

Glutathione Oxidized (GSSG) Assay Kit

Description

Product name	Micro Glutathione Oxidized (GSSG) Assay Kit
Applications notes	Reduced glutathione can react with DTNB and generate 2-nitro-5-mercaptobenzoic acid, which has the maximum light absorption at 412 nm wavelength. The original reduced glutathione in the sample is inhibited by 2-vinylpyridine, and then GSSG is reduced to GSH by Glutathione Reductase to determine the content of GSSG.

Product Properties

Kit components	• Extraction Buffer
	• Inhibitor
	• Assay Buffer
	• GR
	• GR Cofactor
	• Chromogen
Features & Benefits	• Standard
	• Determination of the content of GSSG in serum, plasma, plant tissues, cell lysates and other biological fluids.
	• A broad range linearity: 1-20 μM .
	• The minimum detection concentration is less than 1 μM .
Usage notes	• If the experiment is not carried out immediately, the sample can be kept at -80°C for 10 days.
	• All samples should make a 1:10 dilution with deionized water, and the result was multiplied by a factor of 10.
	• Always prepare fresh standards per use.
	• Diluted standard solution is unstable and must be used within 4 hours.
Storage instructions	Storage at -20°C and Keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components.
Shipping	Gel pack with blue ice.
Precautions	The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.

Additional Information

Background

Glutathione comes in two forms: reduced (GSH) and oxidized (GSSG). Glutathione oxidized is the oxidized form of Glutathione, also known as Dithioglutathione, which is formed by the oxidation of two reduced glutathione molecules. GSSG is reduced to GSH by Glutathione Reductase. Reduced glutathione exists in a large number of organisms and plays a major role. Measurement of GSH and GSSG content and GSH / GSSG ratio can reflect cells redox state, and it is also one main indicator of glutathione redox cycle.

Image & description

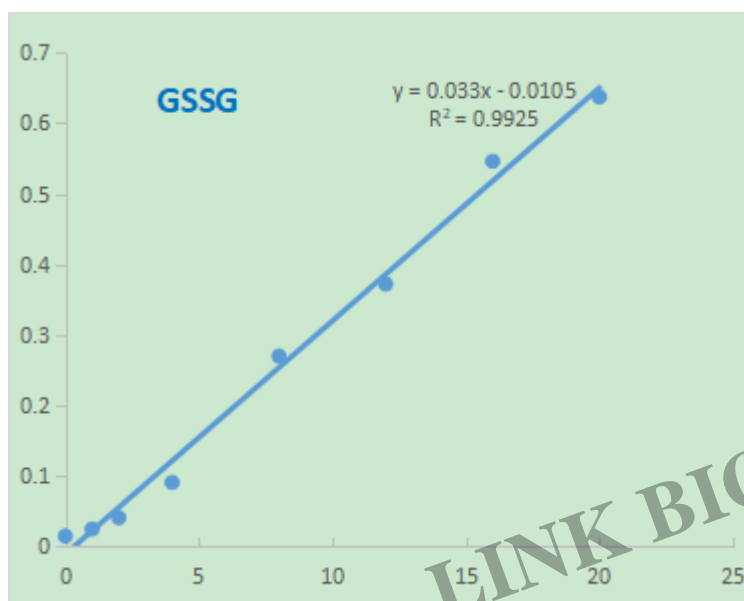


Fig. Standard Curve of GSSG in 96-well plate assay. The y-axis is OD and the x-axis is GSSG concentration (µg/ml).

Date Created

2024/07/03