

Product Sheet



Glucanex[®] 200 G

A unique beta-glucanase for winemaking

Description

Glucanex is a beta-glucanase preparation produced by submerged fermentation of a *Trichoderma harzianum* microorganism which has not been genetically modified. Glucanex has been especially developed in order to improve the clarification and filtration of wines produced from *Botrytis*-infected grapes. This improvement is the result of a selective enzymatic degradation of the glucan produced in the grapes by *Botrytis cinerea*. This polysaccharide is a beta-1,3-1,6-glucan.

Product properties

Activity

Glucanex glucanase activity 200 BGXU/g

The product is a light-brown, soluble microgranulate without preservatives.

Activity determination

The beta-glucanase activity is measured on *Botrytis* glucan. A detailed description of Novozymes' analytical methods (BGXU: NNFCH 15) is available on request.

Packaging

Glucanex is available in 100 g tins packed in 1 kg boxes.

Food-grade status

The product complies with the following FCC and JECFA requirements: Antibiotic activity (Not detected), Mycotoxins (Not detected), Heavy metals (<30 ppm), Lead (< 5 ppm), Arsenic (< 3 ppm).

Application

Glucanex can be used in all cases where the aim is to improve clarification and filterability of wines made from botrytized grapes. Glucanex can be added to the wine any time between the first racking and the filtration.

It is recommended to treat the wines after the alcoholic fermentation in order to benefit from the higher temperature. The simultaneous use of Glucanex and bentonite should be avoided. Preferably, the glucanase treatment should be made prior to bentonite treatment.

The use of SO₂ up to 500 ppm has no influence on the enzyme activity.

Glucanex is added as a 10% solution directly into the tank. The temperature

during enzymatic treatment should preferably be above 12°C and treatment time at least 2 weeks.

Young white or rosé wine..... 1-3 g/hl or 38-114 g/1000 gal
(after alcoholic fermentation)

Solubility

The active enzyme components of Glucanex are readily soluble in water or must at all concentrations occurring in normal usage.

Safety

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

The product is developed to resist mechanical effects. However, excessive mechanical wear and tear or crushing may create dust. All spills, even small spills should be removed immediately. Use respiratory protection. Major spills should be carefully shovelled into plastic-lined containers. Small spills and remains of large spills should be removed by vacuum cleaning or flushing with water (avoid splashing). Vacuum cleaners and central vacuum systems should be equipped with HEPA filters. Wear suitable protective clothing, gloves and eye/face protection as prescribed on the warning label. Wash contaminated clothes.

Material Safety Data Sheets are supplied with all products. Further information describing how to handle the product safely is available on request.

Storage

Recommended storage conditions are 0-25°C in unbroken packaging, dry and protected from the sun. The product has been formulated for optimal stability. However, enzymes gradually lose activity over time. Extended storage or adverse conditions, including higher temperature or high humidity, may lead to a higher dosage requirement.



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