

## CERTIFICATE OF ANALYSIS

**Product:** UCP1 ELISA Kit (Rat)  
**SKU:** OKEH03446  
**Lot:** KF0758  
**Expiration Date:** 2021.12

### Performance Characteristics:

Intra-Assay CV	<= 4.5%	Passed
Inter-Assay CV	<= 8.9%	Passed
Limit of Detection (LOD)		<= 0.091 ng/mL
Assay Range		0.156 - 10 ng/mL

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 10 ng Lyophilized UCP1 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 UCP1 Standard	N/A	N/A	1,000	10
2	10	300	300	600	5.0

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
3	5.0	300	300	600	2.5
4	2.5	300	300	600	1.25
5	1.25	300	300	600	0.625
6	0.625	300	300	600	0.312
7	0.312	300	300	600	0.156
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	10	2.769
2	5.0	1.928
3	2.5	1.426
4	1.25	0.914
5	0.625	0.611
6	0.312	0.32

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	0.156	0.213

### Standard Curve Graph

