



Glucose Oxidase HP S100
Catalogue No. GLOX-70-6451, 70-6451-01

Origin: *Aspergillus niger*

Specifications:

Appearance: Yellow free flowing powder
 Activity: >180.0 U/mg powder at 25°C
 Specific Activity: > 190.0 U/mg protein at 25°C
 Contaminants: Glucose oxidase:Catalase ratio >2:1

Characteristics:

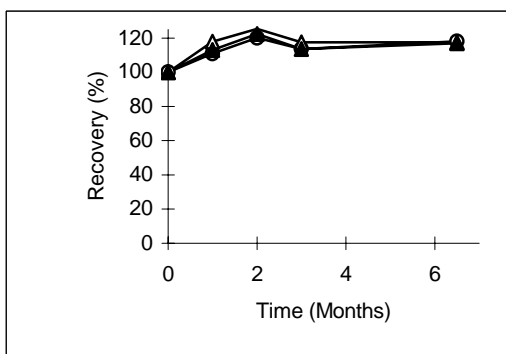
Optimum pH: 5.5 (broad activity plateau between pH 4.0 and 7.0)

Liquid Stability: At 4°C
 At 25°C

See Fig. 1
 See Fig. 2

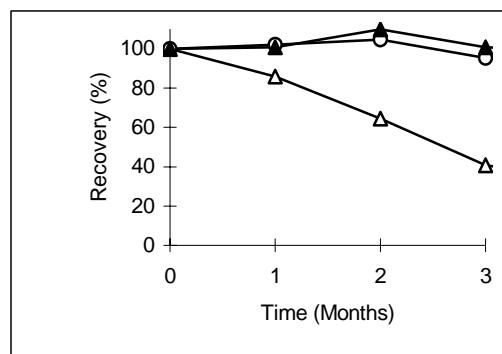
Lyophilised stability: 5 years desiccated at -20°C

Fig. 1 Liquid Stability at 4 °C



○ : PIPES
 △ : KH₂PO₄
 ▲ : Tris

Fig. 2 Liquid Stability at 25 °C



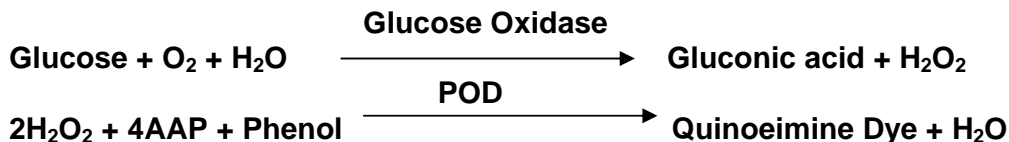
○ : PIPES
 △ : KH₂PO₄
 ▲ : Tris



Glucose Oxidase HP S100
(Catalogue No. 6451)

Assay Principle:

Glucose Oxidase catalyses the following reaction:



The formation of quinoneimine dye can be measured spectrophotometrically at 500nm.

Unit Definition:

One unit of activity is defined as the amount of enzyme that will catalyse the oxidation of 1.0 micromole of glucose per minute at 25°C under the standard assay method conditions.

(Please see Analytical Method for full details)

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Intended for use in the manufacture of IVDs