

CERTIFICATE OF ANALYSIS

Product: POMC ELISA Kit (Human)
SKU: OKEH00938
Lot: KG0455
Expiration Date: 2023.01

Performance Characteristics:

Intra-Assay CV	$\leq 3.5\%$	Passed
Inter-Assay CV	$\leq 6.8\%$	Passed
Limit of Detection (LOD)		≤ 10 pg/mL
Assay Range		15.6 - 1000 pg/mL

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 1000 pg Lyophilized POMC 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 POMC Standard	N/A	N/A	1,000	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	0.196
2	500	0.312
3	250	0.506
4	125	0.754
5	62.5	1.085
6	31.2	1.503

Standard Number	Concentration (pg/mL)	Background Adjusted OD Value
7	15.6	1.983

Standard Curve Graph

