



MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Catalog #: 65-9525-0 DPP HIV-Syphilis Assay (20 test kit),
65-9541-0 DPP HIV-Syphilis Unitized Kit - Mexico

Product Name: DPP® HIV-Syphilis Assay

Synonyms: A qualitative screening test kit for the detection of antibodies to HIV 1/2 and/or syphilis treponema in human whole blood, serum, or plasma.

General Use: The Chembio DPP HIV-Syphilis Assay is a single-use immunochromatographic, *in vitro* screening test for the detection of antibodies to Human Immunodeficiency Virus Types 1 and 2 (HIV 1/2) and syphilis *Treponema pallidum* in fingerstick whole blood, venous whole blood, serum, or plasma samples. The Chembio DPP HIV-Syphilis Assay is intended for use as a point-of-care test to aid in the diagnosis of infection with HIV and/or syphilis. This test is suitable for use in multi-test algorithms designed for the statistical validation of rapid HIV and/or syphilis test results. When multiple rapid HIV or syphilis tests are available, this test should be used in appropriate multi-test algorithms.

Manufacturer: Chembio Diagnostic Systems, Inc.
3661 Horseblock Road, Medford NY 11763
Phone: 631-924-1135
www.chembio.com

Emergency Phone: 1-800-327-3635
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SECTION 2. HAZARDS IDENTIFICATION

The preparation is classified as hazardous under E.C.Directive 1999/45/EC.
The preparation is classified as Acute Toxicity, Oral Category 4 under E.C Directive 1272/2008.

| Preparation/Substance: Components contributing to the Hazard: Sodium Azide | | | | | |
|---|------------|-------------------------|-------------|--------------------------|--|
| % Concentration | CAS | E.C Directive 1272/2008 | | E.C.Directive 1999/45/EC | |
| | | GHS | Signal Word | EC Hazard Symbol | R&S Phrases |
| 0.2% | 26628-22-8 | | Warning | Xn | R25 R32 R52 S23 S24/25 S29/35 |

Hazard Statements: H302: May be harmful if swallowed
H315: May cause skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H332: May be harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H412 : Harmful to aquatic life with long lasting effects
EUH 208: Contains ‘gentamicin sulfate’. May produce an allergic reaction
EUH032: Contact with acids liberates very toxic gas



Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P262: Do not get in eyes, on skin, or on clothing
 P273: Avoid release to the environment
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P332, P313: If skin irritation occurs: Get medical attention
 P342, P311: If experiencing respiratory symptoms: call a poison center or doctor/physician
 P391: Collect spillage

This test kit should be used only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety.


SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Test Device: A membrane strip containing antigens reactive to HIV-1 and HIV-2 and a syphilis antigen with a colloidal gold detection conjugate, Protein A control line and a sample delivery membrane strip housed in a plastic cassette. NOTE: this kit does not contain any live or active levels of HIV-1, HIV-2 or syphilis.

DPP Running Buffer: 6mL of dilute buffer solution in a sealed vial.

DPP SampleTainer™: 1mL dilute buffer solution in a sealed vial.

| Chemical Ingredient | Chemical Information |
|-------------------------|--|
| Gold Conjugate Pad | <p>Contains: Tween 20 (9005-64-5), Protein A (91932-65-9), Sodium Phosphate Monobasic (7558-80-7), Sodium Phosphate Dibasic (7558-79-4), Bovine Serum Albumin (9048-46-8), Sodium Azide (26628-22-8), Triton X (9002-93-1), Hydrogen Tetrachloroaurate(III) Trihydrate (16961-25-4)</p> <p>Gold Pad Concentration: Contains 0.01-0.1% concentration or less of the chemicals listed above.</p> <p>The mixture may cause skin and/or eye irritation upon contact in highly sensitive individuals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.</p> |
| Nitrocellulose Membrane | <p>Contains: Two HIV-1 synthetic peptides (Biotinylated), one HIV-2 synthetic peptide (Biotinylated), a syphilis antigen and Protein A (91932-65-9)</p> <p>Nitrocellulose Concentration: Contains 0.01-0.1% concentration or less of the chemicals listed above.</p> <p>The mixture may cause skin and/or eye irritation upon contact in highly sensitive individuals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.</p> |
| Sample Pad | <p>Contains: NP-40 Tergitol (127087-87-0), Sodium Azide (26628-22-8)</p> <p>Sample Pad Concentration: Contains 0.01-0.1% concentration or less of the chemicals listed above.</p> <p>The mixture may cause skin and/or eye irritation upon contact in highly sensitive individuals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.</p> |

| Chemical Ingredient | Chemical Information |
|----------------------------|---|
| Sodium Phosphate Dibasic | <p>CAS# 7558-79-4</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritaton. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.1-5% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Sodium Phosphate Monobasic | <p>CAS# 7558-80-7</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritaton. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.1-5% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Sodium Chloride | <p>CAS# 7647-14-5</p> <p>LD50 Oral: 3000 mg/kg (rat) LC50 Inhalation: 42000 mg/m³</p> <p>May cause eye and skin irritation. May cause damage to organs, skin, eyes, stomach. When ingested in large quantities may cause gastrointestinal upset. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.1-5% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Sodium Azide | <p>CAS# 26628-22-8</p> <p>LD50 Oral: 27 mg/kg (rat) LD50 Skin: 20 mg/kg (rabbit)</p> <p> Very toxic by inhalation, in contact with skin and ingestion. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with metals. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.2% sodium azide. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Sodium Hydroxide | <p>CAS# 1310-73-2</p> <p>May cause eye burns, blindness, chemical conjunctivitis, corneal damage. May cause skin burns, ulcers of the skin. May irritate mucous membrane if swallowed. Avoid contact. Avoid inhalation, ingestion. Avoid breathing in vapor or mist, keep container closed. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.01-0.1% concentration or less of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Tween 20 | <p>CAS# 9005-64-5</p> <p>LD50 Oral: 36,700mg/kg (rat)</p> <p>May cause respiratory irritation. May cause skin irritation. May cause eye irritaton. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> |

| Chemical Ingredient | Chemical Information |
|----------------------|--|
| | <p>Concentration: This product contains 0.01-0.1% concentration or less of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Animal Serum | <p>CAS# N/A</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 5-15% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Avidin | <p>CSA# 1405-69-2</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.01-0.1% concentration or less of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Urea | <p>CAS# 57-13-6</p> <p>LD50 Oral: 8471 mg/kg (rat)</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 5-15% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Gentamicin Sulfate | <p>CAS# 1405-41-0</p> <p>LD50 Oral: >5000 mg/kg (rat)</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.1-5% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |
| Streptomycin Sulfate | <p>CAS# 3810-74-0</p> <p>LD50 Oral: 430 mg/kg (rat)</p> <p>Caution, may be harmful if inhaled. May cause respiratory tract infection. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. The material and its container should be disposed of in a safe way and in accordance with Local, State and Federal Regulations.</p> <p>Concentration: This product contains 0.1-5% of this chemical. No known or anticipated adverse health hazards are likely for the small amount of chemical mixture provided in the product. Utilize Good Laboratory Practices.</p> |

SECTION 4.

FIRST AID MEASURES

- Inhalation: If inhaled, move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and immediately seek medical attention.
- Ingestion: If the patient is conscious, wash out mouth with water, give one or two glasses of water or milk to dilute immediately. Get immediate medical attention.
- Skin Contact: Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use.
- Eye Contact: Check for, and if possible, remove contact lenses. Rinse immediately with generous amounts of water, adequately flushing by separating the eyelids with fingers, for at least 15 minutes. If exposure symptoms develop, seek medical attention.

SECTION 5.

FIRE FIGHTING MEASURES

- Flash Point: No method used
- Flammable Limits: LEL: Not Applicable, UEL: Not Applicable
- Special Fire Fighting Procedures: It is always best to wear a self-contained breathing apparatus. Use whatever is required in the surrounding area for extinguishing fires.

SECTION 6.

ACCIDENTAL RELEASE MEASURES

- Spill/Leak: Avoid creating dust or direct contact with skin, eyes, mucous membranes and clothing by wearing appropriate lab Personnel Protective Equipment (PPE), including gloves, lab coat or apron and eye/face protection (goggles). In the event of a hazardous material spill, contain the spill if it is safe to do so and immediately move to a safe area. Isolate the hazard area and ventilate if appropriate. Ensure that appropriate spill cleanup materials and PPE are available. Wear chemical resistant rubber gloves and a laboratory apron. Exercise appropriate precaution to avoid direct contact with skin or eyes. Take up with absorbent material, Wipe up area with a damp paper towel and place in a biohazard container. Disinfect spill area with a 10% bleach solution. Dispose as biohazardous waste

SECTION 7.

HANDLING AND STORAGE

- Handling: The individual kit components within the test kit should be handled only by qualified personnel. Utilize Good Laboratory Practices and safety guidelines for handling chemicals and other hazards. Wear appropriate Personnel Protective Equipment (PPE), including gloves, lab coat or equivalent and eye/face protection. Avoid splashing, spills and the generation of aerosols.
- Storage: Store at 2-30°C. No special storage precautions required.
NOTE: the handling and storing of the packaged kit should not pose any threat to the shipper. If the product integrity is in question due to excessive damage, utilize proper safety procedures and handle using appropriate PPE.

SECTION 8.

EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ventilation: Use general room ventilation.
- Respiratory Equipment: None required.
- Protective Gloves: Wear standard laboratory protective gloves. Replace torn or punctured gloves promptly.
- Eye Protection: Wear standard laboratory safety glasses. Contact lenses should not be worn in the laboratory.

Skin and Body: Wear appropriate body protection, including but not limited to closed toe shoes, laboratory coat or equivalent.

Comments: Standard biohazard precautions should be employed when using serum, plasma or blood samples.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

DPP Running Buffer & DPP SampleTainer

Appearance: Off-white solution
 Odor: Slight odor
 pH: ~9
 Specific gravity: ~1
 Water solubility: Miscible
 Boiling point: ~100°C

See Section 3 for additional information.

SECTION 10. STABILITY AND REACTIVITY

Stability: The product is known to be stable under normal use and storage conditions

Conditions to avoid: Avoid excessive heat, maintain ambient temperatures.
 Running Buffer and Sample Buffer: Avoid strong acids, bases, oxidizers and organic compounds. Avoid water and solid metals (aluminum, mercury, copper, lead, zinc) as contact may generate toxic gas.

Hazardous Decomposition Products: May emit toxic fumes under normal fire conditions. Sodium azide can react with heavy metals to form explosive azides.

Incompatible Materials: Sodium azide has been known to react with lead or copper plumbing. Do not dispose of Sodium Azide or other chemicals down the drain.


SECTION 11. TOXICOLOGICAL INFORMATION

Acute: This product is not known to have any specific health or toxicological effects if used as offered for its intended purpose.

Chronic: None known if used as offered for its intended purpose.

Comments: Individual chemical toxicological information has been provided in Section 3.

SECTION 12. ECOLOGICAL INFORMATION

| Component | Ecological Information |
|--|---|
| Sodium Azide  | LD50 Oral: 27 mg/kg (rat) LD50 Skin: 20 mg/kg (rabbit) |

SECTION 13. DISPOSAL CONSIDERATION

Method: Disposal of hazardous wastes, product or packaging must be conducted in accordance with all applicable Local, State and Federal Regulations. Processing, use or contamination of the kit components may change waste management requirements and options. Contact the authority having jurisdiction for your area for specific disposal requirements.



SECTION 14. TRANSPORTATION INFORMATION

This product must be shipped in accordance with all applicable Local, State and Federal Regulations. As offered for shipping (based on single kit only):

DOT: Not a dangerous good. IMDG: Not a dangerous good. IATA: Not a dangerous good.

Considerations: Processing, use or contamination of the kit components may change shipping requirements and options.

SECTION 15. REGULATORY INFORMATION

| | |
|---|---------------------------------------|
| SARA 311/312: Hazard Categories for Reporting | Not Hazardous |
| Canadian WHMIS Classification | Not Applicable |
| EU Classification (90/492/EE) | Not Applicable |
| EU Risk and Safety Phrases | None |
| California Proposition 65 | Streptomycin Sulfate ($\geq 0.1\%$) |
| Minnesota Pollution Control Agency: List of Acute Hazardous Waste | Sodium Azide ($\geq 0.1\%$) |

SECTION 16. OTHER INFORMATION

The information contained herein is accurate to the best knowledge of Chembio Diagnostic Systems, Inc. Chembio makes no warranty of any kind, expressed or implied, concerning the safe use of this material in the process or in combination with any other substances. Since the use of this information and the conditions of use of the product are not within the control of Chembio Diagnostic Systems, it is the users' obligation to assure safe use of the product.

Contact Info:

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