Mouse/Rat Cotinine ELISA Kit

Catalog number: EK7131

For detection of multiple analytes using one single assay.

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

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

BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Mouse/Rat Cotinine ELISA Kit

Catalog Number: EK7131

Size: 96 wells/kit

Sample Type: Serum or Urine

Sensitivity: 1 ng/ml

Assay Range: 5-100 ng/ml

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

Introduction

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

Kit Components

Description	Quantity
1.Microwell coated with polyclonal Ab to Cotinine	12x8x1
2.Standard Set (ready to use)	0.5 ml
3.Cotinine HRP Enzyme Conjugate (ready to use)	12ml
4. TMB Substrate (ready to use)	12ml
5.Stop Solution (ready to use)	12ml
6.Wash Concentrate (20X)	25ml

Standard Concentrations and example data

	OD 450 nm	Conc. ng/mL
Std 1	2.92	0
Std 2	1.53	5
Std 3	0.85	10
Std 4	0.43	25
Std 5	0.27	50
Std 6	0.16	100

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

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

WARNINGS AND PRECAUTIONS

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 HANDLING

1. This Cotinine Direct ELISA Kit is to be used with Mouse/Rat urine or 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.

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 Enzyme Conjugate to each well. Shake the plate, 10-30 seconds, to ensure proper mixing.
3. Incubate for 60 minutes at room temperature (20-25□C) preferably in the dark.
4. Wash the wells 6 times with 300 µl distilled water using either a suitable plate washer or wash bottle taking care not to cross contaminate wells.
5. Invert wells and vigorously slap dry on absorbent paper to ensure all residual moisture is removed. This step is critical to ensure that residual enzyme conjugate, does not skew results. If using an automated system, ensure that the final aspiration on the wash cycle aspirates from either side of the well.
6. Add 100 µl of Substrate reagent to each well.
7. Incubate for 30 minutes at room temperature, preferably in the dark.
8. Add 100 µl of Stop Solution to each well. Shake the plate gently to mix the solution.
9. Read absorbance on ELISA Reader at 450nm with in 15 minutes after adding the stopping solution.

CALCULATION OF RESULTS

1. The standard curve is constructed as follows:
2. Check Cotinine standard value on each standard vial.
3. 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.
4. Read the absorbance for controls and each unknown sample from the curve. Record the value for each control or unknown sample.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Submit a Product Review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a $20 Amazon.com gift card! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Mouse/Rat Cotinine ELISA Kit

For Research Use Only. Not for use in diagnostic procedures.