

CERTIFICATE OF ANALYSIS

Product: Keratan sulfate ELISA Kit (General)
SKU: OKEH02547
Lot: KE1388
Expiration Date: 2021.05

Performance Characteristics:

| | | |
|--------------------------|---------|------------------|
| Intra-Assay CV | <= 4.3% | Passed |
| Inter-Assay CV | <= 7.5% | Passed |
| Limit of Detection (LOD) | | <= 0.089 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 Keratan sulfate 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 Keratan sulfate 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 | 0.028 |
| 2 | 10 | 0.05 |
| 3 | 5.0 | 0.091 |
| 4 | 2.5 | 0.171 |
| 5 | 1.25 | 0.297 |
| 6 | 0.625 | 0.516 |

| Standard Number | Concentration (ng/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 7 | 0.312 | 0.907 |

Standard Curve Graph

