

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

Glucose Oxidase from *Aspergillus niger* - Type X-5, lyophilized powder, 100,000-250,000 units/g solid (without added oxygen)

Product Number: **G7141**
CAS Number: 9001-37-0
MDL: MFCD00131182

Storage Temperature: -20 °C

TEST	Specification
Appearance (Color)	Faint Yellow to Dark Yellow
Appearance (Form)	Powder
Solubility (Color)	Colorless to Yellow
Solubility (Turbidity)	Clear
1 mg/mL in 0.05 M Sodium Acetate, pH 5.1	
Protein by Biuret	≥ 65 %
units/g Solid	100000 - 250000
Glucose Oxidase Act. (without adding oxygen) Unit Definition: One unit will oxidize 1.0 micromole of beta-d-glucose to d-gluconic acid and hydrogen peroxide per minute at pH 5.1 at 35°C.	
Enzymatic Impurities	≤ 5
Catalase, expressed in Sigma units/mg protein. One unit of Catalase will decompose 1.0 micromole of H ₂ O ₂ per minute at pH 7.0 at 25°C, while the H ₂ O ₂ concentration falls from 10.3 to 9.2 millimolar.	
Galactose Oxidase	≤ 3.5 %
Impurity	
Glycogenase	≤ 0.2 %
Impurity	
Invertase	≤ 0.2 %
Impurity	

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Product Specification

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Glucose Oxidase from *Aspergillus niger* - Type X-S, lyophilized powder, 100,000-250,000 units/g solid (without added oxygen)

Product Number: **G7141**
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MDL: MFCD00131182

Storage Temperature: -20 °C

TEST	Specification
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Maltase Impurity	≤ 3.0 %
Protease Impurity	≤ 0.05 %

Specification: PRD.4.ZQ5.10000046292

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