

## Glutathione Peroxidase (GSH-Px) Activity Assay Kit Cat No: HR3BC1134

For research use only

## Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(412 nm)
Assay Time	70 min
Validity	6
Assay Type	Enzyme Activity
Sample Type	Serum,plasma,cells,cell culture supernatant,tissue
Synonyms	GSH-PX
Instrument	Spectrophotometer(412 nm)
Detection Principle	Glutathione peroxidase (GSH-Px) can promote the reaction of hydrogen peroxide (H2O2) and reduced glutathione to produce H2O and oxidized glutathione (GSSG). The activity of glutathione peroxidase can be expressed by the rate of enzymatic reaction. The activity of glutathione can be calculated by measuring the consumption of reduced glutathione. Hydrogen peroxide (H2O2) and reduced glutathione can react without catalysis of GSH-Px, so the portion of GSH reduction by non-enzymatic reaction should be subtracted. GSH can react with dinitrobenzoic acid to produce 5-thio-dinitrobenzoic acid anion, which showed a stable yellow color. Measure the absorbance at 412nm, and calculate the amount of GSH.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4)
Labware	Micropipettor, Incubator, Vortex mixer, Centrifuge
Size	100Assays
Sensitivity	12.65 U
Detection Range	12.65-387 U
Recovery Rate	105