

Mash Liquefaction

SIHAZYM[®] SupraMash

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Highly Active Pectinase for Maximum Mash Liquefaction

SIHAZYM[®] SupraMash is a granulated enzyme preparation, produced from a pure *Aspergillus aculeatus* strain culture. SIHAZYM[®] SupraMash is a highly active pectinase preparation for optimum liquefaction of high-quality fruit mashes.

The enzyme preparation was developed for promoting complete mash disintegration, thus ensuring optimum subsequent yeast growth. In addition to increased alcohol yield, the application of SIHAZYM[®] SupraMash during the mashing process also leads to increased release of primary fruit flavors.

The application of SIHAZYM[®] SupraMash with fruit mashes has the following benefits:

- ▶ Maximum mash liquefaction through highly active enzymes
- ▶ Increased pumpability of fruit mashes
- ▶ Increased release of fruit flavors
- ▶ Optimum conditions for complete fermentation
- ▶ Higher final attenuation and increased alcohol yield

Application

A diluted 1:10 solution (1 part enzyme:10 parts water/must) is recommended for ensuring intense mixing of the SIHAZYM[®] SupraMash enzyme preparation with the respective mash medium. Subsequent continuous dosage of the enzyme solution during the mashing process ensures complete distribution in the fermentation vessel. Additional mixing through pumping and stirring promotes optimum distribution of the enzyme preparation.

Important:

SIHAZYM[®] SupraMash has to be in intense contact with the mash to be disintegrated in order to ensure complete mash disintegration.

Dosage

Application medium	Fermentation temperature (°C)	Dosage (g/100 kg)
Fruit mashes	12 – 30	3 – 5

Activity

SIHAZYM[®] SupraMash has a pectinase activity of 10000 FDU/g at 20 °C. The standard activity (measured in FDU - Ferment Depectinization Units) is determined by measuring the depectinization of a substrate.

The most effective temperature range for the enzyme application is 15 - 40 °C. If the mash temperature is below 15 °C, the quantities should be increased by approximately 50 %.

Safety

SIHAZYM[®] SupraMash is a granulated, easily soluble micro-granulate without preservatives. SIHAZYM[®] SupraMash complies with the FCC and JECFA recommendations for food enzymes with the following limit values:

Total bacterial count 5 x 10⁴ CFU/g
Coliform bacteria 10² CFU/g

When used and handled correctly, there are no known unfavorable effects associated with SIHAZYM[®] SupraMash.

An EU safety data sheet is available on request.

Storage

As a granulated product, SIHAZYM[®] SupraMash should be stored dry at no more than 25 °C.

At a storage temperature of less than 25 °C, the enzyme preparation will retain its specified activity over several years.

Delivery Information

SIHAZYM[®] SupraMash has the article number 95.207.001 and is available in 100 g cans. A dosing spoon for a 10 g enzyme dosage is available free of charge.

HS customs tariff: 3507 90 90

Certified Quality

During the production process, SIHAZYM® SupraMash is constantly monitored to ensure consistently high quality. These inspections cover technical function criteria as well as conformance with the relevant laws governing the production and sale of foodstuffs. Strict controls are carried out immediately before and during final packaging.



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The logo for BEGEROW, featuring the word "BEGEROW" in a bold, red, sans-serif font. The letters are centered between two horizontal grey bars. A small red diamond is positioned above the letter 'E' and another below it.