

## International Calibration Standards

for HPLC Analysis of Isomerized & Reduced Isomerized  $\alpha$ -Acids

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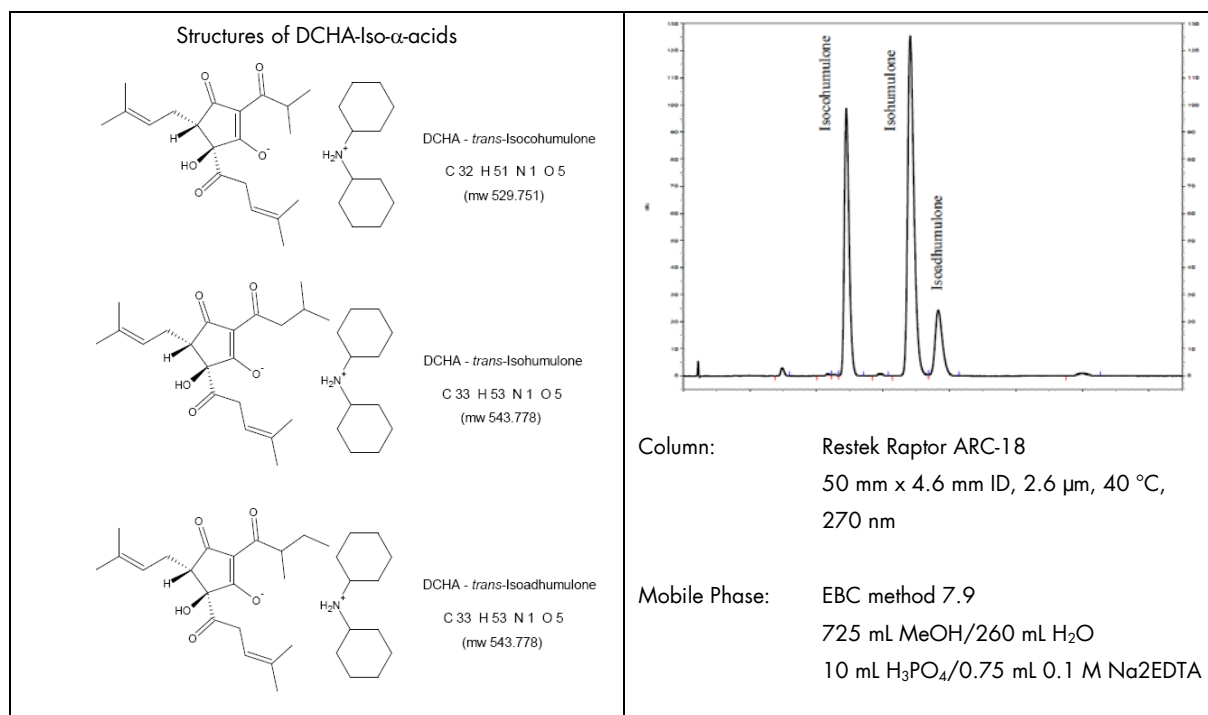
### DCHA-Iso, ICS-I4

A purified, semi-crystalline preparation of trans-iso- $\alpha$ -acids in dicyclohexylamine («DCHA») salt form. Derived from CO<sub>2</sub> extracted and isomerized  $\alpha$ -acids of hops.

**Total Iso- $\alpha$ -acids: 65.2 %(w/w)**

The above figure was determined by the International Subcommittee for Isomerized Hop  $\alpha$ -Acids Standards and takes into account **only** the major forms of the iso- $\alpha$ -acids that are present:

- trans-isocohumulone,
- transisohumulone
- trans-isoadhumulone



Storage: -20 °C, gas-tight under CO<sub>2</sub> or N<sub>2</sub>

Country of origin/produced: USA

**Not for human consumption. Intended use is for industrial and analytical purposes.**

Rev. 02/Nov 2018

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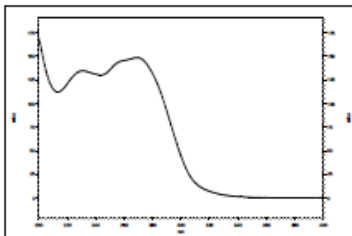
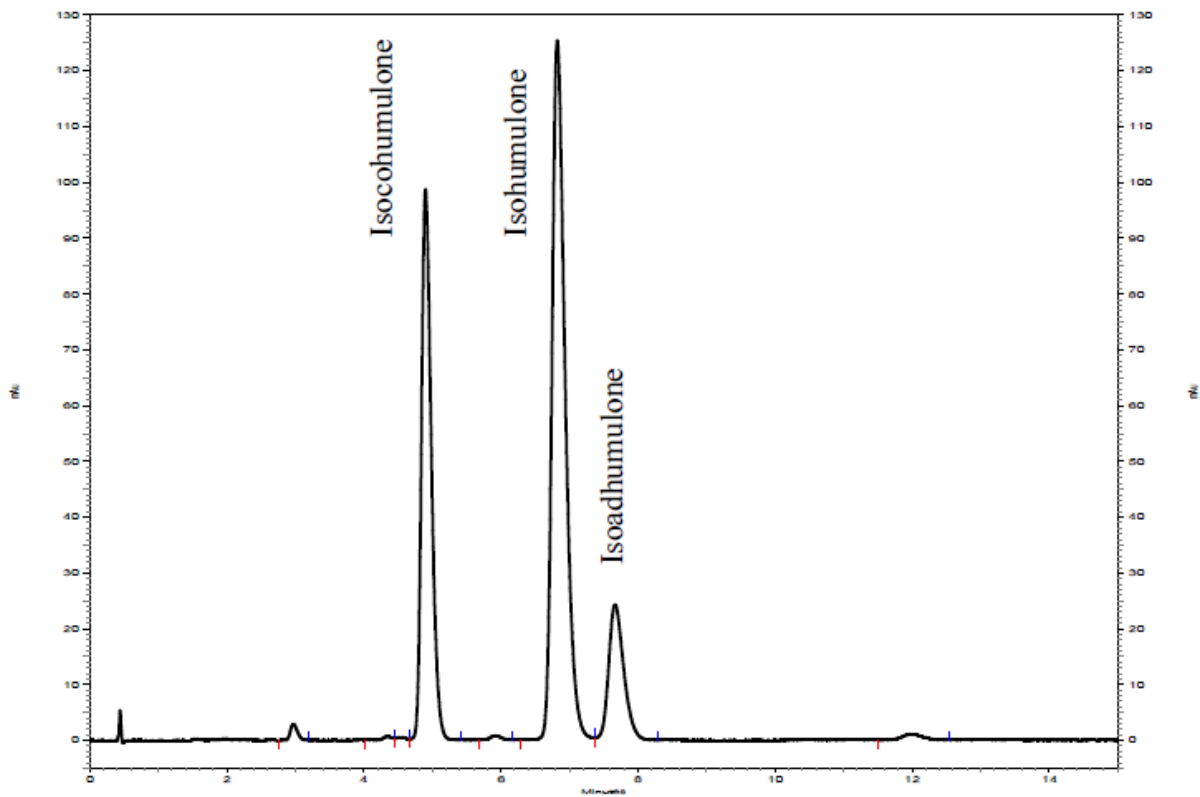
### DCHA-ISO ICS-I4

International Hop Standards Committee

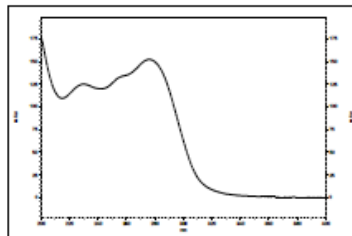
Data acquired by: Jeremy Leker 6/22/2017

Column: Restek Raptor ARC-18 at 270nm 50mm x 4.6mm x 2.6um at 40C

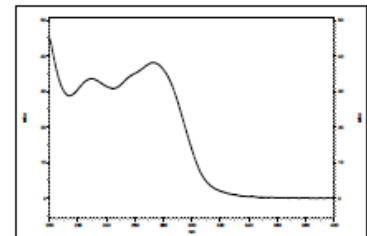
Mobile Phase: 725mL MeOH/ 260mL H<sub>2</sub>O/ 10mL H<sub>3</sub>PO<sub>4</sub>/ 0.75mL 0.1M Na<sub>2</sub>EDTA



Isohumulone



Isohumulone



Isoadhumulone

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### DCHA-ISO ICS-14

International Hop Standards Committee

Data acquired by: Jeremy Leker 6/22/2017

Column: Restek Raptor ARC-18 at 270nm 50mm x 4.6mm x 2.6um at 40C

Mobile Phase: 725mL MeOH/ 260mL H<sub>2</sub>O/ 10mL H<sub>3</sub>PO<sub>4</sub>/ 0.75mL 0.1M Na<sub>2</sub>EDTA

