

CERTIFICATE OF ANALYSIS

Product: BMP2 ELISA Kit (Rat)
Sku: OKEH03997
Lot: KE1729
Expiration Date: 2021.06

Performance Characteristics:

| | | |
|--------------------------|---------|-------------------|
| Intra-Assay CV | <= 5.7% | Passed |
| Inter-Assay CV | <= 7.7% | Passed |
| Limit of Detection (LOD) | | <= 31.25 pg/mL |
| Assay Range | | 62.5 - 4000 pg/mL |

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 2 mL of Sample Diluent to the 8000 pg Lyophilized BMP2 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 (pg/mL) |
|------------------------|----------------------------|--------------------------------|-----------------------------------|-------------------|-----------------------------|
| 1 | Reconstitute BMP2 Standard | N/A | N/A | 2,000 | 4000 |
| 2 | 4000 | 300 | 300 | 600 | 2000 |

| Standard Number (Tube) | Standard To Dilute | Volume Standard To Dilute (uL) | Volume Sample Diluent Buffer (uL) | Total Volume (uL) | Final Concentration (pg/mL) |
|------------------------|--------------------|--------------------------------|-----------------------------------|-------------------|-----------------------------|
| 3 | 2000 | 300 | 300 | 600 | 1000 |
| 4 | 1000 | 300 | 300 | 600 | 500 |
| 5 | 500 | 300 | 300 | 600 | 250 |
| 6 | 250 | 300 | 300 | 600 | 125 |
| 7 | 125 | 300 | 300 | 600 | 62.5 |
| 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 (pg/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 1 | 4000 | 3.039 |
| 2 | 2000 | 1.731 |
| 3 | 1000 | 0.834 |
| 4 | 500 | 0.403 |
| 5 | 250 | 0.187 |
| 6 | 125 | 0.09 |

| Standard Number | Concentration (pg/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 7 | 62.5 | 0.046 |

Standard Curve Graph

