

## CERTIFICATE OF ANALYSIS

**Product:** GPX1 ELISA Kit (Bovine)  
**SKU:** OKEH04607  
**Lot:** KG0264  
**Expiration Date:** 2022.10

### Performance Characteristics:

Intra-Assay CV	$\leq 4.5\%$	Passed
Inter-Assay CV	$\leq 8.2\%$	Passed
Limit of Detection (LOD)		$\leq 0.62$ ng/mL
Assay Range		1.56 - 100 ng/mL

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 100 ng Lyophilized GPX1 standard. Mix gently until dissolved. Leave the vial at ambient temperature for 15 minutes.

Prepare a set of diluted standards as indicated in the chart below:

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
1	Reconstitute GPX1 Standard	N/A	N/A	1,000	100
2	100	300	300	600	50

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
3	50	300	300	600	25
4	25	300	300	600	12.5
5	12.5	300	300	600	6.25
6	6.25	300	300	600	3.12
7	3.12	300	300	600	1.56
8	N/A	0	300	300	0.0 (Blank)



### Typical Expected Data

Standard Curve and Calculations ONLY. Do not use below report for result calculations. A standard curve should be generated each time the test is performed.

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
1	100	2.743
2	50	2.291
3	25	1.516
4	12.5	1.033
5	6.25	0.528
6	3.12	0.23

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	1.56	0.102

Standard Curve Graph

