



PRODUCT APPLICATION

Glutamate dehydrogenase has been successfully used in desktop ammonia detection, both optically and electrochemically

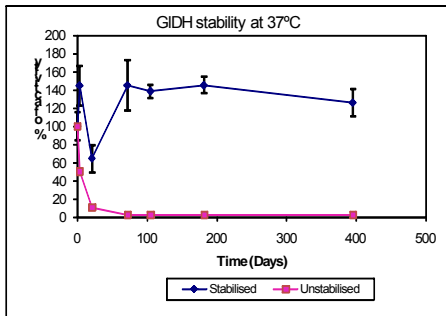
Also used in disposable test strips for ammonia detection in river water and in the construction of disposable electrochemical biosensors using AET Handi-Lab instrument.

PRODUCT BENEFITS

Very good enzyme stability and activity. Unstabilised Glutamate dehydrogenase shows no activity at 37°C after 5 days, compared to 100% enzyme activity retention after 13 months at 37°C.

STABILITY DATA

Stable for:
 13 months at +37°C
 19 months at +25°C
 2 years at -20°C



PHYSICAL PROPERTIES

L-Glutamic dehydrogenase	EC:1.4.1.3
Source	Bovine liver
Appearance	Dry yellow powder
Form supplied	Dry stabilised powder
Quality Control	Activity determined by spectrophotometric assay
Storage	Storage at -20°C

Unit Definition	One unit is defined as the amount of enzyme that reduce 1.0 μ mole of alpha-ketoglutarate to L-glutamate per minute at pH 7.3 at 25°C, in the presence of ammonium ions.
-----------------	--

STABILISER INFORMATION

This enzyme has been stabilised using our Q2090625D16 stabiliser solution. 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.

SAFETY AND HANDLING

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

Issued by Gwent Group May 2010

