

## E2040910P2 Glucose Dehydrogenase



### PRODUCT APPLICATION

Glucose dehydrogenase has been successfully used in desktop glucose detection instrumentation and the detection of glucose in diabetic patients.

Also used for glucose detection in blood, food analysis and in the construction of disposable electrochemical biosensors and in vivo biosensors.

### PRODUCT BENEFITS

Good enzyme stability and activity  
Oxygen independent, this enzyme could be used in a sealed oxygen free environment.  
No cross reactivity with Maltose.

Unstabilised GDH is a more economical viable product in our range

### STABILITY

1 year stability when stored at  $-20^{\circ}\text{C}$

### STABILISER INFORMATION

This enzyme can be stabilised using Q2090625D14 stabiliser solution from Applied Enzyme Technology Ltd. The solution is delivered in double strength to be added to the unstabilised enzyme in buffer. For more information on our range of stabiliser solutions please contact our sales representative.

### PHYSICAL PROPERTIES

Glucose Dehydrogenase	EC:1.1.1.47
Source	<i>Bacillus sp.</i>
Appearance	Dry white powder
Form supplied	Dry Unstabilised powder
Activity	> 70 Units per mg material
Contaminants	<0.002 % Lactate dehydrogenase (Pyruvate) <0.002% Lactate dehydrogenase (Lactate) <0.002%NADH oxidase .
Quality Control	Activity determined by spectrophotometric assay
Storage	$-20^{\circ}\text{C}$
<b>Unit Definition</b>	One unit is defined as the amount of enzyme utilising 1 $\mu\text{mole}$ of $\text{NAD}^+$ per minute at pH 8.0 and $25^{\circ}\text{C}$ .

### SAFETY AND HANDLING

Read the Material Safety Data Sheets (MSDS) and product labels before using the products.

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All values reported here are results of experiments conducted in our laboratories and are intended to illustrate the products performance. They are not intended to represent the products specifications