



MATERIAL SAFETY DATA SHEET

SECTION 1.

IDENTIFICATION

Catalog #: 65-9110-0 DPP VetTB Assay for Elephants (2 test kit)
65-9111-0 DPP VetTB Assay for Elephants (5 test kit)
65-9112-0 DPP VetTB Assay for Elephants (20 test kit)

Product Name: DPP® VetTB Assay for Elephants

Synonyms: A qualitative screening test for the detection of antibodies to *Mycobacterium tuberculosis* and *Mycobacterium bovis* in elephant 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 serum, plasma or whole blood from African elephants (*Loxodonta africana*) and Asian elephants (*Elephas maximus*). 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.

Chemical Ingredient	Chemical Information
Gold Conjugate Pad	<p>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)</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 recombinant antigens, one <i>M. tuberculosis</i> antigen and one <i>M. bovis</i> antigen, and an anti-Protein A antibody (N/A).</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>
Running Buffer	<p>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).</p> <p>Appearance: Off-white solution</p> <p>Odor: Slight odor</p> <p>pH: ~9</p> <p>Specific gravity: ~1</p> <p>Water solubility: Miscible</p> <p>Boiling point: ~100°C</p> <p>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.</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 in the buffer. 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

Available Physical/Chemical Properties 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 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	None
Minnesota Pollution Control Agency: List of Acute Hazardous Waste	Sodium Azide (<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:

Chembio Diagnostic Systems
3661 Horseblock Road
Medford, New York 11763 USA
Telephone: 631 924-1135