroisocohumulone	0				
3 Tetrahydroisohumulone	0				
4 Tetrahydroisoadhumulone	0				

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 info@phenomenex.com



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