



Mouse/Rat Cotinine ELISA Kit

Catalog number: EK7131

For the measurement of Cotinine in Mouse/Rat serum.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

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Size: 96 wells/kit

Sample Type: Serum

Sensitivity: 0.073 ng/ml

Assay Range: 1-50 ng/ml

Storage: Product should be stored at 2-8 °C. Product is stable for 24 months from the date of manufacturing.

Introduction

The Calbiotech Mouse/Rat Cotinine ELISA Kit is intended for the measurement of Cotinine in Mouse/Rat serum.

Kit Components

Description	Quantity
Microwell coated with Goat x Rabbit IgG	12x8x1
Standard Set (ready to use)	0.25 ml
Control Set (ready to use)	0.25 ml
Cotinine Enzyme Conjugate (ready to use)	7 ml
Anti-Cotinine Antibody Reagent (ready to use)	12 ml
TMB Substrate (ready to use)	12 ml
Stop Solution (ready to use)	12 ml
Wash Concentrate, 20X: 1 bottle	25 ml

Standard Concentrations and Example Data

	OD 450 nm	Conc. ng/mL
Std 1	2.14	0
Std 2	1.70	0.6
Std 3	1.06	1.9
Std 4	0.45	5.6
Std 5	0.16	16.7
Std 6	0.06	50

Materials Required, but Not Provided

1. Distilled or deionized water
2. Precision pipettes
3. Disposable pipette tips
4. ELISA reader capable of reading absorbance at 450nm
5. Absorbance paper or paper towel
6. Graph paper

Warning and Precaution

1. For Research Use Only. Not for use in diagnostic procedures.
2. For laboratory use.
3. Potential biohazardous materials: The calibrator and controls contain human source components which have been tested and found non-reactive for hepatitis B surface antigen as well as HIV antibody with FDA licensed reagents. However, as there is no test method that can offer complete assurance that HIV, Hepatitis B virus or other infectious agents are absent, these reagents should be handled at the Biosafety Level 2, recommended in the Centers for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories." 1984.
4. Do not pipette by mouth. Do not smoke, eat, or drink in the areas in which specimens or kit reagents are handled.
5. The components in this kit are intended for use as an integral unit. The components of different lots should not be mixed.
6. It is recommended that standards, control and serum samples be run in duplicate.
7. Optimal results will be obtained by strict adherence to this protocol. Accurate and precise pipetting, as well as following the exact time and temperature requirements prescribed are essential. Any deviation from this may yield invalid data.

Specimen Collection and Handling

1. This Cotinine Direct ELISA Kit is to be used with Mouse/Rat serum. This assay has not tested for all possible applications. Cutoff criteria are important in deciding the sample dilution.
2. Specimens to which sodium azide has been added affect the assay.

Reagent Preparation

Prepare 1X Wash buffer by adding the contents of the bottle (25 ml, 20X) to 475 ml of distilled or deionized water. Store at room temperature

Assay Procedure

All reagents must be brought to room temperature (20-25°C) before use.

1. Pipette 10 µl of standards, controls and specimens into selected well in duplicate.
2. Add 100 µL of the Cotinine Antibody Reagent to each well.
3. Add 50 µL Cotinine Enzyme Conjugate to each well. Shake the plate, 10-30 seconds, to ensure proper mixing.
4. Incubate for 60 minutes at room temperature (20-25°C) preferably in the dark.
5. Briskly shake out the contents of the wells.
6. Rinse the wells 3 times with diluted Wash Solution (350 µl per well). Strike the wells sharply on absorbent paper to remove residual droplets.
7. Add 100 µl of TMB Substrate into each well.
8. Incubate for 30 minutes at room temperature.
9. Stop the enzymatic reaction by adding 50 µl of Stop Solution into each well.
10. Read absorbance on ELISA Reader at 450 nm within 10 minutes of adding the Stop Solution.

Calculation of Results

The standard curve is constructed as follows:

1. Check Cotinine standard value on each standard vial.
2. To construct the standard curve, plot the absorbance for Cotinine standards (vertical axis) versus Cotinine standard concentrations (horizontal axis) on a linear graph paper. Draw the best curve through the points.
3. Read the absorbance for controls and each unknown sample from the curve. Record the value for each control or unknown sample.

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