

## **Certificate of Analysis**

## **CERTIFICATE OF ANALYSIS**

| Customer:        | SBI                  | Order #:    | 3429   |
|------------------|----------------------|-------------|--------|
| Product:         | HopAlpha® Tetra (9%) | Reference:  | SO2357 |
| Quantity:        | 1 x 1 kg Net         | Lot Number: | 733    |
| Production Date: | May 2019             |             |        |

| <u>Parameter</u>                                    | <u>Specification</u>             | <u>Actual</u> |
|---|----------------------------------|---------------|
| Appearance  | A golden-yellow aqueous solution | ОК            |
| Aroma   | Characteristic hop aroma         | OK            |
| Tetra-hydro-iso-α-acids (THIAA) via<br>HPLC         | 9.0 +/- 0.3 % w/w                | 9.28 % w/w    |
| Area Purity via HPLC                                | >85 %                            | 93.37 %       |
| pH (standard solution)                              | 8.5 – 11.0                       | 10.2          |
| pH (1% solution)                                    | >9.0                             | 9.6           |
| Density   | 1.020 ± 0.010 kg/L               | 1.025         |
| Haze (1% w/w solution in deionised water, EBC 9.16) | <0.5 EBC Units                   | Conforms      |

Method: EBC 7.9 using ICS-T3 Recommended

Legal requirements

storage conditions:

Store in a cool, dry place, avoiding exposure to direct sunlight.

| In ambient conditions (10 – 25°C)  | 2 Year after packaging |
|------------------------------------|------------------------|
| 11 411516116 65114161515 (16 25 6) | 2 rear arter packabing |

Conforms to Codex Alimentarius

Date: August 2019

Certificate issued by: Lawrence Raybould Production Assistant For and on behalf of Totally Natural Solutions Limited