



## ALPHAEXTRACT 20%

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### OVERVIEW

**AlphaExtract 20%** is a pure, aqueous solution of natural alpha acids in the form of potassium salts, derived from CO<sub>2</sub> hop extract.

Alpha acids are unique to hops and naturally inhibit the growth of gram positive bacteria, such as Lactobacillus. Approximately 20 ppm of **AlphaExtract 20%** can inhibit the growth of most gram positive bacteria under ideal conditions.

**AlphaExtract 20%** is food grade, kosher and not an antibiotic.

### SPECIFICATIONS

<b>Short description</b>	aqueous hop extract
<b>Alpha acids</b>	20.0 ± 1.0 % (w/w) HPLC
<b>pH</b>	6 mPas (20 °C / 68 °F)
<b>Density</b>	ca. 1.05 g/ml (20 °C / 68 °F)
<b>Viscosity</b>	300 - 1000 mPas (20 °C / 68 °F)

### PROPERTIES

#### APPEARANCE

Yellow to amber in color, homogeneous, aqueous solution.

#### QUALITY

All Hopsteiner® products are processed in facilities which fulfill internationally recognized quality standards.

### PACKAGING

Our products are delivered in their respective recommended standard packaging. Alternatives may be possible upon customer request.

Standard packages of our processing plants in the USA (US) and Germany (DE) are:

- Pail 20 kg (US)

### USAGE

We recommend that AlphaExtract 20% be used in its undiluted form. It is not difficult to pump and is compatible with the usual materials used in food processing plants.

## DOSAGE

Actual dosage will depend on the application, but typically 20 - 100 ppm of AlphaExtract 20% is effective as an antibacterial agent.

## STORAGE

The recommended storage temperature in the original unopened packaging is 1 - 5 °C (34 - 41 °F).  
Avoid exposure to sunlight.

## BEST BEFORE DATE

Under the recommended storage conditions, the shelf life from the date of production/ packaging is at least 1 year.

## SAFETY

Ensure good ventilation of the workplace and wear personal protective equipment. Avoid contact with eyes and skin. Do not inhale vapors or dusts. For full safety information, please refer to the relevant Hopsteiner® safety data sheet.

## ANALYTICAL METHODS

International approved methods listed in committees such as ASBC or Analytica-EBC using current standards are applied.

## PRODUCT ANALYTICS

Concentration of bitter substances

- Analytica-EBC 7.7 (HPLC)
- ASBC Hops-14 (HPLC)

## TECHNICAL SUPPORT

We are pleased to offer assistance and advice on:

- safety data sheets
- support for brewing trials on a pilot or commercial scale
- analytical services and information about analytical procedures

Disclaimer: The information provided in this document is believed to be correct and valid. However, Hopsteiner® does not guarantee that the information provided here is complete or accurate and thus assumes no liability for any consequences resulting from its application.

## PATENT

AlphaExtract 20% is covered by US Patent 9,796,955.

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