

Bioactive

## G6PDH (*L. mesenteroides*), NAD Assayed

Catalog # P5266

Size 900 Units

### Specification

<b>Product Description</b>	Solution. Same as Cat.# P5265 except assayed using NAD. Phosphohexose isomerase, phosphoglucate dehydrogenase, adenylate kinase and creatine phosphokinase contaminant activities $\leq 0.011\%$ , $0.002\%$ , $0.0011\%$ and $0.0011\%$ respectively.
<b>Biological function</b>	Glucose-6-phosphate dehydrogenase is a cytosolic enzyme in the pentose phosphate pathway, which is a metabolic pathway that supplies reducing energy to cells by maintaining the level of the co-enzyme NADPH.
<b>Host</b>	Bacteria
<b>Theoretical MW (kDa)</b>	104
<b>Form</b>	Liquid
<b>Preparation Method</b>	Native protein chromatographically purified from <i>Leuconostoc mesenteroides</i>
<b>Activity</b>	$\geq 360$ NAD units per mg protein. One Unit reduces one micromole of NAD per minute at $37^{\circ}\text{C}$ , pH 7.8, using glucose-6-phosphate as substrate.
<b>Recommend Usage</b>	Glucose-6-Phosphate Dehydrogenase Assay
<b>Storage Buffer</b>	In 3.7 M ammonium sulfate
<b>Storage Instruction</b>	Store at $4^{\circ}\text{C}$ . This product is stable for at least 3 months.
<b>Note</b>	Care should be taken not to shake the solution as precipitation may result.

### Applications

- Enzyme Activity