



RAPID  
TESTS  
FOR  
**EARLIER  
TREATMENT™**

**May 12, 2016**

NASDAQ: CEMI

# Forward-Looking Statement

Statements contained herein that are not historical facts are forward-looking statements within the meaning of the Securities Act of 1933, as amended. Those statements include statements regarding the intent, belief or current expectations of Chembio and its management. Such statements reflect management's current views, are based on certain assumptions, and involve risks and uncertainties. Actual results, events, or performance may differ materially from the above forward-looking statements due to a number of important factors, and will be dependent upon a variety of factors, including, but not limited to, Chembio's ability to develop, manufacture, market and finance new products and the demand for Chembio's products. Chembio undertakes no obligation to publicly update these forward-looking statements to reflect events or circumstances that occur after the date hereof or to reflect any change in Chembio's expectations with regard to these forward-looking statements or the occurrence of unanticipated events. Other factors that may impact Chembio's success are more fully disclosed in Chembio's most recent public filings with the U.S. Securities and Exchange Commission.

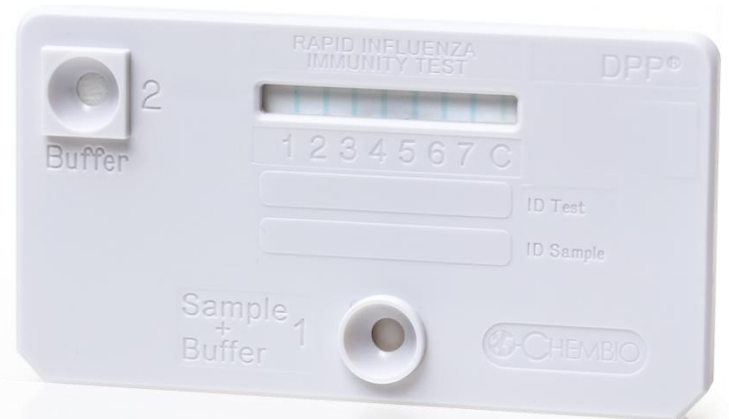
# Investment Highlights

- **A global leader in point-of-care (POC) infectious disease**
  - Sales in 40+ countries, including United States
- **Revenue growth**
  - 8% CAGR over last five years (2010-2015)
- **Groundbreaking patented DPP<sup>®</sup> technology platform**
  - Superior sensitivity and specificity vs lateral flow technology
  - Multiple tests from a single oral fluid or blood sample (multiplexing)
- **Robust pipeline of new DPP<sup>®</sup> POC assays in development**
  - DPP<sup>®</sup> HIV-Syphilis Combination Assay (U.S. version)
  - DPP<sup>®</sup> Fever Assays (Malaria, Dengue, Zika, Chikungunya, Ebola, Lassa, Marburg)
  - DPP<sup>®</sup> Technology Collaborations (Traumatic Brain Injury, Cancer, Micro Reader)
- **Multiple high-value collaborations**
  - Paul G. Allen Ebola Program: Fever Panel, Zika
  - Bill & Melinda Gates Foundation: Malaria Oral Fluid/Saliva
  - Centers for Disease Control & Prevention (CDC): Malaria, Ebola, Flu Immunostatus

# Chembio's Dual Path Platform (DPP®) Technology

## Next-Generation Point-of-Care Technology Platform

- Patented POC technology platform
- Improved sensitivity vs. lateral flow technology
- Multiple test results from a single patient sample
- Adapts to multiple sample types (blood, oral fluid)
- Application across a range of diseases and markets
- Unique sample collection device: **Sampletainer®**



# Chembio's Dual Path Platform (DPP®) Technology Leveraging Our Technology Platform to Enter New Markets

## THREE AREAS OF STRATEGIC FOCUS

STD  
Business

Fever  
Portfolio

Technology  
Collaborations

DPP® TECHNOLOGY PLATFORM

# HIV Continues to be a Global Health Crisis

## Syphilis and HIV-Syphilis Co-Infection are Increasing

### United States (HIV)

**~1.2 million**

living with HIV/AIDS

**~50,000**

new HIV infections/year

**1 in 8**

unaware of HIV infection

### Global (HIV)

**35.2 million**

living with HIV/AIDS (2012)

**1.6 million**

died of AIDS-related illnesses (2012)

### United States (SYP)

**~56,000**

new infections (2013)

### Global (SYP)

**12 million**

new infections/year

***“Over the past decade, the number of people living with HIV has increased, while the annual number of new HIV infections has remained relatively stable.” -CDC***

***“About 30% of pregnant women with syphilis will give birth to a dead baby (stillbirth), and another 30% to a live baby with congenital syphilis, a condition with a mortality of up to 50%” -WHO***

# Product Portfolio: Sexually Transmitted Diseases

**DPP® HIV-Syphilis  
Combination**



**DPP® HIV 1/2  
Blood or Oral Fluid**



**HIV 1/2 STAT-PAK®**



**SURE CHECK® HIV 1/2**



# Chembio Lateral Flow HIV Tests

## Foundational HIV Product Suite

### ■ Product Features & Benefits

- FDA (PMA) approved, CLIA-waived
- CE marked, WHO pre-qualified
- 2.5 - 5.0  $\mu$ L blood sample
- 15 - 20 minute test time
- Specificity: 99.9%, Sensitivity: 99.7%



Chembio HIV 1/2 STAT-PAK®



Chembio SURE CHECK® HIV 1/2\*

### ■ Commercialization

- High quality brands, marketed globally since 2007
- Sold to Public Health Clinics, POLs, Hospitals, Self Test (EU)
- Distribution Partners (US): Fisher, McKesson/PSS, H. Schein, Medline

\* Sold in U.S. as Clearview Complete® HIV 1/2 through 5/31/16



# Chembio DPP® HIV and DPP® HIV-SYP Combo Tests

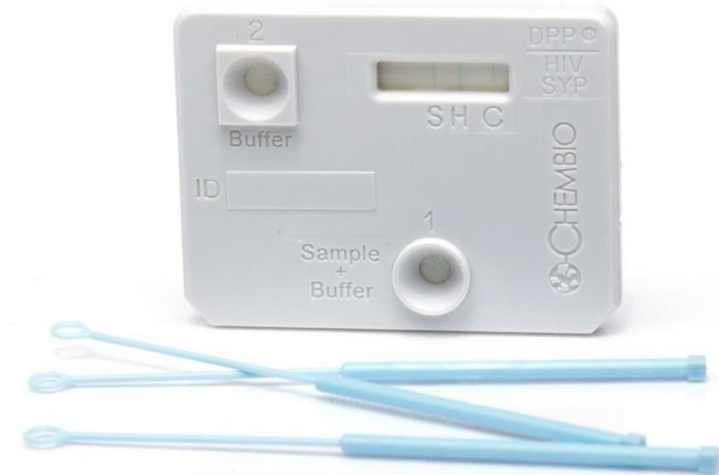
## Addressing a Significant and Growing Need

### ■ DPP® HIV-Syphilis Combo Assay

- First to market with POC HIV-Syphilis combo assay
- First to receive USAID and ANVISA (Brazil) approval
- Successfully launched in Mexico
- Global screening opportunity:
  - Pregnant women
  - MSM (up to 70% HIV-Syphilis co-infection)
- Establishing US clinical trials for FDA approval and CLIA Waiver

### ■ DPP® HIV 1/2 Assay

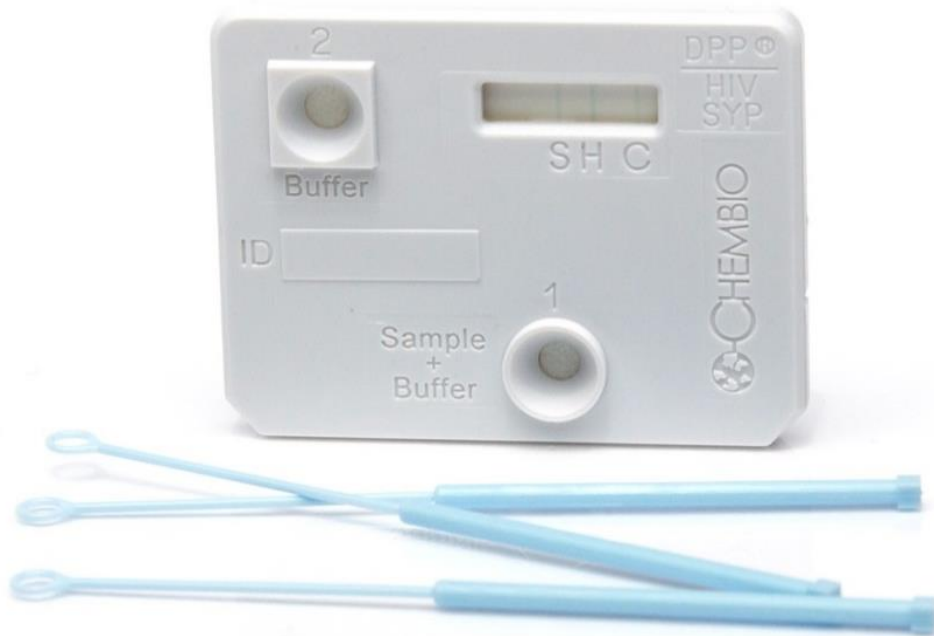
- FDA-approved and CLIA-waived (blood and oral fluid)
- Superior performance (sensitivity) vs. competitors
- Patented SampleTainer® Sample Collection System
- U.S. Launch – Q4 2014



# DPP® STD - Product Development

## Strengthening our STD Portfolio: HIV & Syphilis

- **DPP® HIV-Syphilis Assay (being tested in U.S. market)**
  - Next Generation DPP® HIV-Syphilis Combo Assay for detection of HIV and Syphilis antibodies
  - U.S. Clinical trial initiated Q1 2016



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# Fever Diseases - A Growing Global Concern

## Malaria, Dengue , Zika, Chikungunya, Ebola, Lassa, Marburg

### Malaria

**~214 million**  
infections/year (2015)  
**~438,000**  
deaths/year (2015)

### Zika

**>40 Countries**  
with active Zika virus  
transmission

### Dengue

**~400 million**  
infections/year (2015)  
**40% of world population**  
at risk from Dengue (2015)

### Ebola

**~28,000**  
infections (2014-2015)  
**~11,000**  
deaths (2014-2015)

*“Early diagnosis and treatment of malaria reduces disease and prevents deaths. It also contributes to reducing malaria transmission. WHO recommends that all cases of suspected malaria be confirmed using parasite-based diagnostic testing (either microscopy or rapid diagnostic test) before administering treatment” -WHO*

# DPP® Fever - Product Development

## Partnering with World Leading Organizations

### DPP® Fever Panel

Collaborator: Paul G. Allen Ebola Program

### DPP® Malaria Assay

Chembio Internal Development

### DPP® Malaria-Ebola Assay

Collaborator: CDC

### DPP® Malaria OF/Saliva Assay

Collaborator: The Bill & Melinda Gates Foundation

### DPP® Ebola Assay

Collaborator: CDC

### DPP® Zika Assay

Collaborator: Paul G. Allen Family Foundation

### DPP® Dengue Assay

Collaborator: Undisclosed

### DPP® Chikungunya Assay

Chembio Internal Development

### DPP® Zika/Dengue/Chik Assay

Collaborator: Paul G. Allen Family Foundation

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# Established DPP® Technology Collaborations

## Building Both STD and Non-STD Businesses

### ■ **opTricon (Germany)**

- DPP® Micro Reader designed specifically to complement Chembio's patented DPP® technology

### ■ **Bio-Rad Laboratories, Inc. (NYSE: BIO)**

- DPP® used for Bio-Rad's Geenius™ HIV 1/2 Confirmatory Assay

### ■ **Oswaldo Cruz Foundation (Brazil)**

- Five DPP® Products Currently Being Sold to Ministry of Health in Brazil

### ■ **RVR (Malaysia)**

- License, Technical Transfer, Contract Manufacturing, Distribution (planned)

# DPP® Technology - Collaborations

## Focused on Specific Product Development Opportunities

### DPP® Flu Immunostatus

Collaborator: Centers for Disease Control & Prevention (contractor)

### DPP® Traumatic Brain Injury

Collaborator: Perseus Science Group, LLC

### DPP® Cancer (Specific Form)

Collaborator: Undisclosed

### DPP® Hepatitis C

Collaborator: Seeking Partner



# Manufacturing Capabilities

## United States (Chembio)



- High volume manufacturing capabilities
  - 20MM+ tests annually
- 60,000 sq. ft. leased facilities
  - Medford, NY and Holbrook, NY
- Robust quality management system
  - Full compliance with regulatory requirements (FDA, USDA, WHO, ISO)
  - Expertise in manufacturing scale up, process validation and cGMP
- Number of employees: ~140

## Malaysia (RVR)



- Completed license and technology transfer
- Completed contract manufacturing readiness
- Initiated distribution of Chembio's products into Malaysia
- Initiated plan to manufacture certain Chembio-branded products

# Selected Financial Highlights

Years Ended (in 000's)

	March 31 ,2016	March 31 ,2015
<b>Net Product Revenues</b>	\$5,917	\$5,615
<b>Total Revenues</b>	\$6,601	\$6,231
<b>Gross Margin</b>	\$3,166	\$2,687
<b>Loss from Operations</b>	(\$468)	(\$875)
<b>Net Loss</b>	(\$304)	(\$647)
<b>Cash (as of end of period)</b>	\$2,658	\$2,816

# Executive Leadership Team

EXECUTIVE	JOINED CHEMBIO	PREVIOUS EXPERIENCE
<b>John Sperzel III</b> President & CEO	2014	2011-2013, President and CEO of ITC.; 1987-2011 Axis Shield, Bayer Diagnostics, Instrumentation Laboratory and Boehringer Mannheim
<b>Richard Larkin, CPA</b> Chief Financial Officer	2003	2000-2003, CFO of Visual Technology Group; 1987-2000 CFO of Protex International Corp.
<b>Sharon Klugewicz, M.S.</b> Chief Operating Officer	2012	2009-2012, Sr. VP Scientific & Laboratory Services of Pall Corporation; 1991-2009 Pall Corporation
<b>Javan Esfandiari, M.S.</b> Chief Science & Technology Officer	2000	1997-2000, Co-Founder of Sinovus Biotech AB (Sweden), acquired by Chembio in 2000; 1993-1997 R&D Director On-Site Biotech
<b>Thomas Ippolito</b> VP Regulatory & Clinical Affairs	2005	2000-2005, VP Quality & Regulatory of Biospecific Technologies Corp.; 1984-2000 United Biomedical Inc., Analytab Products Inc. and Eastern Long Island Hospital
<b>Michael Steele</b> VP Sales, Marketing & Bus. Dev.	2012	2008-2011, VP Business Development of SeraCare Life Sciences; 1992-2008 Corautus Genetics, Life Therapeutics and Serologicals, Inc.
<b>Paul Lambotte</b> VP Product Development	2014	2009-2014, President of PLC Inc.; 2009-2012, Chief Science Officer Axxin Pty Ltd.; 2000-2009, VP of R&D and Business Development Quidel, Inc.

# 2015/2016 Milestones – Achieved

- **Received ANVISA approval for DPP<sup>®</sup> HIV-Syphilis Assay**
  - Brazil; February 2015
- **Initiated field testing of DPP<sup>®</sup> Ebola Assay in West Africa**
  - CDC; June 2015
- **Awarded Grant to Develop Multiplex Test for Fever Diseases**
  - Paul G. Allen Ebola Program; October 2015
- **Signed agreement to launch the DPP<sup>®</sup> Micro Reader**
  - opTricon; October 2015
- **Acquired full rights to SURE CHECK<sup>®</sup> HIV 1/2 Assay**
  - SDS: signed January 2015 to be effective June 1, 2016
- **Awarded Grant to Develop DPP<sup>®</sup> Zika Assays**
  - Paul G. Allen Family Foundation; February 2016
- **Entered Collaborations to Develop DPP<sup>®</sup> Fever Assays for Brazil, Including Zika**
  - Bio-Manguinhos/Fiocruz; March 2016 and May 2016
- **Awarded Grant to Develop DPP<sup>®</sup> Malaria Oral Fluid/Saliva**
  - The Bill & Melinda Gates Foundation; April 2016

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