

GSH/GSSG Assay Kit

Cat. No. Kit-2510 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Glutathione, a tripeptide of glycine, glutamic acid and cysteine, is one of the key antioxidants involved in protecting cells from damages by reactive oxygen species. Glutathione (GSH) reduces disulfide bonds in cytoplasmic proteins to cysteines, in which it is converted to its oxidized form GSSG. GSH/GSSG Assay Kit is designed to accurately measure total, reduced and oxidized glutathione in biological samples using an enzymatic method that utilizes Ellman's Reagent (DTNB) and glutathione reductase (GR). DTNB reacts with reduced glutathione to form a yellow product. The rate of change in the optical density, measured at 412 nm, is directly proportional to glutathione concentration in the sample. This kit can also be used to measure oxidized (GSSG) by using a specific protocol which first scavenges all GSH with 1-methyl-2-vinylpyridinium triflate.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method

OD412nm

Compatible Sample Types

Whole blood, plasma, serum, urine, tissue and cell extracts

Features & Benefits

Sensitive and accurate. Linear detection range 0.01-3 μ M GSH equivalents with a detection limit of 10 nM GSH equivalents.

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Assay time	20 min
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Sensitivity	10 nM
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