

CERTIFICATE OF ANALYSIS

Product: AKR1B1 ELISA Kit (Mouse)
SKU: OKEH01570
Lot: KG0173
Expiration Date: 2022.09

Performance Characteristics:

Intra-Assay CV	<= 5.3%	Passed
Inter-Assay CV	<= 8.9%	Passed
Limit of Detection (LOD)		<= 7.9 pg/mL
Assay Range		15.6 - 1000 pg/mL

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 2 mL of Sample Diluent to the 2000 pg Lyophilized AKR1B1 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 (pg/mL)
1	Reconstitute AKR1B1 Standard	N/A	N/A	2,000	1000
2	1000	300	300	600	500

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (pg/mL)
3	500	300	300	600	250
4	250	300	300	600	125
5	125	300	300	600	62.5
6	62.5	300	300	600	31.2
7	31.2	300	300	600	15.6
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 (pg/mL)	Background Adjusted OD Value
1	1000	2.669
2	500	1.528
3	250	0.814
4	125	0.433
5	62.5	0.233
6	31.2	0.111

Standard Number	Concentration (pg/mL)	Background Adjusted OD Value
7	15.6	0.067

Standard Curve Graph

