

## CERTIFICATE OF ANALYSIS

**Product:** PKM2 ELISA Kit (Human)  
**Sku:** OKEH02865  
**Lot:** KH0589  
**Expiration Date:** 2024.03

### Performance Characteristics:

|                          |         |                 |
|--------------------------|---------|-----------------|
| Intra-Assay CV           | <= 3.8% | Passed          |
| Inter-Assay CV           | <= 8.4% | Passed          |
| Limit of Detection (LOD) |         | <= 0.98 U/mL    |
| Assay Range              |         | 1.56 - 100 U/mL |

### Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 1 mL of Sample Diluent to the 100 U Lyophilized PKM2 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 (U/mL) |
|------------------------|----------------------------|--------------------------------|-----------------------------------|-------------------|----------------------------|
| 1                      | Reconstitute PKM2 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 (U/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 (U/mL) | Background Adjusted OD Value |
|-----------------|----------------------|------------------------------|
| 1               | 100                  | 1.781                        |
| 2               | 50                   | 1.359                        |
| 3               | 25                   | 0.942                        |
| 4               | 12.5                 | 0.474                        |
| 5               | 6.25                 | 0.231                        |
| 6               | 3.12                 | 0.102                        |

| Standard Number | Concentration (U/mL) | Background Adjusted OD Value |
|-----------------|----------------------|------------------------------|
| 7               | 1.56                 | 0.021                        |

### Standard Curve Graph

