

ENZYMES  
BY

SORACHIM

$\beta$ -Glucosidase from Sweet almond

BGH-201

SPECIFICATIONS

Product name:	$\beta$ -D-glucoside glucohydrolase
EC	3.2.1.21
Appearance	Light yellow amorphous powder lyophilized
Activity	Grade II, 10 U/mg-solid or more (containing approx. 50% of BSA)
Contaminant	$\alpha$ -Amylase $\leq 5.0 \times 10^{-4}$ %
Stabilizers	Bovine serum albumin (BSA), glutathione (reduced)
Stability	Stable at - 20°C for at least 12 months
Molecular weight	approx. 110,000
Isoelectric point	7.3
Michaelis constants	2.8 $\times 10^{-3}$ M (p-Nitrophenyl- $\beta$ -D-glucopyranoside), 3.3 $\times 10^{-3}$ M (2,4-Dichlorophenyl- $\beta$ -D-glucopyranoside)
Structure	2 subunits per mol of enzyme
Optimum pH	5.5
Optimum temperature	50 - 55°C
pH Stability	pH 6.0 - 9.0 (25°C, 64hr)
Thermal stability	below 50°C (pH 7.3, 1hr)

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#### SPECIFICATIONS

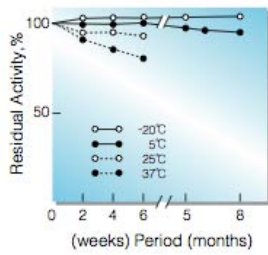


Fig.1. Stability (Powder form)  
(kept under dry conditions)

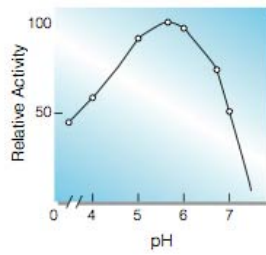


Fig.3. pH-Activity  
(37°C, 15 min-reaction in 50mM acetate buffer.)

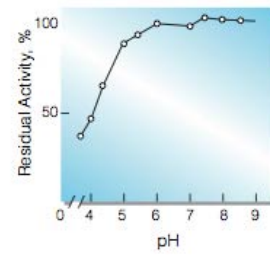


Fig.5. pH-Stability  
(25°C, 64hr-treatment with 50mM buffer solution; pH3.5-6.0, acetate; pH6.5-9.0, Tris-HCl)

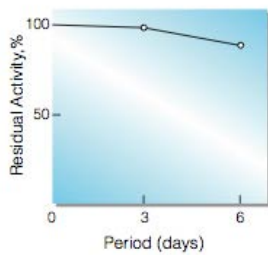


Fig.2. Stability (Liquid form at 25°C)  
(enzyme concentration: 1.0mg/ml, buffer composition: 50mM Tris-HCl buffer, pH7.8)

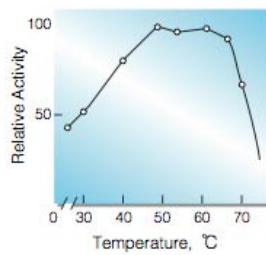


Fig.4. Temperature activity  
(15 min-reaction in 50mM acetate buffer, pH5.0)

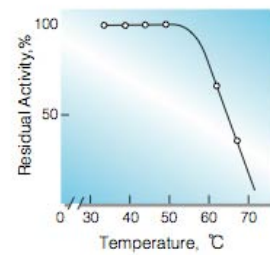


Fig.6. Thermal stability  
(1hr-treatment with 50mM Tris-HCl buffer, pH7.3)