**{{ kit\_name|default('ELISA Kit') }}**

**Catalog Number:** {{ catalog\_number|default('') }} **Lot Number:** {{ lot\_number|default('') }}

## INTENDED USE

{{ intended\_use|default('') }}

## TECHNICAL DETAILS

|  |  |
| --- | --- |
| **Capture/Detection Antibodies** | {{ technical\_details\_table[0].value|default('') }} |
| **Specificity** | {{ technical\_details\_table[1].value|default('') }} |
| **Standard Protein** | {{ technical\_details\_table[2].value|default('') }} |
| **Cross-reactivity** | {{ technical\_details\_table[3].value|default('') }} |

## OVERVIEW

|  |  |
| --- | --- |
| **Product Name** | {{ overview\_specifications\_table[0].value|default('') }} |
| **Reactive Species** | {{ overview\_specifications\_table[1].value|default('') }} |
| **Range** | {{ overview\_specifications\_table[2].value|default('') }} |
| **Sensitivity** | {{ overview\_specifications\_table[3].value|default('') }} |
| **Sample Type** | {{ overview\_specifications\_table[4].value|default('') }} |
| **Cross Reactivity** | {{ overview\_specifications\_table[5].value|default('') }} |
| **Storage** | {{ overview\_specifications\_table[6].value|default('') }} |
| **Expiration** | {{ overview\_specifications\_table[7].value|default('') }} |

## BACKGROUND

{{ background\_text|default('') }}

## KIT COMPONENTS

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Quantity** | **Volume** | **Storage of opened/reconstituted material** |
| {{ reagent\_1\_name|default('') }} | {{ reagent\_1\_quantity|default('') }} | {{ reagent\_1\_volume|default('') }} | {{ reagent\_1\_storage|default('') }} |
| {{ reagent\_2\_name|default('') }} | {{ reagent\_2\_quantity|default('') }} | {{ reagent\_2\_volume|default('') }} | {{ reagent\_2\_storage|default('') }} |
| {{ reagent\_3\_name|default('') }} | {{ reagent\_3\_quantity|default('') }} | {{ reagent\_3\_volume|default('') }} | {{ reagent\_3\_storage|default('') }} |
| {{ reagent\_4\_name|default('') }} | {{ reagent\_4\_quantity|default('') }} | {{ reagent\_4\_volume|default('') }} | {{ reagent\_4\_storage|default('') }} |
| {{ reagent\_5\_name|default('') }} | {{ reagent\_5\_quantity|default('') }} | {{ reagent\_5\_volume|default('') }} | {{ reagent\_5\_storage|default('') }} |
| {{ reagent\_6\_name|default('') }} | {{ reagent\_6\_quantity|default('') }} | {{ reagent\_6\_volume|default('') }} | {{ reagent\_6\_storage|default('') }} |
| {{ reagent\_7\_name|default('') }} | {{ reagent\_7\_quantity|default('') }} | {{ reagent\_7\_volume|default('') }} | {{ reagent\_7\_storage|default('') }} |

## MATERIALS REQUIRED BUT NOT PROVIDED

{{ required\_materials\_with\_bullets|default('') }}

## REAGENT PREPARATION

{{ reagent\_preparation|default('') }}

## DILUTION OF STANDARD

{{ dilution\_of\_standard|default('') }}

## PREPARATIONS BEFORE ASSAY

1. Prepare all reagents, samples, and standards according to the instructions.

2. Confirm that you have the appropriate non-supplied equipment available.

3. Spin down all components to the bottom of the tube before opening.

4. Don't let the 96-well plate dry out as this will inactivate active components.

5. Don't reuse tips and tubes to avoid cross-contamination. Avoid using reagents from different batches.

## ASSAY PROTOCOL

{{ assay\_protocol\_numbered|default('') }}

## TYPICAL DATA / STANDARD CURVE

This standard curve is for demonstration only. A standard curve must be run with each assay.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Concentration (pg/ml)** | **0** | **62.5** | **125** | **250** | **500** | **1000** | **2000** | **4000** |
| O.D. | {{ std\_od\_1|default('') }} | {{ std\_od\_2|default('') }} | {{ std\_od\_3|default('') }} | {{ std\_od\_4|default('') }} | {{ std\_od\_5|default('') }} | {{ std\_od\_6|default('') }} | {{ std\_od\_7|default('') }} | {{ std\_od\_8|default('') }} |

## INTRA/INTER-ASSAY VARIABILITY

Three samples of known concentration were tested on one plate to assess intra-assay precision.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **n** | **Mean (pg/ml)** | **Standard Deviation** | **CV (%)** |
| 1 | 16 | 150 | 9.15 | 6.1% |
| 2 | 16 | 602 | 43.94 | 7.3% |
| 3 | 16 | 1476 | 116.6 | 7.9% |

Three samples of known concentration were tested in separate assays to assess inter-assay precision.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **n** | **Mean (pg/ml)** | **Standard Deviation** | **CV (%)** |
| 1 | 24 | 145 | 10.15 | 7.0% |
| 2 | 24 | 618 | 49.44 | 8.0% |
| 3 | 24 | 1426 | 128.34 | 9.0% |

## REPRODUCIBILITY

Samples were tested in four different assay lots to assess reproducibility.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Lot 1** | **Lot 2** | **Lot 3** | **Lot 4** | **Mean** | **CV (%)** |
| **Sample 1** | 150 | 154 | 170 | 150 | 156 | 5.2% |
| **Sample 2** | 602 | 649 | 645 | 637 | 633 | 2.9% |
| **Sample 3** | 1476 | 1672 | 1722 | 1744 | 1654 | 7.2% |