



GLUCOAMYLASE [®]

DESCRIPTION

Glucoamylase is an enzyme preparation which decomposes starch into glucose by tearing-off glucose units from the non-reduced end of the polysaccharide chain.

It is derived by submerged fermentation of a specially selected producer strain of *Asp. niger*.

UNITS OF ACTIVITY

Enzyme activity is expressed in glucoamylase units, representing the amount of enzyme which catalyses liberates 1 μ mol of glucose from 1% of starch solution in 1 min, at pH - 4.7, and at T - 30°C.

STANDARDS

1 000 / 4 000 U/g

PHYSICAL PROPERTIES

External appearance - powder and liquid

Colour - brown

Dry substance - over 35%

Solubility - water-soluble enzyme component

APPLICATION

For saccharification of liquid starch in the preparation of amylaceous hydrolysates and of crystal glucose, in the brewing of beer with low dextrine content, in the production of bread and juices.

STORAGE

Liquid preparation - in dry and well ventilated facilities in maximum temperature 10°C

Powder or granules - in the original container, well-closed, in dry and well-ventilated facilities, protected from direct sunlight.

SHELF LIFE

To maintain optimum enzyme activity, this product should be stored in a cool, dry place in a tightly sealed container. When properly stored, this product can be expected to lose less than 10% of its activity in twelve months for powdered form and six months for liquid preparation.

PACKING

Liquid preparation Plastic drums of 20, 40, 60 or 120 litres.

Powder or granules - Polyethylene bags of 10, 15 and 20 kg.

Biovet's enzymes are [®] KOSHER certified products. They are produced by non-GM micro organisms.

ENZYME PROPERTIES

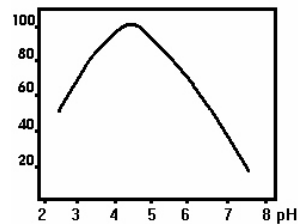
Optimum of pH of action - 4.5

Optimum temperature of action - 55-60°C

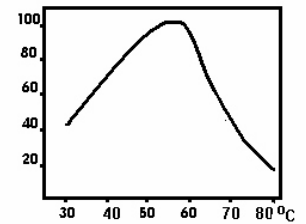
pH stability - 100% of the activity is preserved at pH between 3.5 and 5.5, at temperature of 30°C, during 30 and 60 minutes

Temperature stability - more than 100% of activity is preserved at temperature of 50°C during 60 minutes

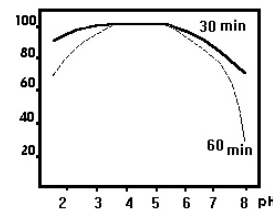
ACTIVITY%



ACTIVITY%



RESIDUAL ACTIVITY%



RESIDUAL ACTIVITY%

