Creative Enzymes®

Native Bacterial Environmental DNA Glucan elongation enzyme

Cat. No. NATE-0302

Lot. No. (See product label)

Introduction

Description	A thermostable 4-α-glucanotransferase that elongates linear alpha-glucan chains in starch and amylose by catalyzing the transfer of one glucose unit from the non-reducing end to a new position in an acceptor, which may be triose or larger. The enzyme can be used various applications, such as for modifications of alpha-polysaccharides and is ideal for making clear size ladders of oligosaccharides larger than maltose. The enzyme was developed from metagenome DNA obtained from environmental sample from a geothermal environment.
Synonyms	Glucan elongation enzyme

Product Information

Source	Bacterial Environmental DNA
Optimum pH	pH optimum is around 7
Optimum temperature	The enzyme in relatively active in a rather broad temperature range with optimum around 70°C
Unit Definition	Half unit (U) is defined as the amount of enzyme which lowers the OD at 650 nm from 1.2 to 0.7 in 30minutes.