

## Native Aspergillus sp. Glucose Oxidase

Cat. No. DIA-193

Lot. No. (See product label)

## Introduction

Description The glucose oxidase enzyme (GOx) also known as notatin (EC number 1.1.3.4) is an oxido-reductase

> that catalyses the oxidation of glucose to hydrogen peroxide and D-glucono-δ-lactone. This enzyme is produced by certain species of fungi and insects and displays antibacterial activity when oxygen and

glucose are present.

**Applications** This enzyme is useful for enzymatic determination of glucose, and for amylase-activity assay when

coupled with  $\alpha$ -glucosidase in clinical analysis.

EC 1.1.3.4; glucose oxyhydrase; corylophyline; penatin; glucose aerodehydrogenase; microcid; β-D-Synonyms

glucose oxidase; D-glucose oxidase; D-glucose-1-oxidase; β-D-glucose:quinone oxidoreductase; glucose

oxyhydrase; deoxin-1; GOD; 9001-37-0; glucose oxidase enzyme; GOx; notatin; glucose oxidase

## **Product Information**

Source Aspergillus sp.

**Appearance** Yellowish amorphous powder, lyophilized

Freeze dried powder **Form** 

**EC Number** EC 1.1.3.4

CAS No. 9001-37-0

Molecular

approx. 153 kDa Weight

**Activity** Gradell 100U/mg-solid or more (containing approx. 50% of stabilizers)

**Contaminants** Catalase < 3.0%

pH Stability pH 4.5-6.0 (30°C, 20hr)

Optimum pH

Thermal

below 50°C (pH 5.7, 1hr)

stability

**Optimum** 40-50°C

temperature

 $3.3\times10^{-2}M$  (ß-D-Glucose),  $6.1\times10^{-2}M$  (2-Deoxyglucose)

Michaelis Constant

Structure Glycoprotein with 2 moles of FAD

**Inhibitors** p-Chloromercuribenzoate, heavy metal ions (Cu<sup>++</sup>, Hg<sup>++</sup>, Ag<sup>+</sup>)

Stabilizers Potassium gluconate, sodium glutamate

## Storage and Shipping Information

Stahilitv Stable at-20°C for at least one year

**Tel:** 1-631-562-8517 1-516-512-3133 Email: info@creative-enzymes.com 1/2