

**NATtrol™ Herpes Simplex Virus Type 1  
 Strain: MacIntyre**

**PRODUCT DESCRIPTION:**

**NATtrol™ Herpes Simplex Virus Type 1 (NATHSV1-0001, NATHSV1-0002, NATHSV1-0003, NATHSV1-0004, and NATHSV1-0005)\*** is formulated with purified, intact virus particles that have been chemically modified to render them non-infectious and refrigerator stable. Each vial contains 1.0 mL of HSV-1 NATtrol™ at target concentrations listed in Table 1. These controls are supplied in a purified protein matrix that mimics the composition of a true clinical specimen.

\*Pat.: <http://www.zeptometrix.com/patent-information/>

**INTENDED USE:**

- NATtrol™ Herpes Simplex Virus Type 1 is designed to evaluate the performance of nucleic acid tests for determination of the presence of HSV1 DNA. NATHSV1 can also be used for validation of clinical assays, development of diagnostic tests and training of laboratory personnel.
- NATHSV1 contains intact virus and should be run in a manner identical to that used for clinical specimens.

**ETIOLOGIC STATUS/BIOHAZARD TESTING:**

- NATtrol™ inactivation was carried out on the HSV1 Stock used to formulate this product. The inactivation was verified by the absence of viral growth in validated tissue culture based infectivity assays.
- Purified protein matrix used in the manufacture of this product is treated with 0.09% sodium azide. It was manufactured from materials that have been tested and found 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 bovine based source materials used in the manufacture of this product meet 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 post mortem at the abattoir as required by the USDA.

**PRECAUTIONS:**

- Although NATHSV1 contains inactivated virus, it should be handled as if potentially infectious.
- Use Universal Precautions when handling this product.
- To avoid cross-contamination, use separate pipette tips for all reagents.

**RECOMMENDED STORAGE:**

- NATtrol™ Herpes Simplex Virus Type 1 should be stored at 2-8°C.

**INSTRUCTIONS FOR USE:**

- Extract HSV1 DNA prior to use in downstream assays.

**TABLE 1:**




Catalog Number	Target Concentration (copies/mL)
NATHSV1-0001	100
NATHSV1-0002	500
NATHSV1-0003	1,000
NATHSV1-0004	10,000
NATHSV1-0005	50,000

**DO NOT USE IN HUMANS. FOR RESEARCH USE ONLY.  
 NOT FOR USE IN DIAGNOSTIC PROCEDURES.**

These products are intended for research, product development, quality assurance or manufacturing use. These products are NOT intended for use in the manufacture or processing of injectable products subject to licensure under section 351 of the Public Health Service Act or for any other product intended for administration to humans.

**This product was manufactured in a facility which has a Quality Management System that is ISO 13485 certified.**

PINATHSV1-0001  
 PINATHSV1-0002  
 PINATHSV1-0003  
 PINATHSV1-0004  
 PINATHSV1-0005  
 Revision: 09  
 Effective Date: 02/28/2019

REF	Catalog Number		Temperature Limitation
LOT	Lot Number		Expiration Date
RUO	For Research Use Only		Biological Risk

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