

## CERTIFICATE OF ANALYSIS

**Product:** Vitamin B1 ELISA Kit (General)  
**SKU:** OKEH02610  
**Lot:** KF0401  
**Expiration Date:** 2021.09

### Performance Characteristics:

Intra-Assay CV	<= 6.8%	Passed
Inter-Assay CV	<= 8.4%	Passed
Limit of Detection (LOD)		<= 0.89 ng/mL
Assay Range		1.56 - 100 ng/mL

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 100 ng Lyophilized Vitamin B1 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 Vitamin B1 Standard	N/A	N/A	1,000	100
2	100	300	300	600	50

Standard Number (Tube)	Standard To Dilute	Volume Standard To Dilute (uL)	Volume Sample Diluent Buffer (uL)	Total Volume (uL)	Final Concentration (ng/mL)
3	50	300	300	600	25
4	25	300	300	600	12.5
5	12.5	300	300	600	6.25
6	6.25	300	300	600	3.12
7	3.12	300	300	600	1.56
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	100	0.147
2	50	0.264
3	25	0.504
4	12.5	0.878
5	6.25	1.407
6	3.12	1.848

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	1.56	2.216

### Standard Curve Graph

