

## CERTIFICATE OF ANALYSIS

**Product:** AHR ELISA Kit (Human)  
**SKU:** OKEH04834  
**Lot:** KE1672  
**Expiration Date:** 2021.06

### Performance Characteristics:

Intra-Assay CV	<= 4.9%	Passed
Inter-Assay CV	<= 7.9%	Passed
Limit of Detection (LOD)		<= 0.15 ng/mL
Assay Range		0.312 - 20 ng/mL

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 20 ng Lyophilized AHR 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 AHR Standard	N/A	N/A	1,000	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	2.593
2	10	1.451
3	5.0	0.682
4	2.5	0.299
5	1.25	0.143
6	0.625	0.062

Standard Number	Concentration (ng/mL)	Background Adjusted OD Value
7	0.312	0.018

Standard Curve Graph

