

## β-1,3-Glucanase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1180

Lot. No. (See product label)

### Introduction

**Description** Glucan endo-1,3-beta-D-glucosidase is an enzyme with system name 3-beta-D-glucan glucanohydrolase. This enzyme catalyses the following chemical reaction: Hydrolysis of (1->3)-beta-D-glucosidic linkages in (1->3)-beta-D-glucans. This enzyme is marginally active on mixed-link (1->3,1->4)-beta-D-glucans.

**Synonyms** endo-1,3-β-glucanase; laminarinase; laminaranase; oligo-1,3-glucosidase; endo-1,3-β-glucanase; callase; β-1,3-glucanase; kitalase; 1,3-β-D-glucan 3-glucanohydrolase; endo-(1,3)-β-D-glucanase; (1→3)-β-glucan 3-glucanohydrolase; endo-1,3-β-D-glucanase; endo-1,3-β-glucosidase; 1,3-β-D-glucan glucanohydrolase; EC 3.2.1.39; 9044-93-3

### Product Information

**Source** Clostridium thermocellum ATCC 27405

**Form** Supplied in 35 mM HEPES buffer, pH 7.8, containing 750 mM NaCl, 5 mM imidazole, 2.5 mM CaCl<sub>2</sub>, 0.02 % (w/v) sodium azide and 25 % (v/v) glycerol.

**EC Number** EC 3.2.1.39

**CAS No.** 9025-37-0

**Molecular Weight** 82262.8 Da

**Purity** > 95 % as judged by SDS-PAGE

**Activity** 1500 U/mg

**Concentration** 4500 U/ml

**Optimum pH** 6

**Optimum temperature** 65°C

**Unit Definition** One unit is defined as the amount of enzyme required to release 1 μmol of glucose-reducing-sugar equivalents per minute from laminarin in 50 mM phosphate buffer, pH 6.0, at 60°C.

### Storage and Shipping Information

**Storage** Store at -20°C (shipped at room temperature)