Creative Enzymes®

Native Penicillium sp. Dextranase

Cat. No. NATE-0194

Lot. No. (See product label)

Introduction

Description An endodextranase that hydrolyzes-(1,6)-glucosidic linkages in dextran. Dextrans are undesirable compounds synthesized from sucrose by microbial contaminants during sugar production that increase viscosity of the flow and decrease industrial recovery. Dextranase has been used for hydrolyzing dextran at sugar mills in order to improve efficiency of sugar production.

Applications Dextranase from Penicillium has been used in a study to assess the purification properties of an extracellular dextranase from Penicillium janthinellum. Dextranase from Penicillium has also been used in a study to investigate the carbohydrate component of Penicillium funiculosum dextranase. It has been used for the hydrolysis of carbohydate polymers, during the study of polysaccharide synthesis by Phanerochaete chrysosporium. It has also been used in the synthesis of new enzymatically degradable thermo-responsive nanogels.

Synonyms EC 3.2.1.11, dextran hydrolase; endodextranase; dextranase DL 2; DL 2; endo-dextranase; α-D-1,6-glucan-6-glucanohydrolase; 1,6-α-D-glucan 6-glucanohydrolase; 9025-70-1; Dextranase

Product Information

Source Penicillium sp.

Form lyophilized powder.

EC Number EC 3.2.1.11

CAS No. 9025-70-1

Activity 3,000 units/mg

Optimum pH 5

Optimum temperature 50°C

Storage and Shipping Information

Storage 2-8°C