Active Recombinant Aspergillus Niger Glucose Oxidase, API grade

Cat. No. GOD-09A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	API grade Active Recombinant Aspergillus Niger Glucose Oxidase was purified from Yeast
Species	Aspergillus Niger
Source	Yeast
ProteinLength	Full length
Description	Glucose oxidase (GOX) is a flavoprotein that exists as a dimer composed of two identical subunits, each with a molecular weight of 80 kDa. Each subunit contains one flavin adenine dinucleotide (FAD) moiety and one iron atom. The enzyme is a glycoprotein containing approximately 16% neutral sugars and 2% amino sugars. Additionally, the enzyme has three cysteine residues and eight potential sites for N-linked glycosylation. Glucose oxidase can oxidize D-hexoses, monodeoxy-D-glucose, and methyl-D-glucose at different rates. It does not require any activators but is inhibited by Ag+, Hg2+, Cu2+, phenylmercuric acetate, and p-chloromercuribenzoate. It is not inhibited by non-metallic SH reagents such as N-ethylmaleimide, iodoacetate, and iodoacetamide.
CAS	9001-37-0
Form	Yellow or pale yellow lyophilized powder

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Molecular Mass	153 kDa
Bio-activity	> 250 U/mg
PI	4.5
pH	4.5–6.0
Optimal temperature	40–50 centigrade
Water content	0.033
Protein content	>95%
Unit Definition	One unit (U) of the enzyme is defined as the amount required to oxidize 1.0 μmol of β-D-glucose to D-gluconic acid and hydrogen peroxide per minute under the conditions of pH 5.1 and 35 centigrade.
Purity	> 96%
Reconstitution	Dissolve to 5 mg/mL in potassium phosphate buffer.

GENE INFORMATION

Official Symbol	0
Synonyms	GOD; Glucose Oxidase
Gene ID	0

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