

CERTIFICATE OF ANALYSIS

Product: NEFA ELISA Kit (Human)
SKU: OKEH01848
Lot: KG0290
Expiration Date: 2022.10

Performance Characteristics:

Intra-Assay CV	$\leq 5.9\%$	Passed
Inter-Assay CV	$\leq 7.8\%$	Passed
Limit of Detection (LOD)		≤ 0.12 ng/mL
Assay Range		0.312 - 20 ng/mL

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 2 mL of Sample Diluent to the 40 ng Lyophilized NEFA 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 NEFA Standard	N/A	N/A	2,000	20
2	20	300	300	600	10

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
3	10	300	300	600	5.0
4	5.0	300	300	600	2.5
5	2.5	300	300	600	1.25
6	1.25	300	300	600	0.625
7	0.625	300	300	600	0.312
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	20	0.312
2	10	0.436
3	5.0	0.621
4	2.5	0.827
5	1.25	1.168
6	0.625	1.562

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	0.312	2.019

Standard Curve Graph

