

## CERTIFICATE OF ANALYSIS

**Product:** Rubisco ELISA Kit (Plant)

**Catalog No:** OKGD00011

**Lot No:** KF0075

**Expiration Date:** 1/07/2022

**Lyophilized Standard Reconstitution:** Reconstitute STD00000120 with 1.0 mL 1x PBS

Prepare a set of serially diluted standards by following the table below:

Standard Number (Tube)	Standard to Dilute (ng/mL)	Volume Standard to Dilute (µL)	Volume Assay Diluent (µL)	Total Volume (µL)	Final Concentration (ng/mL)
1	10,000 ng/mL Reconstituted Standard	1000	NA	1000	10,000 ng/mL
2	10,000 ng/mL	250	500	750	3333.3 ng/mL
3	3333.3 ng/mL	250	500	750	1111.1 ng/mL
4	1111.1 ng/mL	250	500	750	370.4 ng/mL
5	370.4 ng/mL	250	500	750	123.5 ng/mL
6	123.5 ng/mL	250	500	750	41.2 ng/mL
7	41.2 ng/mL	250	500	750	13.7 ng/mL
8	0 (Blank)	NA	500	500	0 (Blank)

**HRP-Detection Antibody Dilution:** Optimal dilution of Rubisco HRP-Detection Antibody, DET00000139 is 1:500 in Assay Diluent A; 22 µL into 11 mL of Assay Diluent A.

### Kits Content:

Catalog Number	Kit Components	Lot Number	Contents
OKGD00011-MPL	Anti-Rubisco Microplate	MPL00000112	1 x 96 wells plate
OKGD00011-STD	Rubisco Lyophilized Standard	STD00000120	2 x vials (10 µg/vial)
OKGD00011-DET	Rubisco HRP-Detection Antibody	DET00000139	1 x 30 µL
OKGD00011-ADL	Assay Diluent A	ADL00000103	1 x 30 mL
OKGD00011-WSH	20X Wash Buffer	WSH00000102	1 x 30 mL
OKGD00011-TMB	TMB Substrate	TMB00000101	1 x 12 mL
OKGD00011-STP	Stop Solution	STP00000101	1 x 12 mL

**Performance Characteristics:**

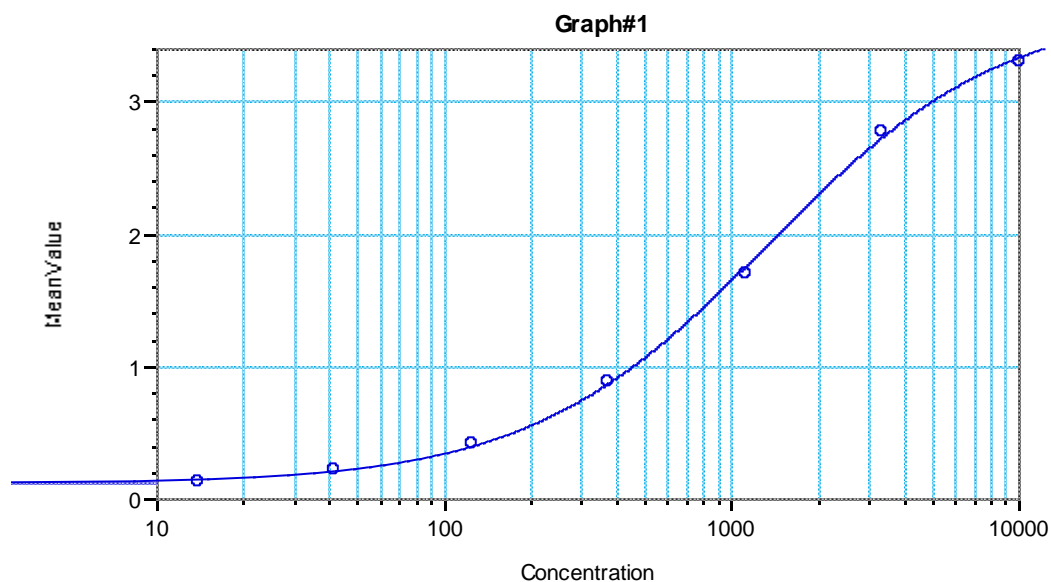
Intra-Assay CV	≤10%	Passed
Inter-Assay CV	≤10%	Passed
Limit of Detection (LOD)	< 1.0 ng/mL	Passed
Assay Range		13.7 – 10,000 ng/mL

**Standard Curve Report**

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	10,000.0	3.23
2	3333.3	2.70
3	1111.1	1.62
4	370.4	0.80
5	123.5	0.33
6	41.2	0.14
7	13.7	0.06

**Standard Curve Graph**



$$y = ((A - D)/(1 + (x/C)^B)) + D$$

○ Std (Standards: Concentration vs MeanValue)   
  $A$ : 0.119   
  $B$ : 1.051   
  $C$ : 1315.363   
  $D$ : 3.716   
  $R^2$ : 0.999

Standard Curve Background: 0.085, 450 nm OD

*For Research Use Only*