

# HBsAg Subtype EIA

## EIA based hepatitis B surface antigen subtyping kit with monoclonal antibodies

This kit has been developed as a reagent for research purposes to detect respective subtypic determinants, d, y, r, and w, in hepatitis B surface antigen (HBsAg) positive samples for identification of HBsAg subtypes such as adr, adw, ayr and ayw. Detection of subtypic determinants is based on the solid-phase sandwich EIA (Enzyme Immuno Assay). 96 wells of the microplate are coated with monoclonal antibody against the common determinant a of HBsAg. HBsAg in samples dispensed to wells is caught on the solid phase and their subtypic determinant, d, y, r, or w, is detected by peroxidase-labeled monoclonal antibody against corresponding determinant.



### Application

Determination of subtypes of hepatitis B surface antigen (HBsAg) in serum or plasma.



### Features

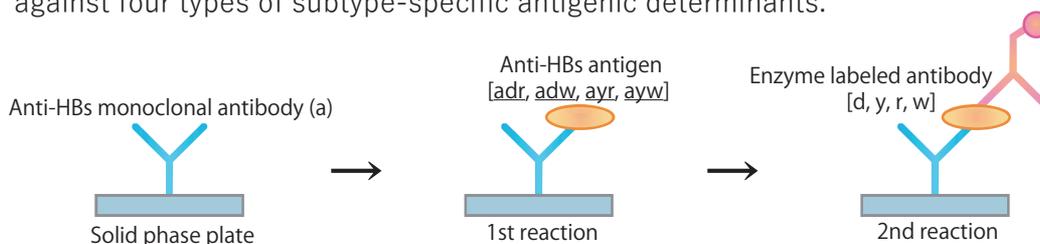
- Determining HBs antigen subtype using two-step sandwich EIA method
- Uses a 12-division type antibody solid phase plate with 8 wells per strip
- Reaction time is 5 hours 30 minutes

### Kit Components

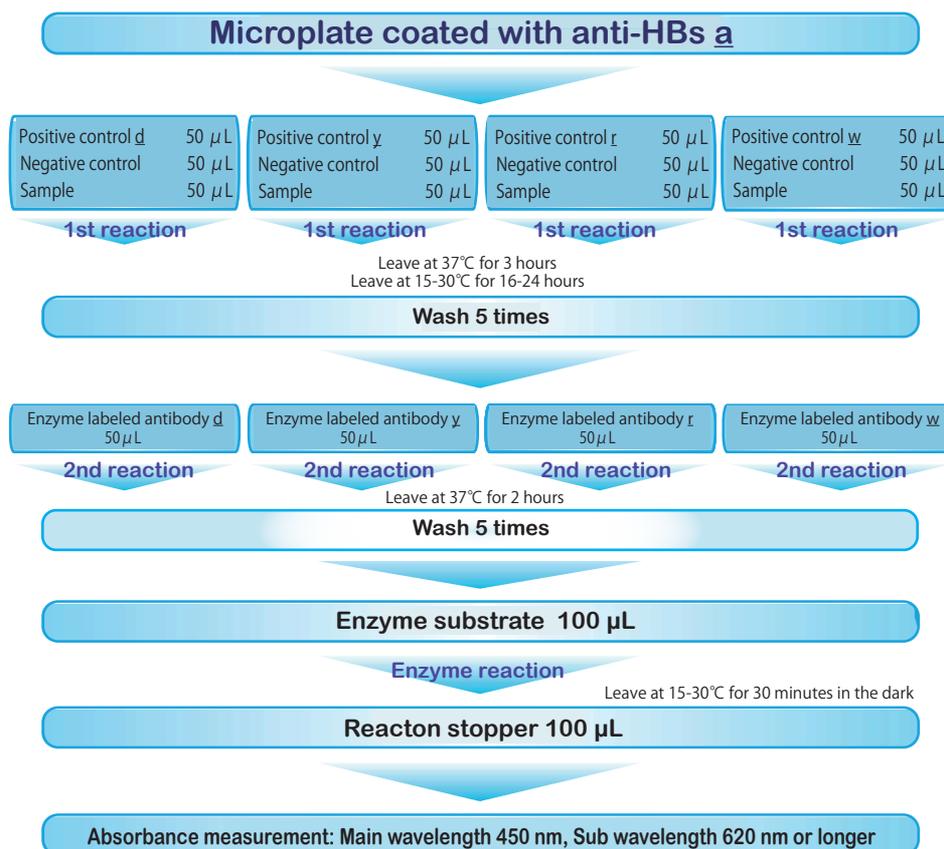
1. Microplate coated with anti-HBs a (8 wells x 12 strips) ..... 1 plate
2. HBsAg negative control ..... 1 mL x 1 vial
3. HBsAg positive control (d) ..... 0.5 mL x 1 vial
4. HBsAg positive control (y) ..... 0.5 mL x 1 vial
5. HBsAg positive control (r) ..... 0.5 mL x 1 vial
6. HBsAg positive control (w) ..... 0.5 mL x 1 vial
7. Enzyme labeled monoclonal antibody (d) ..... 1.5 mL x 1 vial
8. Enzyme labeled monoclonal antibody (y) ..... 1.5 mL x 1 vial
9. Enzyme labeled monoclonal antibody (r) ..... 1.5 mL x 1 vial
10. Enzyme labeled monoclonal antibody (w) ..... 1.5 mL x 1 vial
11. Enzyme substrate ..... 10 mL x 1 vial
12. Reaction stopper ..... 10 mL x 1 vial
13. 20x concentrated washing solution ..... 25 mL x 2 vials
14. Plate seal ..... 5 sheets

## Assay Principle

Determined by a two-step sandwich EIA method using a monoclonal antibody against common antigenic determinant a of HBs antibodies and mouse monoclonal antibodies against four types of subtype-specific antigenic determinants.



## Assay Procedure



### [Reference]

Usuda S, Tsuda F, et al: J Immunol Methods 87: 203-210, 1986.

### Product Information

Product code	Product name	Package	Storage	Shelf life
1A63	HBsAg Subtype EIA	24 tests	2-10°C	1 year

### Another hepatitis B reagent

Product code	Product name	Package	Storage	Shelf life
1A65	IMMUNIS HBV Genotype EIA	48 tests	2-10°C	1 year

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