

Manufactured for:

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Instructions for use

Toxoplasma IgA ELISA

Enzyme Immunoassay for the determination of IgA antibody to
Toxoplasma in human serum or plasma.

For Research Use Only, Not for Use in Diagnostic Procedures.

REF

IB19212

RUO

Toxoplasma IgA ELISA

1. Intended use

The Toxoplasma IgA ELISA kit is intended for the detection of IgA antibody to Toxoplasma in human serum or plasma. For research use only, not for use in diagnostic procedures.

2. Principle of the test

Diluted serum is added to wells coated with purified Toxoplasma antigen. Toxoplasma IgG specific antibody, if present, binds to the antigen. All unbound materials are washed away and the enzyme conjugate is added to bind to the antibody-antigen complex, if present. Excess enzyme conjugate is washed off and substrate is added. The plate is incubated to allow the hydrolysis of the substrate by the enzyme. The intensity of the color generated is proportional to the amount of IgA specific antibody in the unknown.

3. Warnings and Precautions

1. 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, as recommended in the Centers for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories." 1984.

2. This kit is designed for research use only, not for use in diagnostic procedures.

3. Optimal results will be obtained by strict adherence to the test protocol. Precise pipetting as well as following the exact time and temperature requirements is essential.

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. Control sera and sample diluent contain preserved with sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azide. On disposal, flush with a large volume of water.

4. Storage and stability

1. Store the kit at 2-8°C.

2. Keep microwells sealed in a dry bag with desiccants.

3. The reagents are stable until expiration of the kit.

4. Do not expose test reagents to heat, sun or strong light.

5.1 Contents of the kit

1. Microwell coated with Toxoplasma antigen 12x8x1

2. Sample Diluent: 1 bottle (ready to use) 22 ml

3. Calibrator: 1 Vial (ready to use) 1.0ml

4. Positive Control: 1 vial (ready to use) 1.0ml

5. Negative Control: 1 vial (ready to use) 1.0ml

6. Enzyme conjugate: 1 bottle (ready to use) 12ml

7. TMB Substrate: 1 bottle (ready to use) 12ml

8. Stop Solution: 1 bottle (ready to use) 12ml

9. Wash concentrate 20X: 1 bottle 25ml

5.2 Additional materials and equipment required but not provided in the kit

1. Distilled or deionized water

2. Precision pipettes

3. Disposable pipette tips

4. ELISA reader capable of reading absorbance at 450 nm

5. Absorbance paper or paper towel

6. Graph paper

6. Collection and Handling of Unknowns

1. Collect blood and separate the serum.

2. Unknowns may be refrigerated at 2-8° C for up to seven days or frozen for up to six months. Avoid repetitive freezing and thawing.

7. 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 (18-26 °C).

8. Test procedure

Bring all unknowns and kit reagents to room temperature (18-26 °C) and gently mix.

1. Place the desired number of coated strips into the holder.
2. Negative control, positive control, and calibrator are ready to use. Prepare 1:21 dilution of unknowns, by adding 10 µl of the unknown to 200 µl of sample diluent. Mix well.
3. Dispense 100 µl of diluted sera, calibrator and controls into the appropriate wells. For the reagent blank, dispense 100µl sample diluent in 1A well position. Tap the holder to remove air bubbles from the liquid and mix well. Incubate for 20 minutes at room temperature.
4. Remove liquid from all wells. Wash wells three times with 300 µl of 1X wash buffer. Blot on absorbance paper or paper towel.
5. Dispense 100 µl of enzyme conjugate to each well and incubate for 20 minutes at room temperature.
6. Remove enzyme conjugate from all wells. Wash wells three times with 300 µl of 1X wash buffer. Blot on absorbance paper or paper towel
7. Dispense 100 µl of TMB substrate and incubate for 10 minutes at room temperature.
8. Add 100 µl of stop solution.
9. Read O.D. at 450 nm using ELISA reader within 15 min. A dual wavelength is recommended with reference filter of 600-650 nm.

9. Results

1. Check Calibrator Factor (CF) value on the calibrator bottle. This value might vary from lot to lot. Make sure you check the value on every kit.
2. Calculate cut-off value: Calibrator OD x Calibrator Factor (CF).
3. Calculate the Ab (Antibody) Index of each determination by dividing the mean values of each unknown by cut-off value.

9.1 Quality Control

The test run may be considered valid provided the following criteria are met:

1. The O.D. of the Calibrator should be greater than 0.250.
2. The Ab index for Negative control should be less than 0.9.
3. The Ab Index for Positive control should be greater than 1.2.

9.2 Interpretation

The following is intended as a guide to interpretation of Toxoplasma IgA test results; each laboratory is encouraged to establish its own criteria for test interpretation based on populations encountered.

Antibody Index Interpretation

- <0.9 No detectable IgA antibody to Toxoplasma.
- 0.9-1.1 Borderline positive. Follow-up testing is recommend if indicated.
- >1.1 detectable IgA antibody to Toxoplasma.

10. Limitations of the Test

1. Lipemic or hemolyzed unknowns may cause erroneous results.

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