



EnerZyme HT

Glucoamylase for the saccharification of starch

Product description

Highly concentrated glucoamylase (exo-1.4- α -D-glucosidase: EC.3.2.1.3.) from *Aspergillus niger* for the degradation of hydrolysed starch.

Typical applications for EnerZyme HT are:

- complete saccharification of liquefied starch, respectively its dextrans and oligomers
- prevention of starch-derived cloudiness in fruit beverages
- degradation of utilizable residual dextrans in dietetic beers

Dosage

EnerZyme HT is well effective within a pH-range of 3.4 - 6.0 and at temperatures up to 65 °C. Exact dosage recommendations depend on the aim of application.

Saccharification during the production of alcohol from starch raw materials:	500 mL/ton applied raw material
Safe starch degradation in the production of apple juice concentrate:	10 - 25 mL/1,000 L juice (12 °Bx)
Minimization of the residual extract in dietetic beers:	2 - 5 mL/100 L green beer

Enzyme characteristics: the activity range of EnerZyme HT is between pH 2.5 and pH 6.5, the optimum is at pH 3.8 - 4.2. The temperature range of the enzyme is between 25 °C and 80 °C, the temperature optimum is at 65 °C. The diagrammes 1 and 2 show the influence of temperature and pH-value on the enzyme activity of EnerZyme HT.

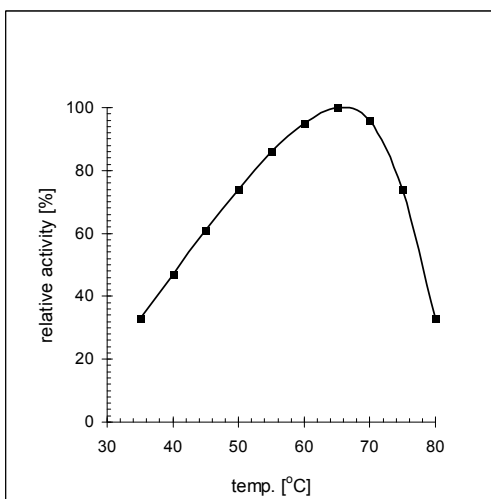


Fig 1: Influence of temperature on activity (30 % maltodextrin DE18, pH 4.0).

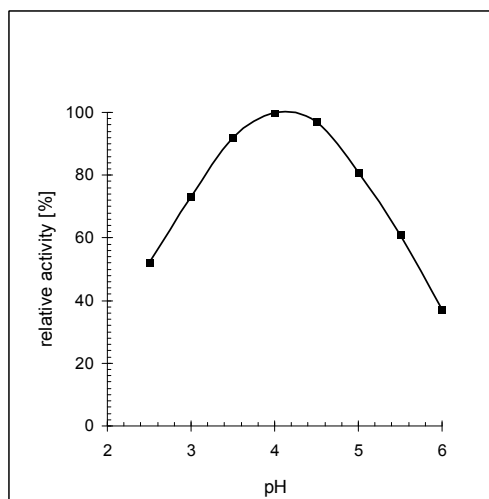


Fig 2: Influence of pH-value on activity (30 % maltodextrin DE18, 60 °C).

Storage

Best storage conditions are 0 - 10 °C. Higher temperatures will cause shortage of product shelf life. Avoid temperature above 25 °C. Reseal open packages and use completely on short term.