



Product Description and Specification

DEXTRANASE ST

Dextranase ST can hydrolyze α -1,6 glucosidic linkage of dextran. This enzyme is produced by *Chaetomium sp.* Dextran is a polysaccharide which is composed of α -1,6 linkage glucose unit. This polysaccharide is produced by some microorganisms such as *Leuconostoc mesenteroides*. When harvesting sugar cane is damaged climatically or mechanically and such microorganisms would attack the damaged portion, the microorganism will assimilate the cane sugar and produce viscous dextran.

At a cane sugar refinery, dextran-containing juice shows low filtration rates and poor crystallization of sucrose. Dextranase ST is an endo-splitting type dextranase and hydrolyzes the dextran rapidly. Accordingly, usage of Dextranase ST improves the purification process of cane sugar eliminating the interference of dextran in filtration and crystallization.

Features

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|-----------------------------|---|-----------------------------------|
| 1. Light brown liquid | | |
| 2. Optimum pH | : | 5.0 |
| 3. Optimum temperature | : | 60°C |
| 4. Stable pH range | : | 5.0 – 8.0 |
| 5. Stable temperature range | : | below 75°C (in 60% (W/W) Sucrose) |

Specification

Dextranase activity	pH5.8	Not less than 3,000 u/ml
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Storage

Please store in a cool and dry place, avoid exposure to light.

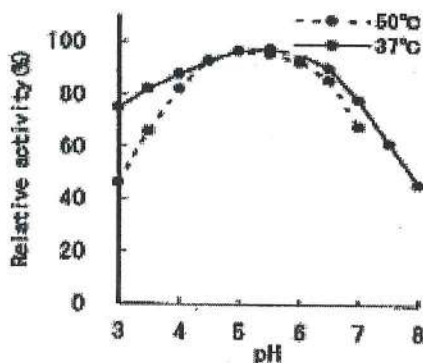
Handling caution

1. Do not inhale
2. In occasion of direct contact with skin or eye, immediately wash or rinse with plenty of water.
3. Please refer to MSDS for the details

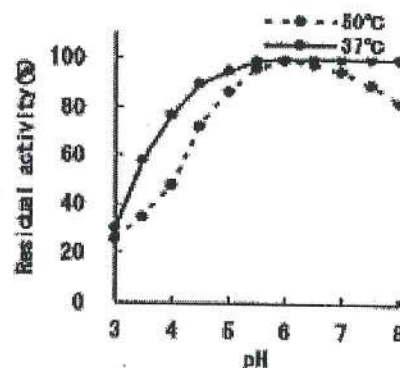
General properties

Following results were obtained for the enzyme solution in some buffers. Please check at appropriate conditions for your applications.

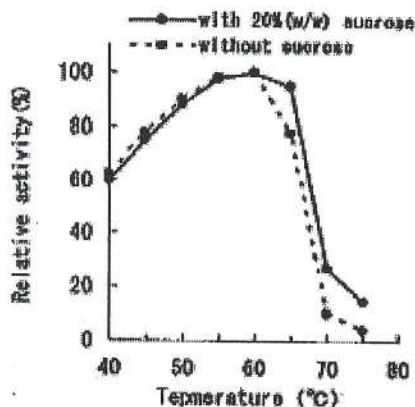
pH and Activity



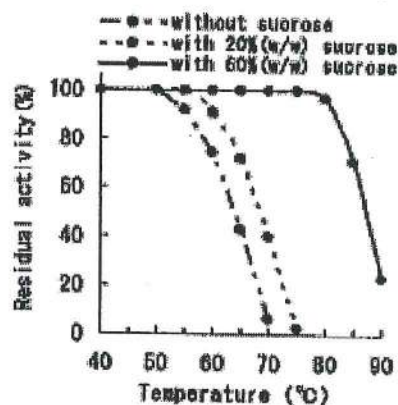
pH stability



Temperature and Activity



Thermostability



The information and recommendations contained herein are to the best of our knowledge reliable according to the current scientific and technical level. However, depending upon use method and/or condition, nothing herein is to be construed as a warranty or representation in respect otherwise, including freedom from patent infringement. Users shall make their own test and investigation for their particular purpose. We do not accept any liability for any loss, damage or infringement arising from the use of information and recommendations contained herein.

Dosage and Use of Dextranase ST

Dextranase ST is recommended at a dosage of 30 - 50ppm based on cane. The dosage depends on the dextran level.

Typically Dextranase ST is dosed into the second or (preferably) third stage evaporator where the temperature is in the range of 60 – 65°C or below.

Packaging

Dextranase ST is available in 25kg jerry cans.