



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.

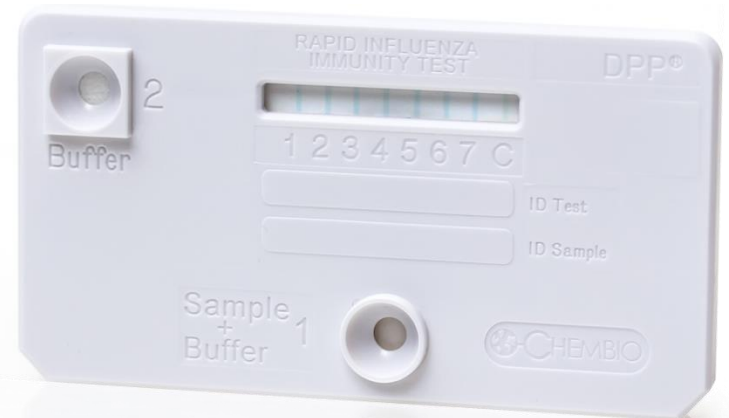
Investment Highlights

- **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® 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® POC assays in development**
 - DPP® HIV-Syphilis Combination Assay (U.S. version)
 - DPP® Fever Assays (Malaria, Dengue, Zika, Chikungunya, Ebola, Lassa, Marburg)
 - DPP® 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

United States (SYP)

~56,000
new infections (2013)

Global (HIV)

35.2 million
living with HIV/AIDS (2012)

1.6 million
died of AIDS-related illnesses (2012)

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 μ 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

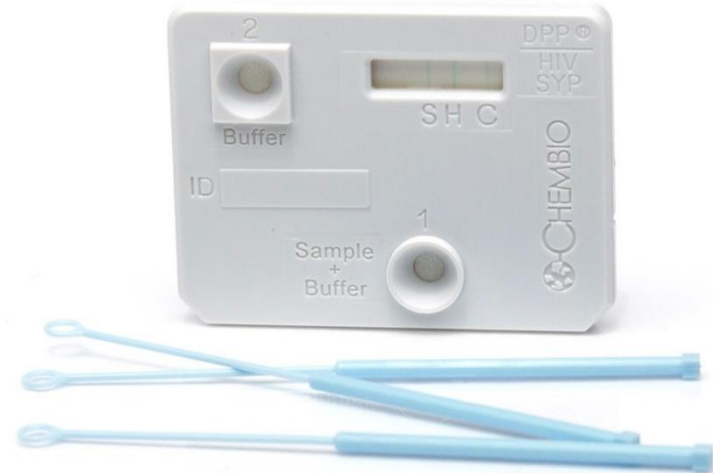
Addressing a Significant and Growing Need

■ 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

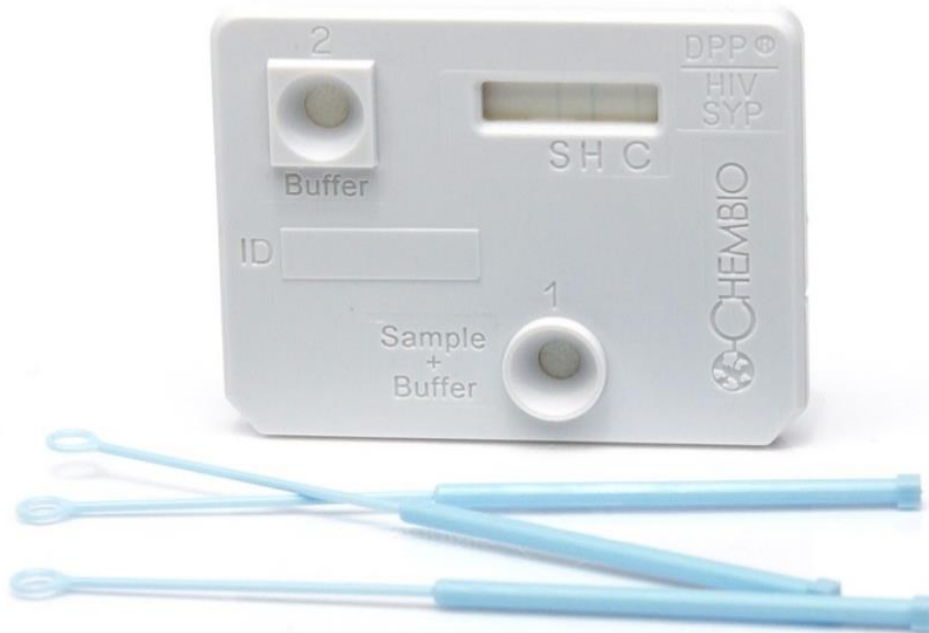
- FDA-approved and CLIA-waived (blood and oral fluid)
- Superior performance (sensitivity) vs. competitors
- Patented SampleTainer® Sample Collection System
- U.S. Launch – Q4 2014



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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DPP® TECHNOLOGY PLATFORM

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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DPP® TECHNOLOGY PLATFORM

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

Executive Leadership Team

EXECUTIVE	JOINED CHEMBIO	PREVIOUS EXPERIENCE
John Sperzel III President & CEO	2014	2011-2013, President and CEO of ITC.; 1987-2011 Axis Shield, Bayer Diagnostics, Instrumentation Laboratory and Boehringer Mannheim
Richard Larkin, CPA Chief Financial Officer	2003	2000-2003, CFO of Visual Technology Group; 1987-2000 CFO of Protex International Corp.
Sharon Klugewicz, M.S. Chief Operating Officer	2012	2009-2012, Sr. VP Scientific & Laboratory Services of Pall Corporation; 1991-2009 Pall Corporation
Javan Esfandiari, M.S. 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
Thomas Ippolito 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
Michael Steele VP Sales, Marketing & Bus. Dev.	2012	2008-2011, VP Business Development of SeraCare Life Sciences; 1992-2008 Corautus Genetics, Life Therapeutics and Serologicals, Inc.
Paul Lambotte 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® HIV-Syphilis Assay**
 - Brazil; February 2015
- **Initiated field testing of DPP® 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® Micro Reader**
 - opTricon; October 2015
- **Acquired full rights to SURE CHECK® HIV 1/2 Assay**
 - SDS: signed January 2015 to be effective June 1, 2016
- **Awarded Grant to Develop DPP® Zika Assays**
 - Paul G. Allen Family Foundation; February 2016
- **Entered Collaborations to Develop DPP® Fever Assays for Brazil, Including Zika**
 - Bio-Manguinhos/Fiocruz; March 2016 and May 2016
- **Awarded Grant to Develop DPP® Malaria Oral Fluid/Saliva**
 - The Bill & Melinda Gates Foundation; April 2016

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