



PRODUCT SPECIFICATION

PRODUCT NAME:

BetaStab[®] XL

Statement of Conformance

BetaTec[®] Hop Products guarantees that all lots of BetaStab[®] XL produced after the revision date meet the following specification.

Description

BetaStab[®] XL is a proprietary aqueous formulation of hop acids emulsified with food grade fatty acids.

Storage

Store at 5 – 25 °C (41 – 77 °F). Keep container closed and out of direct sunlight and prevent from freezing (above 0 °C/32 °F).

Regulatory Information

Hops and hop extracts are general recognized as safe (GRAS) in accordance with the US FDA regulation 21 CFR 182.20. Fatty acids are food additives permitted for direct addition to food for human consumption in accordance with US FDA regulation 21 CFR 172.860.

<u>Characteristic</u>	<u>Specification</u>	<u>Method</u>
Appearance:	Hazy Amber/brown liquid	Visual
Identification (HPLC):	Meets test	HPLC
Assay		
As hop acids by HPLC (w/w):	8.5% - 9.5%	HPLC
pH:	10.5 – 11.5	pH meter
Lead:	Less than 1 ppm	ICP ⁽¹⁾
Cadmium:	Less than 1 ppm	ICP ⁽¹⁾
Chromium:	Less than 1 ppm	ICP ⁽¹⁾
Arsenic:	Less than 1 ppm	ICP ⁽¹⁾
Mercury:	Less than 1 ppm	AFS ⁽²⁾

(1) Inductively Coupled Plasma

(2) Atomic Fluorescence Spectrometry

This product is manufactured on behalf of BetaTec[®] by John I. Haas, Inc., Yakima, Washington USA

efficient by nature[®]

The information herein is given in good faith and relates only to the specific material designated. It does not relate to use in combination with any other material or in any process. Responsibility for use is disclaimed since this is beyond our control.

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