

Native *Trichoderma reesei* Cellulase

Cat. No. NATE-0120

Lot. No. (See product label)

Introduction

Description Cellulase refers to a family of enzymes which act in concert to hydrolyze cellulose. *Trichoderma reesei* has an extensively studied cellulase enzyme complex. This complex converts crystalline, amorphous, and chemically derived celluloses quantitatively to glucose..

Applications Digestive tablets Removal or softening of cellulose in food preparation Protoplast preparation from plants Various manufacturing processes

Synonyms endo-1,4- β -D-glucanase; β -1,4-glucanase; β -1,4-endoglucan hydrolase; cellulase A; cellulysin AP; endoglucanase D; alkali cellulase; cellulase A 3; celludextrinase; 9.5 cellulase; avicelase; pancellase SS; 1,4-(1,3; 1,4)- β -D-glucan 4-glucanohydrolase; EC 3.2.1.4

Product Information

Source *Trichoderma reesei* ATCC26921

Form Lyophilized powder

EC Number EC 3.2.1.4

CAS No. 9012-54-8

Activity Type 1 > 25 units per mg dry weight; Type 2 > 45 units per mg dry weight

Isoelectric point 4.5-7.2

pH Stability 4.2 - 5.2

Activators Nonionic detergents like Triton X-100

Inhibitors Carbohydrates, particularly cellobiose and excess cellulose

Unit Definition One Unit releases 0.01 milligrams of glucose per hour from microcrystalline cellulose at 37°C, pH 5.0.

Storage and Shipping Information

Storage 2-8°C