



540 Division Street, Campbell, California 95008-6906
Tel. (408) 866-6363 Fax (408) 866-6364
WWW.LISTLABS.COM

Product # 159A

CERTIFICATE OF ANALYSIS
GLUTAMATE DEHYDROGENASE from *C. DIFFICILE*
Lot # 1591A2

Contents

Each vial contains 0.1 mg of Glutamate Dehydrogenase (GDH) from *C. difficile* in D-PBS, pH 7.1 (Embryo Max®, EMD Millipore) at a concentration of 1 mg/ml. **Handle the product gently, do no vortex.**

Concentration

The EMD Millipore Direct Detect™ infrared (IR)-based quantification system, using NIST traceable bovine serum albumin as a standard, was used to determine the concentration.

Purity

When examined on 4-12% SDS-PAGE gels, this product migrates as a single major band with an apparent molecular weight of approximately 46,000 Da. The protein purity is > 95% based on densitometric analysis. The endotoxin content, determined using a kinetic chromogenic LAL assay, is <45 EU/mg.

Activity

GDH activity was determined using a glutamate dehydrogenase activity assay kit (Sigma, MAK099). Briefly, the activity is measured using a coupled enzyme assay where NADH is generated when glutamate is consumed by GDH. The NADH reacts with a probe which is monitored at 450 nm. The activity for this lot at pH 7.6 and 37°C is approximately 30 μmoles NADH/min/mg GDH.

Packaging and Storage

This product is supplied as an aseptically packaged liquid. Store at 2-8°C. To ensure recovery of vial contents, centrifuge before opening. Aseptic handling is recommended, no preservatives have been added to the product.

Handling

This product is not known to be hazardous. Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.

This product is intended for research purposes only. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc. is not liable for any damages resulting from the misuse or handling of this product.

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.

QA/QC: KPD Date: 01/22/2021

Made in U.S.A.