



PicoKine™ ELISA

Catalog number: EK7006

For the quantitation of **Human** concentrations in Serum

This package insert must be read in its entirety before using this product. For research use only. Not for use in diagnostic procedures.

Human Prolactin ELISA Kit

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Introduction

The Prolactin ELISA kit is a solid phase sandwich ELISA assay method, based on a streptavidin-biotin principle. The standards, samples and a reagent mixture of Anti-Prolactin Enzyme and Biotin conjugates are added into the wells, coated with Streptavidin. Prolactin in the patient's serum forms a sandwich between two highly specific Prolactin antibodies, labeled with Biotin and HRP. Simultaneously, the biotinylated antibody is immobilized onto the well through a high affinity Streptavidin-Biotin interaction. Unbound protein and excess biotin/enzyme conjugated reagent are washed off by wash buffer. Upon the addition of the substrate, the intensity of color developed is directly proportional to the concentration of Prolactin in the samples. A standard curve is prepared relating color intensity to the concentration of the Prolactin.

Overview

Product Name	Human Prolactin ELISA Kit
Reactive Species	Human
Size	96wells/kit, with removable strips.
Description	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Prolactin. 96wells/kit, with removable strips.
Sensitivity	5 ng/ml *The sensitivity or the minimum detectable dose (MDD) is the lower limit of target protein that can be detected by the kit. It is determined by adding two standard deviations to the mean O.D. value of twenty (20) blank wells and calculating the corresponding concentration.
Detection Range	5-100 ng/ml
Storage Instructions	Store the kit at 2°C to 8°C. Keep microwells sealed in a dry bag with desiccants. The reagents are stable until expiration of the kit. Do not expose reagent to heat, sun, or strong light. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)
Cross Reactivity	There is no detectable cross-reactivity.

Kit Components/Materials Provided

Description

Microwells coated with Streptavidin
Prolactin Standards
Enzyme Conjugate
TMB Substrate

Quantity

12x8x1 Microwells
6 vials (ready to use) 0.5ml
1 bottle (ready to use) 12ml
1 bottle (ready to use) 12ml

Phone: 888-466-3604

Fax: 925-215-2184

Email: support@bosterbio.com

Web: www.bosterbio.com

Stop Solution
20X Wash concentrate

1 bottle (ready to use) 12ml
1 bottle 25ml

Required Materials That Are Not Supplied

1. Distilled or deionized water
2. Precision pipettes
3. Disposable pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection.
4. ELISA reader capable of reading absorbance at 450nm
5. Absorbance paper or paper towel
6. Graph paper

WARNINGS AND PRECAUTIONS

1. For Research Use Only. Not for use in diagnostic procedures.
2. 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, 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, as recommended in the Centers for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories" 1984.
3. Do not pipette by mouth. Do not smoke, eat, or drink in the areas in which specimens or kit reagents are handled.
4. The components in this kit are intended for use as an integral unit. The components of different lots should not be mixed.
5. It is recommended that standards, control and serum samples be run in duplicate.
6. 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.
7. Do not use **sodium azide** as preservative. Sodium azide inhibits HRP enzyme activities.

SPECIMEN COLLECTION HANDLING

1. Collect blood specimens and separate the serum immediately.

2. Typically, specimens may be stored refrigerated at (2°C to 8°C) for 5 days. If storage time exceeds 5 days, store frozen at (-20°C) for up to one month.

3. Avoid multiple freeze-thaw cycles.

4. Prior to assay, frozen sera should be completely thawed and mixed well.

5. Do not use grossly lipemic specimens.

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 (20-25°C).

ASSAY PROCEDURE

Prior to assay, allow reagents to stand at room temperature (20-25°C).

Gently mix all reagents before use.

1. Place the desired number of coated strips into the holder.

2. Pipette 25 ul of Prolactin standards, control and patient's sera.

3. Add 100 ul of enzyme conjugate to all wells.

4. Cover the plate and incubate for 60 minutes at room temperature (20-25°C).

5. Remove liquid from all wells. Remove liquid from all wells. Wash wells three times with 300 ul of 1X wash buffer. Blot on absorbance paper or paper towel.

6. Add 100 ul of TMB substrate to all wells.

7. Incubate for 15 minutes at room temperature.

8. Add 50 ul of stop solution to all wells. Shake the plate gently to mix the solution.

9. Read absorbance on ELISA Reader at 450 nm within 15 minutes after adding the stopping solution.

CALCULATION OF RESULTS

The standard curve is constructed as follows:

1. Check Prolactin standard values on each standard vial. This value might vary from lot to lot. Make sure you check the value on every kit. See

example of the standard attached.

2. To construct the standard curve, plot the absorbance for the standards (vertical axis) versus the 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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