

GLUTAMATE DEHYDROGENASE (GLDH)

EC Number	1.4.1.3
Alternative Names	L-Glutamate: NAD(P)+ oxidoreductase (deaminating); Glutamate dehydrogenase [NAD(P)+]; Glutamic dehydrogenase
Assay Principle	2-Oxoglutarate + NH ₃ + NADH + H ⁺ $\xrightarrow{\text{GLDH}}$ L-Glutamate + NAD ⁺ + H ₂ O
Unit Definition	That amount of enzyme causing the transformation of one micromole of 2-Oxoglutarate per minute at 25°C and pH 7.3. (under assay conditions not containing ADP)

How can Glutamate Dehydrogenase be used?

Glutamate Dehydrogenase is an enzyme used in liquid and powder laboratory reagents. Our GLDH is extracted from Bovine Liver using multiple precipitation, fractionation, and filtration steps to produce a product of the highest quality, stability, and batch to batch consistency. Glutamate Dehydrogenase can be used in a number of applications including:

- + Determination of Urea in conjunction with Urease
- + As an indicator enzyme in the detection of serum GOT/GPT
- + In the determination of ammonia

Key Benefits

+ SECURITY OF SUPPLY

BBI hold direct relationships with abattoirs for continuity of supply

+ MULTIPLE FORMULATIONS

Available in liquid and freeze-dried formulations to suit your application



Why choose BBI for your supply?

BBI Solutions (BBI) is one of the world's leading producers of high purity Glutamate Dehydrogenase and has supplied this raw material for over 40 years.

Order your evaluation sample today

Storage	GDHB3 - Store desiccated at -15°C or below. GDHB5 – Store between +2°C and +8°C. GDHB5G – Store between +2°C and +8°C.
Stability	GDHB3/GDHB5 – Stable for 4 years when stored in accordance with storage conditions. GDHB5G – Stable for 6 months when stored in accordance with storage conditions.

Product Analysis

An example of typical batch data

Code	GDHB3
Batch	905AF
Activity	12.5 U/mg material 51.9 U/mg enzyme protein 9.86 U/A290
Protein Contamination	0.241 mg enzyme protein/mg material
Contaminants	LDH: <0.01% MDH: <0.01% Ammonium ions: <0.001µmole/Unit GLDH

ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description	Form	Applications
Glutamate Dehydrogenase	GDHB3	>40 U/mg protein	Freeze-dried material	Clinical Chemistry
	GDHB5	>40 U/mg protein	A suspension in 50% saturated ammonium sulphate solution, pH 7.6	Clinical Chemistry
	GDHB5G	>40 U/mg protein	A solution in 50% v/v glycerol, pH 7.3	Clinical Chemistry

Related Products

Code	Activity
URE2	>220 Nessler U/mg material
URE3	>1300 Nessler U/mg protein

Order a sample today sales@bbisolutions.com

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