Invertase from Candida sp.

IVH-101

SPECIFICATIONS

Product name	β-D-fructofuranoside fructohydrolase
EC	3.2.1.26
Appearance	White amorphous powder lyophilized
Activity	Grade I, 100 U/mg-solid or more (containing approx. 70% of stabilizers)
Stabilizers	KH_2PO_4
Stability	Stable at - 20°C for at least 12 months
Molecular weight	approx. 260,000
Michaelis constant	1.5×10^{-2}M (Saccharose)
Structure	Glycoprotein containing ca. 50% of carbohydrates
Optimum pH	3.5 - 4.0
Optimum temperature	60 - 70°C
pH Stability	pH 4.0 - 6.0 (50°C, 10min)
Thermal stability	below 60°C (pH 4.5, 10min)
Substrate specificity	The enzyme hydrolyzes saccharose and raffinose, but does not hydrolyze inulin and melezitose.

ENZYMES BY SORACHIM

Invertase from Candida sp.

IVH-101

SPECIFICATIONS

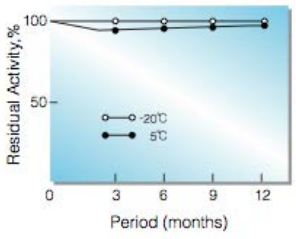

Fig.1. Stability (Powder form)
(kept under dry conditions)

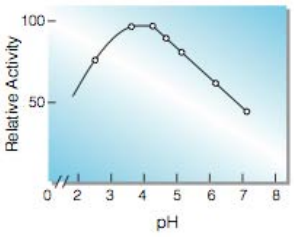

Fig.2. pH-Activity
[20℃, 3min-reaction in the following buffer solution:pH2~3,0.1M glycine-HCl; pH4~5,50mM acetate ; pH6~7,50mM phosphate]

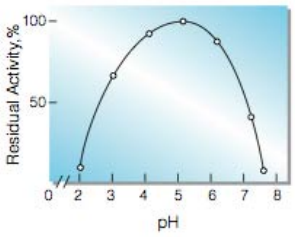

Fig.4. pH-Stability
[50℃, 10min-treatment with the following buffer solution: pH2~3,0.1M glycine-HCl; pH4~5,50mM acetate; pH6~8,50mM phosphate]

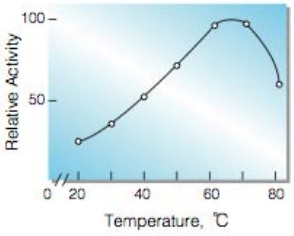

Fig.3. Temperature activity
[3min-reaction in 50mM acetate buffer, pH4.5]

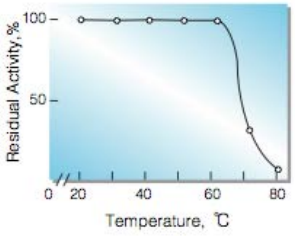

Fig.5. Thermal stability
[10min-treatment with 50mM acetate buffer, pH4.5]