

Lichenase 5A from *Thermotoga maritima*, Recombinant

Cat. No. NATE-1425

Lot. No. (See product label)

Introduction

Description β -glucanases degrade β -1,4-glucans of cellulose, xyloglucan and β -1,4-xylan. β -Glucanase represents a group of carbohydrate enzymes which break down glycosidic bonds within beta-glucan. It forms the main constituent of fungal cell walls and could be a potential structural and storage polysaccharide of marine macro-algae. It has the ability to degrade fungal cell walls and may be involved in defense mechanism of plants against pathogenic fungi.

Synonyms endo-1,3- β -D-glucanase; laminarinase; laminaranase; β -1,3-glucanase; β -1,3-1,4-glucanase; endo-1,3- β -glucanase; endo- β -1,3 (4)-glucanase; endo- β -1,3-1,4-glucanase; endo- β -(1 \rightarrow 3)-D-glucanase; endo-1,3-1,4- β -D-glucanase; endo- β -(1-3)-D-glucanase; endo- β -1,3-glucanase IV; endo-1,3- β -D-glucanase; 1,3-(1,3; 1,4)- β -D-glucan 3 (4)-glucanohydrolase; EC 3.2.1.73

Product Information

Species *Thermotoga maritima*

Source *E. coli*

Form 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl₂, 0.02% sodium azide and 25% (v/v) glycerol

EC Number EC 3.2.1.73

CAS No. 37288-51-0

Molecular Weight 41.3 kDa

Purity >90% by SDS-PAGE

Concentration 0.25 mg/mL

Optimum pH 6

Optimum temperature 80 °C

Specificity 1,3-1,4- β -glucans but also attacks carboxymethylcellulose and xyloglucan

Storage and Shipping Information

Storage This enzyme is shipped at room temperature but should be stored at -20 °C.