

CERTIFICATE OF ANALYSIS

Product: SERPINA1 ELISA Kit (Rat)
SKU: OKEH01220
Lot: KH0644
Expiration Date: 2024.04

Performance Characteristics:

Intra-Assay CV	<= 4.4%	Passed
Inter-Assay CV	<= 6.9%	Passed
Limit of Detection (LOD)		<= 0.809 ng/mL
Assay Range		1.56 - 100 ng/mL

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 2 mL of Sample Diluent to the 200 ng Lyophilized SERPINA1 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 SERPINA1 Standard	N/A	N/A	2,000	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	2.595
2	50	1.933
3	25	1.394
4	12.5	0.877
5	6.25	0.436
6	3.12	0.202

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	1.56	0.068

Standard Curve Graph

