

**DIAGNOSTIC AUTOMATION, INC.**

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Material Safety Data Sheet

HSV 1,2 IgG ELISA TEST KIT

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Supplier: Diagnostic Automation Inc.
21250 Califa Street, Suite 102 and 116,
Woodland Hills, CA 91367 USA

Emergency Telephone number: Please contact the local hospitals.

Product Name: HSV 1,2 IgG Kit
Catalog No: 1443-11

COMPOSITION OF THE KITS COMPONENTS

1. **Microwell Strips**, Microwell coated with herpes simplex virus 1, 2 (HSV1,2) antigen, (96 wells)
2. HSV1,2 IgG **Calibrator**, 1 vials (0.15 ml)
3. HSV1,2 IgG **Negative Control**, 1 vials (0.15 ml)
4. HSV1,2 IgG **Positive Control**, 1 vials (0.15 ml)
5. HSV1,2 IgG **Enzyme Conjugate**, 1 bottle (12 ml)
6. Sample Diluent, **Chemical Buffers**, 1 bottle, (22 ml)
7. TMB Chromogenic Substrate, **TMB Substrate**, 1 bottle (12 ml)
8. **Stop Solution**, 2N HCl, 1 bottle (12 ml)

9. **Wash Concentrate 20X**, Detergent Concentrate, 1 bottle (50 ml)
10. Package **Insert**, paper, 1 piece.

HAZARDS IDENTIFICATION

Potential Biohazard:

The Calibrator and Controls are formulated with a buffer base, animal serum, and human serum. The human serums are tested by a United States Food and Drug Administration (USFDA) licensed method and found to be non-reactive for HIV-1, HIV-2, Hepatitis B surface antigen and HCV. Because no test method can offer absolute assurance that these agents are absent, reagents should be handled at the Biosafety Level 2, as recommended for any potentially infectious human blood product, in the United States Center for Disease Control (USCDC) and National Institute of Health (USNIH) manual "Biosafety in Microbiological Laboratories", 1988.

All bovine products and goat sera have been derived from animals of US origin and processed in USDA licensed facilities.

Chemical Hazard:

The TMB Chromogenic Substrate containing TMB, is formulated with DMSO, an irritant and mucous membranes. In case of contact with any of these reagents, wash thoroughly with water. TMB is a suspected carcinogen.

Stop Solution is an acidic and corrosive agent. Avoid contact with skin.

FIRST AID

1. **Skin Contact:** Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.
2. **Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
3. **Inhalation:** Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.
4. **Ingestion:** Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

MEASURES IN CASE OF FIRE

1. **Suitable Extinguishing Media:** Chemical or water fire extinguisher.
2. **Extinguishing Media Not to be Used:** None known.
3. **Special Fire Fighting Procedures:** None Known.
4. **Unusual Fire and Explosion Hazards:** N/A

5. **NFPA Rating:** Health: 2, Flammability: 0, Reactivity: 1

MEASURES IN CASE OF ACCIDENTAL SPILL

1. **Body Precautions:** Wear rubber gloves, impermeable shoe covers and long laboratory coat.
2. **Environmental Precautions:** Contain the spill to the smallest area possible.
3. **Cleaning Measures:** Take care not to contaminate body. Absorb the material with disposable towels. Soak area with a 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

MANIPULATION AND STORAGE

1. **Manipulation:** Wear suitable personal protective equipment. Take care not to splash spill or splatter reagents. Do not eat, drink, smoke or apply cosmetics in laboratory areas. Do not pipette samples or reagents by mouth.
2. **Storage:** Store the test kits in 2 - 8⁰ C refrigerators designated and labeled to contain human blood products.

EXPOSURE CONTROLS/PERSONAL PROTECTION

1. **Body Protection:** Wear long laboratory coat.
2. **Respiratory protection:** In case of fire, wear self-contained breathing apparatus.
3. **Hand Protection:** Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.
4. **Eye Protection:** Wear safety glasses or goggles when a splash hazard exists.

PHYSICAL AND CHEMICAL PROPERTIES

1. **Physical state (at 20°C):** Microtiter plate is in solid form. All other reagents are in liquid form.
2. **Odor:** Odorless
3. **pH value:** All reagents 6.8 ~ 8.0
4. **Melting point/freezing Point:** Not determined
5. **Boiling point:** Not determined
6. **Evaporation rate:** Not determined
7. **Flammability (solid, gas):** Not flammable

8. **Upper/lower flammability or explosive limits:** Not applicable
9. **Vapor pressure:** Not determined
10. **Vapor density:** Not determined
11. **Relative density:** Not determined
12. **Solubility:** Water soluble
13. **Auto-ignition temperature:** Not applicable
14. **Decomposition temperature:** Not determined
15. **Viscosity:** Not determined
16. **Explosive properties:** None
17. **Oxidizing properties:** Not determined

SRABILITY AND REACTIVITY

1. **Stability:** Stable under recommended storage conditions.
2. **Reactivity:** No known reactivity hazards associated with product.
3. **Possibility of hazardous reactions:** No hazardous polymerization
4. **Conditions to avoid:** Excessive heat and light
5. **Incompatible materials:** Acids

TOXICOLOGICAL INFORMATION

1. **Acute toxicity:** Not determined
2. **Skin corrosion/irritation:** Stop Solution is an acidic and corrosive agent, and may cause skin irritation with direct contact.
3. **Serious eye damage/irritation:** Not determined
4. **Respiratory or skin sensitization:** Not determined
5. **Germ cell mutagenicity:** Not determined
6. **Carcinogenicity:** None known
7. **Reproductive toxicity:** Not determined

8. **STOT-single exposure:** Not determined
9. **STOT-repeated exposure:** Not determined
10. **Aspiration hazard:** Not determined

ECOLOGICAL EFFECTS

None known.

DISPOSAL REQUIREMENTS

1. **Disposal of reagents:** Dispose according to current regional and national regulations.
2. **Contaminated Containers:** Dispose of following current regional and national regulations.

TRANSPORTATION

1. **UN number:** Not available
2. **UN proper shipping name:** Not available
3. **Transport hazard class(es):** Not available
4. **Packing group:** Not available
5. **Environmental hazards:**
Overland transport (ADR/RID): None
Water transport (ADN/IMDG): None
Air transport (ICAO/IATA): None
6. **Special precautions for user:** None

REGULATION INFORMATION

1. **Classification:** This preparation is classified and labeled in accordance with applicable national and international regulations.
2. **Symbols of danger:** N/A
3. **"R" phrases indicating specific risks:** Irritant R36/37/38, Irritating to the eyes, respiratory system and skin.
4. **"S" phrases indicating caution:** S26, In case of contact with any reagents rinse with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention. S36, Wear suitable protective clothing.

OTHER INFORMATION

Recommended Use: For research or clinical investigational use only.
Not for use on or in human and animals.

Information contained in this MSDS relies upon our best knowledge of the product upon issue of this document to describe the use, storage, transport and disposal under safe and secure measures. Such information is not a guarantee of the characteristics and specific quality of the product. This MSDS concerns the stated preparation and cannot apply to the product if used with other materials or in a process other than those specifically stated.

Date Adopted	2017-02-06
REF 1443-11	HSV 1,2 IgG ELISA TEST KIT



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