# {{ kit\_name }}

## CATALOG NO: {{ catalog\_number }}

## LOT NO: {{ lot\_number }}

## INTENDED USE

{{ intended\_use }}

## BACKGROUND

{{ background }}

## PRINCIPLE OF THE ASSAY

{{ assay\_principle }}

## OVERVIEW

{{ overview }}

|  |  |
| --- | --- |
| Product Name | {{ overview\_specifications\_table[0].value }} |
| Reactive Species | {{ overview\_specifications\_table[1].value }} |
| Size | {{ overview\_specifications\_table[2].value }} |
| Description | {{ overview\_specifications\_table[3].value }} |
| Sensitivity | {{ overview\_specifications\_table[4].value }} |
| Detection Range | {{ overview\_specifications\_table[5].value }} |
| Storage Instructions | {{ overview\_specifications\_table[6].value }} |
| Uniprot ID | {{ overview\_specifications\_table[7].value }} |

## TECHNICAL DETAILS

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

{{ technical\_details }}

## PREPARATIONS BEFORE ASSAY

{{ preparations\_text }}

{% if preparations\_steps %}

{% for step in preparations\_steps %}

1. {{ step.text }}

{% endfor %}

{% endif %}

## KIT COMPONENTS/MATERIALS PROVIDED

|  |  |  |  |
| --- | --- | --- | --- |
| **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

* • •

{% if not req\_material\_1 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_2 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_3 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_4 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_5 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_6 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_7 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_8 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_9 %}{{ '' }}{% endif %}

* • •

{% if not req\_material\_10 %}{{ '' }}{% endif %}

## REAGENT PREPARATION

{{ reagent\_preparation }}

## SAMPLE PREPARATION

{{ sample\_preparation }}

## DILUTION OF STANDARD

{{ dilution\_of\_standard }}

## TYPICAL DATA / STANDARD CURVE

This standard curve is provided for demonstration only. A standard curve should be generated for each set of samples assayed.

## INTRA/INTER-ASSAY VARIABILITY

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

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

{{ variability\_data }}

## ASSAY PROTOCOL

1. {{ protocol\_step\_1|default('') }}

{% if not protocol\_step\_1 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_2|default('') }}

{% if not protocol\_step\_2 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_3|default('') }}

{% if not protocol\_step\_3 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_4|default('') }}

{% if not protocol\_step\_4 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_5|default('') }}

{% if not protocol\_step\_5 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_6|default('') }}

{% if not protocol\_step\_6 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_7|default('') }}

{% if not protocol\_step\_7 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_8|default('') }}

{% if not protocol\_step\_8 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_9|default('') }}

{% if not protocol\_step\_9 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_10|default('') }}

{% if not protocol\_step\_10 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_11|default('') }}

{% if not protocol\_step\_11 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_12|default('') }}

{% if not protocol\_step\_12 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_13|default('') }}

{% if not protocol\_step\_13 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_14|default('') }}

{% if not protocol\_step\_14 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_15|default('') }}

{% if not protocol\_step\_15 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_16|default('') }}

{% if not protocol\_step\_16 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_17|default('') }}

{% if not protocol\_step\_17 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_18|default('') }}

{% if not protocol\_step\_18 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_19|default('') }}

{% if not protocol\_step\_19 %}{{ '' }}{% endif %}

1. {{ protocol\_step\_20|default('') }}

{% if not protocol\_step\_20 %}{{ '' }}{% endif %}

## DATA ANALYSIS

{{ data\_analysis }}

## DISCLAIMER

This material is sold for in-vitro use only in manufacturing and research. This material is not suitable for human use. It is the responsibility of the user to undertake sufficient verification and testing to determine the suitability of each product's application. The statements herein are offered for informational purposes only and are intended to be used solely for your consideration, investigation and verification.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **n** | **Mean (pg/ml)** | **Standard Deviation** | **CV (%)** |
| 1 | {{ intra\_var\_sample1\_n }} | {{ intra\_var\_sample1\_mean }} | {{ intra\_var\_sample1\_sd }} | {{ intra\_var\_sample1\_cv }} |
| 2 | {{ intra\_var\_sample2\_n }} | {{ intra\_var\_sample2\_mean }} | {{ intra\_var\_sample2\_sd }} | {{ intra\_var\_sample2\_cv }} |
| 3 | {{ intra\_var\_sample3\_n }} | {{ intra\_var\_sample3\_mean }} | {{ intra\_var\_sample3\_sd }} | {{ intra\_var\_sample3\_cv }} |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **n** | **Mean (pg/ml)** | **Standard Deviation** | **CV (%)** |
| 1 | {{ inter\_var\_sample1\_n }} | {{ inter\_var\_sample1\_mean }} | {{ inter\_var\_sample1\_sd }} | {{ inter\_var\_sample1\_cv }} |
| 2 | {{ inter\_var\_sample2\_n }} | {{ inter\_var\_sample2\_mean }} | {{ inter\_var\_sample2\_sd }} | {{ inter\_var\_sample2\_cv }} |
| 3 | {{ inter\_var\_sample3\_n }} | {{ inter\_var\_sample3\_mean }} | {{ inter\_var\_sample3\_sd }} | {{ inter\_var\_sample3\_cv }} |

## REPRODUCIBILITY

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Lot 1** | **Lot 2** | **Lot 3** | **Lot 4** | **Mean** | **CV (%)** |
| **Sample 1** | {{ repro\_sample1\_lot1 }} | {{ repro\_sample1\_lot2 }} | {{ repro\_sample1\_lot3 }} | {{ repro\_sample1\_lot4 }} | {{ repro\_sample1\_mean }} | {{ repro\_sample1\_cv }} |
| **Sample 2** | {{ repro\_sample2\_lot1 }} | {{ repro\_sample2\_lot2 }} | {{ repro\_sample2\_lot3 }} | {{ repro\_sample2\_lot4 }} | {{ repro\_sample2\_mean }} | {{ repro\_sample2\_cv }} |
| **Sample 3** | {{ repro\_sample3\_lot1 }} | {{ repro\_sample3\_lot2 }} | {{ repro\_sample3\_lot3 }} | {{ repro\_sample3\_lot4 }} | {{ repro\_sample3\_mean }} | {{ repro\_sample3\_cv }} |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Concentration (pg/ml)** | **{{ std\_conc\_1|default('') }}** | **{{ std\_conc\_2|default('') }}** | **{{ std\_conc\_3|default('') }}** | **{{ std\_conc\_4|default('') }}** | **{{ std\_conc\_5|default('') }}** | **{{ std\_conc\_6|default('') }}** | **{{ std\_conc\_7|default('') }}** | **{{ std\_conc\_8|default('') }}** |
| 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('') }} |

* • Microplate reader capable of reading absorbance at 450 nm. Incubator.
* • Automated plate washer (optional)
* • Pipettes and pipette tips capable of precisely dispensing 0.5 µl through 1 ml volumes of aqueous solutions. Multichannel pipettes are recommended for a large numbers of samples.
* • Deionized or distilled water. 500 ml graduated cylinders. Test tubes for dilution.
* • Microplate reader capable of measuring absorbance at 450 nm
* • Adjustable pipettes and pipette tips
* • Test tubes for dilution
* • Deionized or distilled water