

## CERTIFICATE OF ANALYSIS

**Product:** Estradiol ELISA Kit (General)  
**Sku:** OKEH02540  
**Lot:** KF0683  
**Expiration Date:** 2021.11

### Performance Characteristics:

|                          |         |                  |
|--------------------------|---------|------------------|
| Intra-Assay CV           | <= 4.1% | Passed           |
| Inter-Assay CV           | <= 8.0% | Passed           |
| Limit of Detection (LOD) |         | <= 1.33 ng/mL    |
| Assay Range              |         | 3.12 - 200 ng/mL |

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 200 ng Lyophilized Estradiol 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 Estradiol Standard | N/A                            | N/A                               | 1,000             | 200                         |
| 2                      | 200                             | 300                            | 300                               | 600               | 100                         |

| Standard Number (Tube) | Standard To Dilute | Volume Standard To Dilute (uL) | Volume Sample Diluent Buffer (uL) | Total Volume (uL) | Final Concentration (ng/mL) |
|------------------------|--------------------|--------------------------------|-----------------------------------|-------------------|-----------------------------|
| 3                      | 100                | 300                            | 300                               | 600               | 50                          |
| 4                      | 50                 | 300                            | 300                               | 600               | 25                          |
| 5                      | 25                 | 300                            | 300                               | 600               | 12.5                        |
| 6                      | 12.5               | 300                            | 300                               | 600               | 6.25                        |
| 7                      | 6.25               | 300                            | 300                               | 600               | 3.12                        |
| 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               | 200                   | 0.15                         |
| 2               | 100                   | 0.232                        |
| 3               | 50                    | 0.358                        |
| 4               | 25                    | 0.565                        |
| 5               | 12.5                  | 0.874                        |
| 6               | 6.25                  | 1.31                         |

| Standard Number | Concentration (ng/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 7               | 3.12                  | 1.638                        |

Standard Curve Graph

