

## CERTIFICATE OF ANALYSIS

**Product:** PRG4 ELISA Kit (Mouse)  
**Sku:** OKEH04393  
**Lot:** KE1007  
**Expiration Date:** 2021.02

### Performance Characteristics:

|                          |         |                  |
|--------------------------|---------|------------------|
| Intra-Assay CV           | <= 4.7% | Passed           |
| Inter-Assay CV           | <= 8.1% | Passed           |
| Limit of Detection (LOD) |         | <= 0.78 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 PRG4 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 PRG4 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                   | 2.637                        |
| 2               | 50                    | 1.308                        |
| 3               | 25                    | 0.574                        |
| 4               | 12.5                  | 0.232                        |
| 5               | 6.25                  | 0.108                        |
| 6               | 3.12                  | 0.049                        |

| Standard Number | Concentration (ng/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 7               | 1.56                  | 0.028                        |

Standard Curve Graph

