

Native Pseudomonas sp. Glucose dehydrogenase

Cat. No. NATE-0305

Lot. No. (See product label)

Introduction

Description In enzymology, a glucose 1-dehydrogenase (EC 1.1.1.47) is an enzyme that

catalyzes the chemical reaction:beta-D-glucose + NAD (P)+ \leftrightarrow D-glucono-1,5-lactone + NAD (P)H + H+. The 3 substrates of this enzyme are beta-D-glucose, NAD+, and NADP+, whereas its 4 products are D-glucono-1,5-lactone, NADH, NADPH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on

the CH-OH group of donor with NAD+ or NADP+ as acceptor.

Synonyms EC 1.1.1.47; D-glucose dehydrogenase (NAD (P)+); hexose phosphate

dehydrogenase; β -D-glucose:NAD (P)+ 1-oxidoreductase; glucose 1-

dehydrogenase; Glucose dehydrogenase; 9028-53-9

Product Information

Source Pseudomonas sp.

Form powder; white

EC Number EC 1.1.1.47

CAS No. 9028-53-9

Activity > 200 units/mg

Unit Definition One unit corresponds to the amount of enzyme which will oxidizes 1 μ mole β -D-

glucose to D-glucono-δ-lactone per minute at pH 8.0 and 37°C

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Storage and Shipping Information

Storage –20°C

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