STRINGENT PURIFICATION PROCEDURE

MP Diagnostics High Purity HBsAg and Anti-HBs are produced in an EN ISO 13485:2012 + AC:2012 certified manufacturing facility in Singapore. Product Quality is assured from sourcing of plasma to the finished product.

Human HBsAg Plasma Subphase: d or ay
Realkification CaCl$_2$ and Adding Thrombin

Human HBsAg Serum

Partially Purified Anti-HBs

Immune Complex

Complex Dissociation

Zonal Separation

Zonal Separated HBsAg

Purification

Neutralization and Purification

Purified HBsAg

Order your Purified HBsAg & Anti-HBs today! enquiry_ap@mpbio.com

PURIFIED HBsAg & Anti-HBs

PREMIUM QUALITY ASSURED
PURIFIED HBsAg
DERIVED FROM HUMAN PLASMA

PREMIUM QUALITY ASSURED

Purity
• Highly purified. Purity: 95% - 100%
• Presence of characteristic sub-units confirmed by silver stain SDS-PAGE
• Determined quantitatively by SE-HPLC

Reactivity
• Endpoint activity titer determined by ELISA
• Antigenic activity of each major sub-unit confirmed by Western Blot

High Quality and Controlled Source of HBsAg
• All human plasma units certified by FDA or CE marked approved tests to be negative for HIV-1 antigen, antibodies to HIV-1, HIV-2 and HCV
• HBsAg subtype for each plasma unit is confirmed at source and/or re-confirmed in-house using monoclonal antibody EIA kits
• Optimized product safety through inactivation to minimize infectious potential
• Highly stable with a product shelf life of >8 years

Concentration
• Guaranteed protein content of 1 - 2 mg/ml

PRODUCT PRESENTATIONS
• Subtypes available: ad and ay
• Genotypes (upon request): adw, adr, ayr, ayt
• Choice of final buffer for heat inactivated Purified Human HBsAg:
  - PBS (Phosphate buffered saline), 5% Sucrose and 0.01% Sodium azide
  - PBS, 5% Sucrose

INTENDED USE OF PURIFIED HUMAN HBsAg
• For manufacturing of Hepatitis diagnostic kits to detect HBsAg in human serum or plasma
• As positive controls included in diagnostic kits for verification of performance
• For basic or applied biomedical research use

PURIFIED ANTI-HBs
DERIVED FROM GUINEA PIG SERUM

QUALITY YOU CAN TRUST

Purity
• High purity is ensured by SDS-PAGE which shows one major band present at 55-60kD

Reactivity
• Endpoint activity titer determined by ELISA

Highly Stable
• Validated stability data supporting a product shelf life of >8 years

Concentration
• Guaranteed protein content of 1 - 2 mg/ml

PRODUCT PRESENTATIONS
• Subtypes available: ad and ay
• Choice of final buffer: PBS (Phosphate buffer saline), 5% sucrose and 0.1% Sodium azide

INTENDED USE OF PURIFIED ANTI-HBs
• For manufacturing of Hepatitis diagnostic kits to detect HBsAg in human serum or plasma
• For basic or applied biomedical research use

ORDER INFORMATION

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CAT. NO.</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>HBsAg (ad)</td>
<td>07COMM0002</td>
<td>mg</td>
<td>Heat inactivated purified HBsAg, subtype &quot;ad&quot; in PBS, pH 7.2, 5% Sucrose, 0.01% Sodium azide</td>
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<tr>
<td>HBsAg (ad)</td>
<td>07COMM0004</td>
<td>mg</td>
<td>Heat inactivated purified HBsAg, subtype &quot;ad&quot; in PBS, pH 7.2, 5% Sucrose</td>
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<tr>
<td>HBsAg (ay)</td>
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<td>HBsAg (ay)</td>
<td>07COMM0014</td>
<td>mg</td>
<td>Heat inactivated purified HBsAg, subtype &quot;ay&quot; in PBS, pH 7.2, 5% Sucrose</td>
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<tr>
<td>Anti-HBs (ad)</td>
<td>07COMM0011</td>
<td>mg</td>
<td>Native Heat Inactivated Guinea pig anti-HBs, subtype &quot;ad&quot; in PBS, pH 7.2, 5% Sucrose, 0.1% Sodium azide</td>
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<tr>
<td>Anti-HBs (ay)</td>
<td>07COMM0061</td>
<td>mg</td>
<td>Native Heat Inactivated Guinea pig anti-HBs, subtype &quot;ay&quot; in PBS, pH 7.2, 5% Sucrose, 0.1% Sodium azide</td>
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</tbody>
</table>

Contact us for a quote today! enquiry_ap@mpbio.com