MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION
Catalog #: 65-9150-0
Product Name: DPP® VetTB Assay for Cervids (20 test kit)
Synonyms: A qualitative screening test for the detection of antibodies to *Mycobacterium tuberculosis* and *Mycobacterium bovis* in Elk / Red Deer, Fallow Deer, and White-tailed Deer serum, plasma or whole blood.

General Use: The DPP VetTB Assay is a single use immuno-chromatographic rapid test for the detection of antibodies to *Mycobacterium tuberculosis* and *Mycobacterium bovis* in Elk / Red Deer (*Cervus elaphus*), Fallow Deer (*Dama dama*), and White-tailed Deer (*Odocoileus virginianus*) cervid serum, plasma or whole blood. The test is used as an aid in the diagnosis of active tuberculosis (TB) in conjunction with other diagnostic methods.

Manufacturer: Chembio Diagnostic Systems, Inc.
3661 Horseblock Road, Medford NY 11763
Phone: 631-924-1135
www.chembio.com
Emergency Phone: 1-800-327-3635

SECTION 2. HAZARDS IDENTIFICATION
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.

Hazard Statements:
- H303: May be harmful if swallowed
- H315: May cause skin irritation
- H333: May be harmful if inhaled

Precautionary Statements:
- P626: Do not get in eyes, on skin, or on clothing
- P332, P313: If skin irritation occurs: Get medical attention
- P273: Avoid release to the environment

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS
Test Device: A membrane strip containing two recombinant antigens, an *M. tuberculosis* and an *M. bovis* antigen, which are separately immobilized on the membrane solid phase. It also utilizes recombinant Protein A/G conjugated to colloidal gold particles for antibody detection.

**NOTE:** This kit does not contain any live or active levels of TB.

Running Buffer: 6 mL dilute buffer solution in a dropper bottle sufficient for 20 test devices.
<table>
<thead>
<tr>
<th>Chemical Ingredient</th>
<th>Chemical Information</th>
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| Gold Conjugate Pad          | **Contains**: Tween 20 (9005-64-5), Recombinant Protein A/G (N/A), 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-100” (9002-93-1), Gold Tetrahydrate (16961-25-4)  
**Gold Pad Concentration**: Contains 0.01-0.1% concentration or less of the chemicals listed above.  
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. |
| Nitrocellulose Membrane     | **Contains**: Two recombinant antigens, one *M. tuberculosis* antigen and one *M. bovis* antigen, and an anti-Protein A antibody (N/A).  
**Nitrocellulose Concentration**: Contains 0.01-0.1% concentration or less of the chemicals listed above.  
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. |
| Running Buffer              | **Contains**: NP-40 Tergitol (127087-87-0), sodium phosphate dibasic (7558-79-4), sodium phosphate monobasic (7558-80-7), sodium chloride (7647-14-5), sodium azide (26628-22-8), chicken serum (N/A), urea (57-13-6), gentamicin sulfate (1405-41-0), streptomycin sulfate (3810-74-0), Tween 20 (9005-64-5), sodium hydroxide (207-838-8).  
Appearance: Off-white solution  
Odor: Slight odor  
pH: ~9  
Specific gravity: ~1  
Water solubility: Miscible  
Boiling point: ~100°C  
**Running Buffer Concentration**: Contains 0.01-0.1% concentration or less of the following chemicals: NP-40 Tergitol, sodium phosphate monobasic, sodium azide, Tween 20, sodium hydroxide.  
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 in the buffer. Utilize Good Laboratory Practices. |
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/PERSOAL 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

Available Physical/Chemical Properaties and characteristics are listed in Section 3.

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: 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 toxological effects if used as offered for its intended purpose.

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

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

SECTION 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecological Information</th>
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<tbody>
<tr>
<td>Sodium Azide</td>
<td>LD50 Oral: 27 mg/kg (rat)</td>
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<td>LD50 Skin: 20 mg/kg (rabbit)</td>
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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
<table>
<thead>
<tr>
<th>SARA 311/312: Hazard Categories for Reporting</th>
<th>Not Hazardous</th>
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<tbody>
<tr>
<td>Canadian WHMIS Classification</td>
<td>Not Applicable</td>
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<tr>
<td>EU Classification (90/492/EE)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>EU Risk and Safety Phrases</td>
<td>None</td>
</tr>
<tr>
<td>California Proposition 65</td>
<td>None</td>
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<tr>
<td>Minnesota Pollution Control Agency: List of Acute Hazardous Waste</td>
<td>Sodium Azide (&lt;0.1%)</td>
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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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