



DRG® Anti-Hepatitis B Core Antigen ELISA (EIA-3894)

Revised 8 Feb. 2010 rm (Vers. 1.1)

USA: RUO

NAME AND INTENDED USE

Kit for Antibody to Hepatitis B Core Antigen (ELISA) is an enzyme immunoassay for the detection of Anti-HBc in human serum or plasma. In the United States, this kit is intended for Research Use Only.

PRINCIPLE

The purified recombinant HBcAg is coated on the solid phase of multi-wells. Serum sample and Horseradish peroxidase labeled with Anti-HBc (conjugated) are added to coated wells, and form competitive combination. After incubation, if Anti-HBc content is high in the sample, a complex of HBcAg-Anti-HBc will form, and little complex of HBcAg-Anti-HBc labeled with HRP will form. Wash wells to remove these complex, incubate with substrates (TMB), subsequently there is little color change. If Anti-HBc is not present in the sample, there is much color change. The test is special, sensitive, reproducible and easy to operate.

STORAGE AND STABILITY

Store the kit at $2\sim8^{\circ}$ C. The kit is stable within the expiration date printed on kit boxes. Do not freeze or use the kit beyond the expiration date.

MATERIALS PROVIDED

1. Coated Microwell Plate (HBcAg)	1 block (96 wells)
2. Enzyme Conjugant	1 bottle (6 ml)
3. Positive Control Serum	1 vial (0.5 ml)
4. Negative Control Serum	1 vial (0.5 ml)
5. Wash Buffer (1:20 dilution prior to use)	1 bottle (30 ml)
6. Substrate A	1 bottle (6 ml)
7. Substrate B	1 bottle (6 ml)
8. Stop Solution	1 bottle (6 ml)
9. Seal Paper	1 piece

PRECAUTIONS

- 1. Shake the bottled reagents well before use, discard 1~2 drops and drop vertically.
- 2. Bring Kit for Antibody to Hepatitis B Core Antigen (ELISA) (all reagents), and samples to room temperature before use (approximately 30 minutes), put the remained reagents to the sealed pouch, and return to $2\sim8^{\circ}$ C in time.
- 3. The NaN₃ can't be used to preserve the reagents.
- 4. Do not interchange reagents between kit lots.
- 5. Results should be read out within 10 minutes.
- 6. Resolve the concentrated wash solution at 37°C if crystals appear.





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- 7. Handle all reagents, samples and controls as if capable of transmitting an infectious agent. It is recommended that these reagents and samples be handled using established good laboratory working practices.
- 8. The seal paper cannot be used repeatedly.
- 9. Dilute the wash solution with distilled water to 1: 20 prior to use.
- 10. Dilute the sample with diluted wash solution.
- 11.Do not use kit beyond its expiration date. The date is printed on kit boxes.
- 12. The shelf life is 12 months.

TEST PROCEDURE

- 1. Dilute the serum sample with diluted wash solution to 1:30 if the test is used in clinical, or dilute the serum sample with diluted wash solution to 1:5 if the test is used in epidemiological. Either of them can be chosen.
- 2. Set one blank, two positive and two negative controls for each test, add 0.05ml serum sample, positive and negative control serum into the coated wells, then add one drop (approximately 0.05ml) of enzyme conjugant into the same coated wells (The blank well is
- omitted), mix thoroughly, and incubate for 60 minutes at 37°C.
- 3. Manual Wash Procedure: Discard the liquid in the coated wells and bring them to dry. Fill the wells with wash solution, discard the liquid, and bring them to dry. Repeat 5 times.
- Automatic Wash Procedure: Select the automatic operations of washing 5 times and bring them to dry after the operation.
- 4. Add one drop (approximately 0.05ml) of substrate A and B respectively to each well, and incubate for 10 minutes at 37° C.
- 5. Add one drop (approximately 0.05ml) of stop solution into each well, mix thoroughly, and measure the absorbance at 450nm against the blank.