

## Native Bacterial Environmental DNA Glucan elongation enzyme

Cat. No. NATE-0302

Lot. No. (See product label)

### Introduction

#### Description

A thermostable 4- $\alpha$ -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 is 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 30 minutes.