DRG® Anti-HAV IgM ELISA (EIA-3889)

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This kit is intended for Research Use Only.

Not for use in diagnostic procedures.

INTENDED USE

The DRG Anti-HAV IgM ELISA Kit is an in vitro enzyme immunoassay for the detection of HAV-IgM in human serum or plasma.

PRINCIPLE

The purified Anti-µ-chain is coated on the solid phase of multi-wells. Serum sample, HAVAg and Horseradish peroxidase labeled with Anti-HAV (conjugated) are added to coated wells. After incubation, if HAV-IgM is present in the sample, a complex of Anti-µ-chain-HAV-IgM-HAVAg-Anti-HAV labeled with HRP will form. Wash wells to remove other unbounded serum components, incubate with substrate (TMB) to form a colored product, and measure the absorbance at 450nm to indicate the presence or absence of HAV-IgM in the sample. The test is special, sensitive, reproducible and easy to operate.

STORAGE AND STABILITY

Store the kit at 2-8ºC. 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. Anti-µ-chain Coated Wells	1 block (96wells)
2. Enzyme Conjugant	1 bottle (6ml)
3. Positive Control Serum	1 vial (0.5ml)
4. Negative Control Serum	1 vial (0.5ml)
5. Wash Buffer (1:20 dilution prior to use)	1 bottle (50ml)
6. Substrate A	1 bottle (6ml)
7. Substrate B	1 bottle (6ml)
8. Stop Solution	1 bottle (6ml)
9. HAV Ag	1 bottle (6ml)
10. Seal Paper	2 pieces

PRECAUTIONS

1. Shake the bottled reagents well before use, discard 1~2 drops and drop vertically.

2. Bring DRG Anti-HAV IgM ELISA Kit (all reagents), and samples to room temperature before use (approximately 30 minutes), put the remained reagents to the sealed pouch, and return to 2-8ºC in time.
3. The NaN_3 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 37ºC if crystals appear.
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. Do not use kit beyond its expiration date. The date is printed on kit boxes.
11. The shelf life is 12 months.

TEST PROCEDURE

1. Dilute the sample with physiological saline solution to 1:1000.
2. Set one blank, two positive and two negative controls for each test, add 100µl serum sample, positive and negative control serum into the coated wells, seal the wells with seal paper, and incubate for 30 minutes at 37°C.
3. Discard the liquid in the coated wells and bring them to dry. Fill the wells with wash solution, lay aside for 30 seconds, discard the liquid, and bring them to dry. Repeat 5 times.
4. Add one drop (approximately 0.05 ml) of enzyme conjugant and HAVAg into the same coated wells (The blank well is omitted), mix thoroughly, seal the wells with seal paper, and incubate for 30 minutes at 37ºC
5. Repeat the wash step as described in Step 3.
6. Add one drop (approximately 0.05 ml) of substrate A and B respectively to each well, mix thoroughly, and incubate for 10 minutes at 37ºC.
7. Add one drop (approximately 0.05 ml) of stop solution into each well, mix thoroughly, and measure the absorbance at 450nm against the blank.