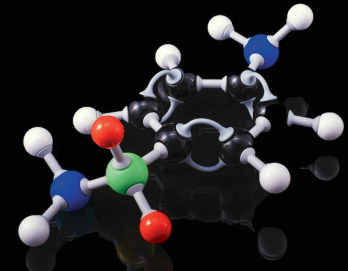




# HBsAg Ay Subtype

## Who are we?

Established in 1999 in Mumbai, Yashraj Biotechnology Ltd. (YBL), is a research and innovation driven Biotechnology Company. YBL started its operations in niche diagnostic reagents (native antigens) and has since expanded its product range to provide end-to-end solutions to our customers in life-sciences, diagnostics.



## About the Product

### HBsAg Ay

HBsAg (also known as the Australia antigen) is the surface antigen of the hepatitis B virus (HBV). Its presence in blood indicates hepatitis B infection. It has two determinants, Ad and Ay, and helps in the detection of hepatitis infection or any other liver ailments. The serologic heterogeneity of the hepatitis B virus (HBV) has been established from immunodiffusion experiments for a long time. Four serotypes called subtypes of the hepatitis B surface antigen (HBsAg) have been defined by two mutually exclusive determinant pairs, d/y and w/r, and a common determinant, a. These subtypes are adw, ayw, adr, and ayr. The two determinants Ad and Ay help in detection of Hepatitis infection or any other liver ailments

## Reference

Subtypes, genotypes, and molecular epidemiology of the hepatitis B virus as reflected by the sequence variability of the S-gene. L O Magnus 1, H Norder.

## Source

HBsAg subtype Ay Positive Plasma

## Application

- Manufacturing Controls and Calibrators
- Life Science
- Clinical Chemistry
- Biosensors
- ELISA Assay
- Lateral Flow

## Why YBL?

### USPs

- We ensure **batch-to-batch consistency on a large scale**, providing you with high-quality products every time.
- We offer the **shortest lead times** in the industry, allowing you to receive your products quickly and efficiently.
- We have a **reliable global network of hospitals** that supply us with high-quality biofluids and biospecimens, ensuring that we always have the materials we need to meet your requirements.
- Our products are **customized** to meet your specific needs, and we can **validate them across multiple applications** as per your needs, providing you with reliable results every time.
- With over **20 years of experience in protein purification**, our team has the expertise to deliver high-quality products that meet your exact specifications.



For more product info.  
**SCAN HERE**

**ORDER YOUR SAMPLE TODAY:**

✉ [marketing@yashrajbio.com](mailto:marketing@yashrajbio.com)

☎ +91 22 68125300

🌐 [www.yashraj.com](http://www.yashraj.com)





# HBsAg Ay Subtype

## HBsAg (Hepatitis B Surface Antigen type-Ay)

**Batch No**

FHByXXXX

**CAT No.**

FHBy-18-03

**Grade**

High Pure (>99%)

**Expiry**

3 Years

**Origin**

Human Blood

**Store in**

2-8°C in working aliquots

Sr. No.	Test	Test Method	Acceptance Criteria
01	Identification	ELISA	Positive for HBsAg
02	HBsAg Content	BIORAD (Against PEI Standard)	2-4 mg/ml
03	Total Protein	$OD_{280} - OD_{320} / \epsilon = 3.726$	2-4 mg/ml
04	'Ay' subtype-Purity	ELISA	>99%
05	Purity Profile	SDS-PAGE	Match Internal Ref. Std.
06	Aggregation	Size Exclusion Chromatography (GFC)	<9%
07	Bio-burden	Plate Count	≤10 CFU/ml
08	Viral Marker Test For Anti-HIV <sub>I&amp;II</sub> and Anti-HCV	CLIA (USFDA Approved)	Negative
09	Absence of Viral DNA/RNA for HIV I and HCV	PCR	Negative

## Stability Information

**Product Name** : HBsAg-Ay

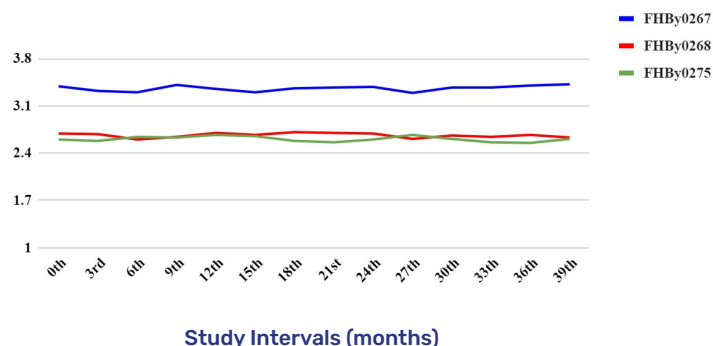
**Method of Testing** : BIORAD ELISA (Against PEI Standard)

**Batch No.** : FHBy0267, FHBy0268, FHBy0275

**Unit of Release** : mg/ml

HBsAg-Ay Conc (mg/ml)

Real Time Stability Study of HBsAg-Ay



**Observation:** HBsAg-Ay high Pure is stable for >3 years at 2-8°C based on the above Real time stability study graph.

ORDER YOUR SAMPLE TODAY:



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