

## General Glutamate Dehydrogenase Assay Kit | gdh1 assay kit

Glutamate Dehydrogenase Microplate Assay Kit

|                               |                              |                                         |
|-------------------------------|------------------------------|-----------------------------------------|
| CATALOG #<br><b>AAA261565</b> | REACTIVITY<br><b>General</b> | APPLICATIONS<br><b>Functional Assay</b> |
|-------------------------------|------------------------------|-----------------------------------------|

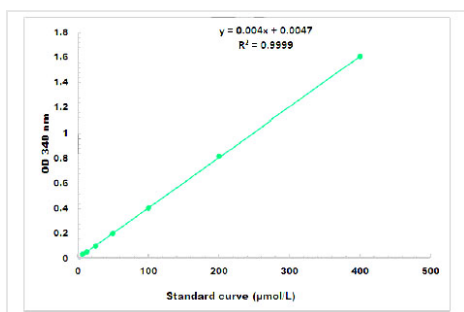
### PRODUCT SYNONYMS

Glutamate Dehydrogenase; Glutamate Dehydrogenase Microplate Assay Kit; EC 1.4.1.2; Glutamate dehydrogenase; Glutamic dehydrogenase; GLDH; gdh1 assay kit

### PRODUCT SPECIFICATIONS

|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| Reactivity                                 | General                                       |
| Sequence Length                            | 411                                           |
| Samples                                    | Tissue extracts, cell lysate samples          |
| Detection Range                            | 4 umol/L - 400 umol/L                         |
| Applicable Applications for gdh1 assay kit | FA (Functional Assay)                         |
| Preparation and Storage                    | Shipped and store at 4 degree C for 6 months. |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for gdh1 assay kit

**Background/Introduction:** Glutamate Dehydrogenase (GDH) is a mitochondrial enzyme that catalyzes the reversible oxidative deamination of glutamate to α-ketoglutarate and serves as a key link between anabolic and catabolic pathways. In mammals, GDH is subject to allosteric regulation and has high activity in liver, kidney, brain, and pancreas. GDH activity in serum can be used to differentiate between liver diseases due to liver inflammation, which do not show elevated serum GDH activity, and diseases that result in hepatocyte necrosis, which results in elevated serum GDH. The assay is initiated with the enzymatic catalysis of  $\text{NH}_4^+$ , α-ketoglutaric acid and NADH by GDH. NADH can be measured at a colorimetric readout at 340 nm.

### NCBI AND UNIPROT INFORMATION

|                  |                |
|------------------|----------------|
| NCBI GI #        | 795881068      |
| NCBI GeneID      | 544015         |
| NCBI Accession # | NP_001233850.2 |

|                               |                         |
|-------------------------------|-------------------------|
| NCBI GenBank Nucleotide #     | NM_001246921.2          |
| Molecular Weight              | 44,813 Da               |
| NCBI Official Full Name       | glutamate dehydrogenase |
| NCBI Official Symbol          | gdh1                    |
| NCBI Official Synonym Symbols | GDH; legdh1             |
| NCBI Protein Information      | glutamate dehydrogenase |
| UniProt Protein Name          | Glutamate dehydrogenase |
| UniProt Gene Name             | <b>GDH1</b>             |
| UniProt Synonym Gene Names    | GDH                     |
| UniProt Entry Name            | DHE3_SOLLC              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-assay-kits/glutamate-dehydrogenase/261565>