

GSH/GSSG assay kit

GSH/GSSG Assay, Microplate Format

CATALOG #
AAA71819

PRODUCT SYNONYMS

GSH/GSSG; GSH/GSSG Assay; Microplate Format; GSH/GSSG assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage	4 degree C
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ADDITIONAL INFORMATION

Related Product Information for GSH/GSSG assay kit

Principle of the Assay: The low concentration of GSSG (high GSH/GSSG ratio) in tissues coupled with the need to prevent GSH oxidation during sample preparation, are important considerations for the accurate measurement of GSSG and GSH/GSSG ratios. Guntherberg and Rost (2) first reported the use of N-ethylmaleimide (NEM) reacting with GSH to form a stable complex, therefore removing the GSH prior to the quantification of GSSG in tissues. Unfortunately, NEM inhibits GR. To overcome this problem, Griffith (3) employed 2-vinylpyridine (2-VP) to derivatize GSH. Although 2-VP does not significantly inhibit GR, it reacts relatively slowly with GSH and is not very soluble in aqueous solutions. Scavenging of Free Thiols: This assay employs a pyridine derivative as a thiol-scavenging reagent thereby overcoming the shortfalls of both prior methods. At the concentration employed in the assay, this derivative reacts quickly with GSH but does not interfere with the GR activity.

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/assay-kits/gsh-gssg/71819>