

HBsAg ELISA Kit



Technology: One-step sandwich assay for detection of HBsAg in Human Serum / Plasma



Analytical sensitivity:- 0.1ng / ml



Substrate: Ready to use



Assay time: 90 mins (60 mins + 30 mins)



Breakaway wells: Useful for small workload



Open reagent: Adaptable to all ELISA readers and washers



Controls: Ready to use positive and negative controls



User-friendly: Color coded reagent bottles



Methodology

HBsAg ELISA is an enzyme immunoassay based on the one-step sandwich principle. The monoclonal anti-HBs antibody is coated onto the wells of the micro-titer plate. The polyclonal anti-HBs antibodies conjugated with peroxidase and serum or plasma samples are added to these wells. The Hepatitis B surface antigen, if it is present in the sample simultaneously reacts with the mouse monoclonal antibodies against HBsAg attached to the wells of microwell plate

TEST PROCEDURE

Add 50 µL N.C. to 1A-1C P.C to 1D-1E and Test samples from 1F																																																																		
Prepare working conjugate solution (100X)	<table><tr><td>No. of strip</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>Enzyme conjugate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Concentrate (µl).</td><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td><td>35</td><td>40</td><td>45</td><td>50</td><td>55</td><td>60</td></tr><tr><td>Conjugate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Diluent(ml).</td><td>0.5</td><td>1.0</td><td>1.5</td><td>2.0</td><td>2.5</td><td>3.0</td><td>3.5</td><td>4.0</td><td>4.5</td><td>5.0</td><td>5.5</td><td>6.0</td></tr></table>	No. of strip	1	2	3	4	5	6	7	8	9	10	11	12	Enzyme conjugate													Concentrate (µl).	5	10	15	20	25	30	35	40	45	50	55	60	Conjugate													Diluent(ml).	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
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Add Prepared Enzyme (50 µL)																																																																		
Cover the plate and incubate for 60 mins at 37°C																																																																		
Wash (5 cycles)																																																																		
Add 100 µL working substrate (Ready to use)																																																																		
Incubate in dark for 30 mins at 37°C																																																																		
Add 50 µL Stop Solution and read result at 450 nm / 630 nm**																																																																		

VALIDATION CRITERIA

NC \bar{x} less than 0.2
PC \bar{x} more than 0.8

DATA INTERPRETATION

Cut-Off Formula: $NC \bar{x} + 0.200$
Samples with absorbance
greater than cut-off value are
considered positive

PERFORMANCE
CHARACTERISTICS

Sensitivity: $\geq 99.33\%$
Analytical Sensitivity: 0.1 ng/ml
Specificity: $\geq 99.99\%$

ORDERING INFORMATION

Product Code	Name of Product	Pack size	Storage	Shelf Life
30201151	HBsAg ELISA Kit	96 Tests	2-8 °C	15 months

AW:HBV-EIA/BRO/01/03-23/EN



*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.

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