

CERTIFICATE OF ANALYSIS

Product: Thyroxine ELISA Kit (General)
SKU: OKEH02532
Lot: KH0587
Expiration Date: 2024.03

Performance Characteristics:

Intra-Assay CV	<= 7.1%	Passed
Inter-Assay CV	<= 9.3%	Passed
Limit of Detection (LOD)		<= 0.0975 ng/mL
Assay Range		0.195 - 12.5 ng/mL

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 12.5 ng Lyophilized Thyroxine 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 Thyroxine Standard	N/A	N/A	1,000	12.5
2	12.5	300	300	600	6.25

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
3	6.25	300	300	600	3.12
4	3.12	300	300	600	1.56
5	1.56	300	300	600	0.78
6	0.78	300	300	600	0.39
7	0.39	300	300	600	0.195
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	12.5	0.038
2	6.25	0.07
3	3.12	0.126
4	1.56	0.235
5	0.78	0.431
6	0.39	0.752

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	0.195	1.347

Standard Curve Graph

