
OxisResearch™

A Division of AOXRE LLC

BIOXYTECH® cellular-Glutathione Peroxidase Control

Control for Glutathione Peroxidase Enzyme Assay

For Research Use Only. Not For Use In Diagnostic Procedures.

Catalog Number 27617

INTRODUCTION

The Analyte

The BIOXYTECH® GPx-340™ assay is designed to measure glutathione peroxidase (GPx) activity in a given sample. One unit of GPx activity is defined as the quantity of enzyme that catalyzes the oxidation of 1 micromole NADPH per minute at pH 7.6 and 25°C. This enzyme activity is highly dependent upon the assay conditions, most notably temperature.

AOXRE provides a cellular-Glutathione Peroxidase Control as a companion product to the GPx-340™ assay. This Control enables the investigator to:

- Assess the performance of the assay.
- Assess recovery of enzyme activity in biological samples.
- Normalize measured GPx activity.

ACTIVITY: See vial label for lot specific activity.

REAGENTS

Materials Provided (for 100 tests)

- GPx Control 2 vials, 0.5 mL per vial.
- Diluent TRIS EDTA; ergothioneine; and bovine IgG; 20 mL.

Reagent Storage and Handling

Store the Glutathione Peroxidase Control and the Diluent at -20°C or below until use. Following first use, store at 2-8°C.

NOTE: Use diluted control within 30 minutes of preparation. Avoid freeze-thaw cycles as this will reduce GPx activity.

Assay

1. Thaw the GPx Control and Diluent (first use) at room temperature, then mix. Place Control vial on ice.
2. Dilute the enzyme 1/20 in the Control Diluent and place on ice.
3. Perform the BIOXYTECH® GPx-340™ Assay as described in the package insert.

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