

### PRODUCT DESCRIPTION:

**NATtrol™ Hepatitis B Virus (NATHBV-0001, NATHBV-0002, NATHBV-0003, and NATHBV-0006)** contains purified, intact viral particles that have been chemically modified to render them non-infectious and refrigerator stable. These products are supplied in a proprietary matrix.

### INTENDED USE:

NATtrol™ Hepatitis B Virus is designed to evaluate the performance of nucleic acid tests for determination of the presence of Hepatitis B Virus nucleic acid. NATtrol™ Hepatitis B Virus enables laboratories to monitor test variation, lot-to-lot test kit performance, operator variation, and can provide assistance in identifying random or systemic error.

### MATERIALS SUPPLIED:

- 1 x 1.0 mL vial at the target concentration listed in Table 1.

### WARNINGS AND PRECAUTIONS:

- NATtrol™ inactivation was carried out on Hepatitis B Virus stocks used to formulate the product using a validated procedure.
- This product contains inactivated Hepatitis B Virus and materials of human and animal origin. Safe practices suggest that the products be considered potentially infectious and to use Universal Precautions when handling.
- Refer to CDC guidelines and local regulations for handling and disposal.
- The matrix used in the manufacture of this product is treated with 0.09% sodium azide. It was manufactured from Human Serum Albumin that has been tested and found to be non-reactive at the donor level for HIV-1/HIV-2 Antibody, HBsAg and HCV Antibody by FDA licensed donor screening test methods. All materials are also tested for HIV-1 and HCV by FDA approved Nucleic Acid Test (NAT) methods.
- Heat inactivated Fetal Bovine Serum used in the manufacture of this product meets applicable USDA requirements for abattoir sourced animals, traceability, and country of origin. The materials were collected at USDA licensed establishments or legally imported from countries recognized by the USDA as negligible or controlled for risk for Bovine Spongiform Encephalopathy (BSE) and other exotic disease agents. Donor animals were inspected ante and postmortem at the abattoir as required by the USDA.
- Do not use past the expiration date on the label.
- To avoid cross-contamination, use separate pipette tips for all materials.

### RECOMMENDED STORAGE:

- NATtrol™ Hepatitis B Virus should be stored at 2-8°C.

### INSTRUCTIONS FOR USE:

- Mix tube vigorously for at least 5 secs.
- Process according to manufacturer's instructions for sample to result assays.
- Extract nucleic acid prior to use in downstream assays that are not sample to result.

### LIMITATIONS:

- **FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.**
- Quality control materials should be used in accordance with local, state, federal, and accreditation requirements.
- This product is not intended to replace the manufacturer's controls provided with the assay.

### EXPECTED RESULTS:








- The target concentration values provided in Table 1 are tested in ZeptoMetrix in-house real-time PCR assay.
- It is the responsibility of the end user to establish their own target range and limits for the product using their laboratory's procedures.

**Table 1**

Catalog Number	Target Concentration (IU/mL) <sup>1</sup>
NATHBV-0001	400
NATHBV-0002	5,000
NATHBV-0003	50,000
NATHBV-0006	10,000

<sup>1</sup>Based on in-house real time PCR assay targeting the S gene region.

### Symbols used in the labeling of this product:

	Manufacturer		Temperature Limitation
	For Research Use Only		Expiration Date
	Catalog Number		Biological Risk
	Batch Code		