



# WHOLE BLOOD Test Procedure

For *IN VITRO* diagnostic use

CLIA Complexity WAIVED for oral fluid, fingerstick whole blood, and venous whole blood.

- Before performing testing, all operators MUST read and become familiar with Universal Precautions for prevention of transmission of Human Immunodeficiency Virus, Hepatitis B Virus, and other blood borne pathogens in Health-Care Settings.
- These instructions are only a Reference Guide for use in CLIA waived settings. Read the complete procedure, including the QC procedure, before performing the test.
- **Laboratories with a Certificate of Waiver must follow the manufacturer's instructions for performing the test. Any modification by the user(s) to the manufacturer's test procedures will result in the test no longer meeting the requirements for waived classification.**

### External Quality Control:

A Chembio DPP® HIV 1/2 Rapid Test Control Pack is available separately for use with the Chembio DPP® HIV 1/2 Assay. The HIV Controls are used to verify the operator's ability to properly perform the test and interpret the results. Run the controls as described in the Test Procedure section for a whole blood sample and follow the Interpretation of Results section below. We recommend running controls: • with each new operator • with each new device lot • with each new shipment of devices • if improper device storage is suspected and • at periodic intervals. It is the responsibility of each facility using the Chembio DPP® HIV 1/2 Assay to establish an adequate quality assurance program to ensure the performance of the device in their environment and conditions of use.

## BEFORE YOU BEGIN

- Gather the materials you will need.
- Cover your work space with a clean, disposable absorbent workplace cover.
- Put on disposable gloves.
- Let the test reach room temperature (between 18-30°C or 64-86°F) before opening the pouch.
- Remove the DPP® HIV 1/2 test device from pouch and become familiar with it.

### The DPP® HIV 1/2 Assay kit contains:

- 20 DPP® HIV 1/2 Individually Pouched Test Devices
- 20 Disposable Sample Loops (10µL)
- 20 Oral Fluid Swabs
- 20 DPP® SampleTainer® Bottles (1mL, Black and White Cap)
- 1 DPP® Running Buffer Bottle (6mL, Green Cap)

### Materials required but not provided:

- Clock, watch or other timing device
- Sterile gauze
- Disposable gloves
- Antiseptic wipes
- Biohazard disposal containers
- Sterile Safety Lancet (for fingerstick)
- Collection devices for venous blood

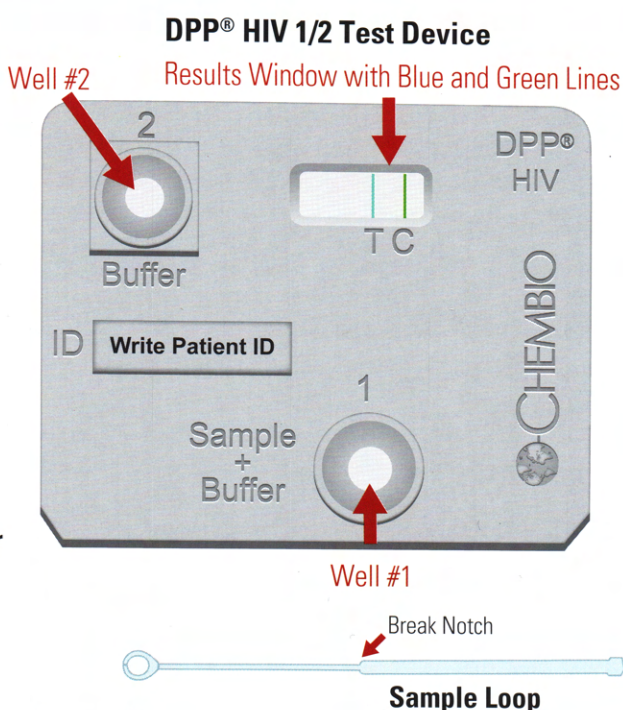


DPP® Running Buffer Bottle



DPP® SampleTainer® Bottle

- Before collecting the sample, write the sample ID on the DPP® SampleTainer® bottle (with the black and white cap).
- Unscrew the WHITE CAP keeping the BLACK CAP in place.



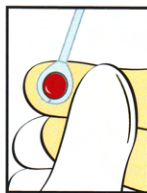
DPP® HIV 1/2 Test Device

Results Window with Blue and Green Lines

## 1 Obtain Sample **The Sample Loop MUST be filled with blood**

### Finger Stick Blood

- Perform a finger stick per your normal laboratory practices.
- Wipe away first drop of blood. Allow a second drop to form.
- Touch Sample Loop to second drop, allowing loop to fill with blood.



### OR If Using Venous Whole Blood

- Obtain an EDTA venous blood sample per your normal laboratory practices.
- Gently mix sample and remove stopper from the blood tube.
- Dip Sample Loop into tube of blood, allowing loop to fill with blood.



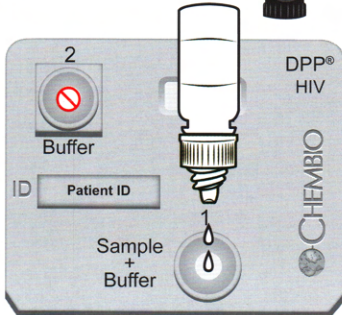
## 2 Add Sample to DPP® SampleTainer® Bottle



- Insert blood-filled Sample Loop into DPP® SampleTainer® bottle with loop resting on bottom of bottle.
- Snap shaft at break notch to release loop into bottle as shown.
- Replace black/white cap assembly onto bottle and shake bottle for at least 10 seconds.

## 3 Add Sample to Test Device Well #1

- Unscrew the **BLACK CAP** keeping the **WHITE CAP** with the dropper tip on the DPP® SampleTainer® bottle.
- Invert the DPP® SampleTainer® bottle and hold it VERTICALLY (not at an angle) over SAMPLE+BUFFER Well #1.
- Slowly add 2 FULL drops of sample into SAMPLE+BUFFER Well #1



**Important: Adding less than 2 drops may produce invalid results.**

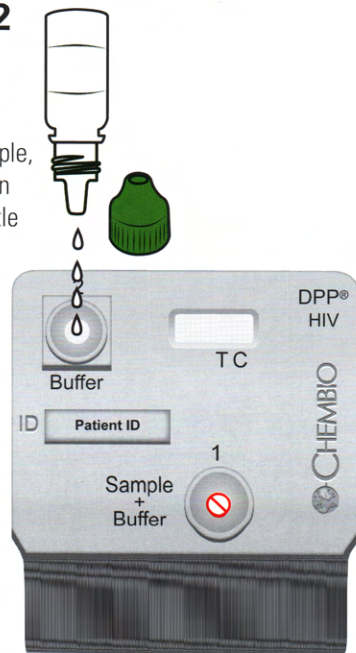
**Wait 5 minutes.** After 5 minutes, the blue and green lines should disappear from the Results Window. If they do not disappear, discard test device and repeat the procedure with a new DPP® test device.

## 4 Add Running Buffer to Test Device Well #2

- **Five minutes** after adding the sample, add 4 drops of Running Buffer (green cap) into BUFFER Well #2. Hold bottle VERTICALLY.

**Important: Adding less than 4 drops or more than 8 drops of Running Buffer may produce invalid results.**

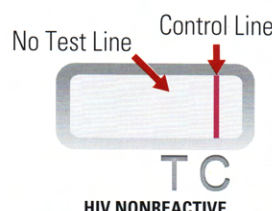
- Read the test result between 10 and 25 minutes after adding Running Buffer to BUFFER Well #2. Do not read results after 25



minutes.

## Interpretation of Results: FINGER STICK or VENOUS WHOLE BLOOD

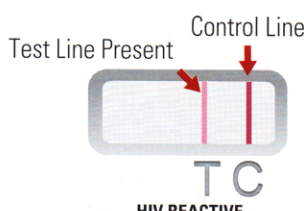
**ADEQUATE LIGHTING REQUIRED**



### NONREACTIVE RESULT

One pink/purple line in the CONTROL (C) area, with no line in the TEST area, is a Nonreactive result. A nonreactive result **between 10 and 25 minutes** means that HIV antibodies were not detected.

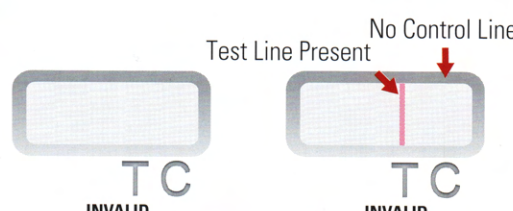
The test result is NEGATIVE for HIV antibodies. However, **this does not exclude possible infection with HIV.**



### REACTIVE RESULT

A pink/purple line in the CONTROL (C) area, with a line in the TEST area, is a Reactive result. If ANY VISIBLE LINE appears in the TEST area and in the CONTROL area, no matter how faint, the result is Reactive. A reactive result **between 10 and 25 minutes** means that HIV antibodies were detected.

A REACTIVE test result means that HIV antibodies were detected in the specimen. The test result is Preliminary POSITIVE for HIV antibodies.



### INVALID RESULTS

If no control line appears, results are invalid whether or not a test line is present.

An INVALID test result means there was a problem running the test. The problem could be due to the specimen, the test device or the procedure.

An INVALID test result cannot be interpreted. An INVALID test should be repeated with a new device.

Contact Chembio Diagnostic Systems if you are unable to get a valid test result upon repeat testing.