



Certificate of Analysis

**Product Name: HopAlpha® ISO 30%****TNS Product code: HA-46006****Batch: D1423****Date of Manufacture (MM/YYYY): 08/2020****Best Before Date (MM/YYYY): 08/2022**

ANALYTICAL	TARGET		RESULTS
Appearance:	Yellow/Brown/Amber liquid		Yellow liquid.
Odour	Hoppy, resinous, complies with retained sample		Characteristic.
Analytical Characteristics (EBC 7.9)	IAA	30.0% ± 1.0%	29.78% (w/w)
	Alpha Acids	<0.4%	Complies.
	Beta Acids	<0.1%	Complies.
	Density	1.060 – 1.080kg m ⁻³	1.072
	pH of 2% of IAA in deionised water	8- 10	9.0
Shelf Life:	2 years from manufacture		

Issued by (printed name and signature): John Cooper.

Date: 27.08.2020