

## MATERIAL SAFETY DATA SHEET

SECTION 1. Catalog #: Product Name:	<b>IDENTIFICATION</b> 65-9500-0 (20 test kit) & 65-9506-0 (20 test kit) DPP <sup>®</sup> HIV 1/2 Assay
Synonyms:	A qualitative screening test kit for the detection of antibodies to HIV 1/2 in human serum, plasma, whole blood and oral fluid.
General Use:	The Chembio DPP HIV 1/2 Assay is a single-use, immunochromatographic, <i>in vitro</i> test for the detection of antibodies to Human Immunodeficiency Virus Types 1 and 2 (HIV 1/2) in oral fluid, fingerstick whole blood, venous whole blood, serum, or plasma samples. The Chembio DPP HIV 1/2 Assay is intended for use as a point-of-care test to aid in the diagnosis of infection with HIV-1 and HIV-2. This test is suitable for use in multi-test algorithms designed for the statistical validation of rapid HIV test results. When multiple rapid HIV 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:	1-631-924-1135

## SECTION 2. HAZARDS IDENTIFICATION

The preparation is classified as hazardous under E.C.Directive 1999/45/EC. The preparation is classified as Acute Toxicitiy, 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
					R25
0.2%	26628-22-8		Warning	Xn	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	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
Statements:	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 us. The absence of a specific warning should not be interpreted as an indication of safety.

SECTION 3.	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
Test Device:	A membrane strip containing antigens reactive to HIV-1 and HIV-2 with a colloidal gold detection conjugate, Protein A control line and a sample delivery membrane strip housed in a plastic cassette. NOTE: this kit <u>does not</u> contain any live or active levels of HIV-1 or HIV-2.
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	Contains: Tween 20 (9005-64-5), Protein A (91932-65-9), Sodium Phosphate Monobasic			
Pad	(7558-80-7), Sodium Phosphate Dibasic (7558-79-4), Bovine Serum Albumin (9048-46			
	Sodium Azide (26628-22-8), Triton X (9002-93-1), Hydrogen Tetrachloroaurate(III) Trihydrate			
	(16961-25-4)			
	<b>Gold Pad Concentration:</b> Contains 0.01-0.1% concentration or less of the chemicals list 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	Contains: Two HIV-1 synthetic peptides (Biotinylated), one HIV-2 synthetic peptide			
Membrane	(Biotinylated), Protein A (91932-65-9)			
	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			
0 1 0 1	small amount of chemical mixture provided on this strip. Utilize Good Laboratory Practices.			
Sample Pad	Contains: NP-40 Tergitol (127087-87-0), Sodium Azide (26628-22-8)			
	Sample 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.			



Chemical Ingredient	Chemical Information		
Sodium	CAS# 7558-79-4		
Phosphate Dibasic	Caution, may be harmful if inhaled. May cause respitory 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.		
	<b>Concentration:</b> 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.		
Sodium	CAS# 7558-80-7		
Phosphate Monobasic	Caution, may be harmful if inhaled. May cause respitory 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. <b>Concentration:</b> 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 maduat. Utiling Coad Laboratory Prostings		
Sodium	product. Utilize Good Laboratory Practices. CAS# 7647-14-5		
Chloride	LD50 Oral: 3000 mg/kg (rat) 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.		
	<b>Concentration:</b> 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.		
Sodium Azide	CAS# 26628-22-8		
	LD50 Oral: 27 mg/kg (rat) LD50 Skin: 20 mg/kg (rabbit)		
	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.		
	<b>Concentration</b> : 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.		
Sodium	CAS# 1310-73-2		
Hydroxide	May cause eye burns, blindless, 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.		
	<b>Concentration:</b> 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.		



Chemical Ingredient	Chemical Information
Tween 20	CAS# 9005-64-5
	LD50 Oral: 36,700mg/kg (rat)
	May cause respitory 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.
	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.
Animal Serum	CAS# N/A
	Caution, may be harmful if inhaled. May cause respitory 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.
	<b>Concentration:</b> 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.
Avidin	CSA# 1405-69-2
	Caution, may be harmful if inhaled. May cause respitory 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.
	<b>Concentration:</b> 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.
Urea	CAS# 57-13-6
	LD50 Oral: 8471 mg/kg (rat)
	Caution, may be harmful if inhaled. May cause respitory 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.
	<b>Concentration:</b> 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.
Gentamicin	CAS# 1405-41-0
Sulfate	LD50 Oral: >5000 mg/kg (rat)
	Caution, may be harmful if inhaled. May cause respitory 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
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	<b>Concentration:</b> This product contains 0.1-5% of this chemical. No known or anticipated
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## 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: 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 FightingIt is always best to wear a self-contained breathing apparatus. Use whatever is required in<br/>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.



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SECTION 8. Ventilation:	EXPOSURE CONTROLS/PERSONAL PROTECTION Use general room ventilation.	
Respiratory Equipmer	nt: None required.	
Protective Gloves: promptly.	Wear standard laboratory chemical rubber or latex gloves. Replace torn or punctured gloves	
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 PROPERTIESDPP Running Buffer & DPP SampletainerAppearance:Off-white solutionOdor:Slight odorpH:~9Specific gravity:~1Water solubility:MiscibleBoiling point:~100°CSee Section 3 for additional information.	
<b>SECTION 10.</b> Stability:	<b>STABILITY AND REACTIVITY</b> 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 notmal fire conditions. Sodium azide can react with heavy metals to form explosive azides.	
Incompatible Material	ls: Sodium azide has been known to react with lead or copper plumbing. Do not dispose of Sodium Azide or other chemical down the drain.	
SECTION 11. Acute:	<b>TOXICOLOGICAL INFORMATION</b> 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	
Component	Ecological Information	
	LD50 Oral: 27 mg/kg (rat)	



### **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. <u>IMDG</u>:Not a dangerous good. IATA: Not a dangerous good.

Processing, use or contamination of the kit components may change shipping requirements Considerations: 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 Hazard and Precautionary Statements	See Section 2
EU Risk and Safety Phrases	See Section 2
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 accuracte 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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