



Investor Presentation May 6, 2010



Forward Looking Statements



Statements contained herein that are not historical facts are forwardlooking 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 obtain additional financing and the demand for Chembio's products. Chembio undertakes no obligation to publicly update these forwardlooking 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. 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**







- Medford, NY Manufacturer of Point of Care Rapid Diagnostic Tests
- 2009 Total Revenues of \$13.8MM \$309K Net Income v. \$11.0MM Rev. - \$1.9MM Net Loss in 2008
- Five Year Revenue CAGR of 33%
- 148% Revenue Increase, to \$5.3MM in 2009, of FDA Approved Rapid HIV Tests Marketed in U.S. by Inverness Medical
- New OEM & Branded Product Pipeline Utilizing Chembio's Patented DPP® Technology

Organization & Management Team



Lawrence Siebert, CEO & Chairman

Richard Larkin, CFO

Javan Esfandiari, Sr. VP R&D

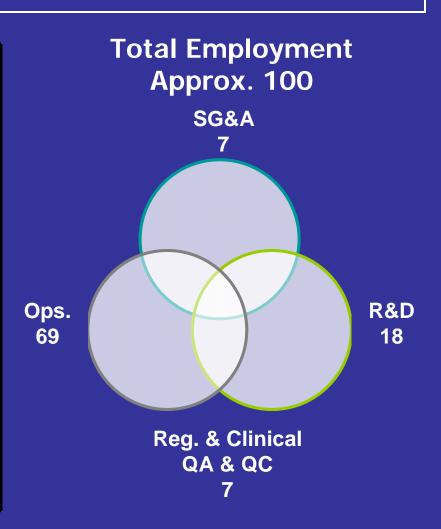
Rick Bruce, VP Operations

Tom Ippolito, VP Reg., QA/QC

Sandy Speer, Dir. Client Serv.

Dr. Gary Meller, Director

Katherine Davis, Director





Regulatory Approvals Provide Access to Large, Diverse & Global POCT Markets



U.S. Food and Drug Administration

CENTER FOR BIOLOGICS EVALUATION AND RESEARCH

Two FDA-Approved PMA's



USDA-Approved Facility & Product



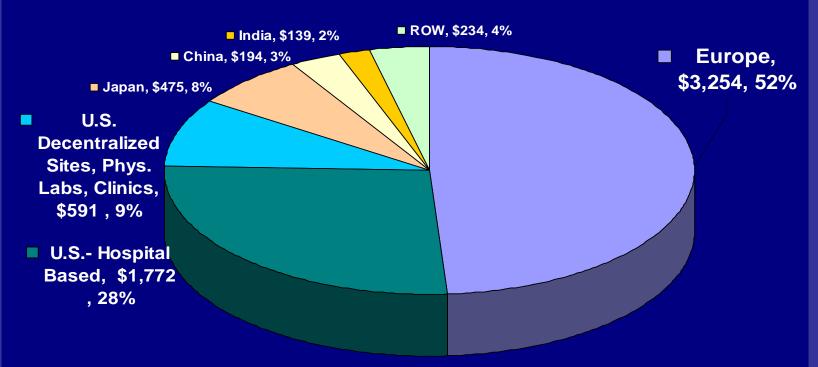
Licenses
ISO Certified for
Global Markets



\$7B Global Point of Care Test (POCT) Market

Worldwide Distribution of POCT Sales (in \$ Millions) and Worldwide Market Shares





At 7% Projected Increases, even with Large Low-Growth Segments (e.g., Glucose), Global POCT Market is Fastest Growing Segment of \$39.5B In-Vitro Diagnostics Market, Projected to Reach \$8.8B by 2012

POCT Market Drivers



- Reduce Patient Stays and Costs, Improve Patient
 Outcomes with Prompt & Early Diagnosis
 - Improve Therapeutic Intervention
 - Prevent Needless Admissions
 - Simplify Testing Procedures to Reduce Testing Costs
 - Avoid Delays from Central Lab Batching
 - Eliminate Need for Return Visit (s)







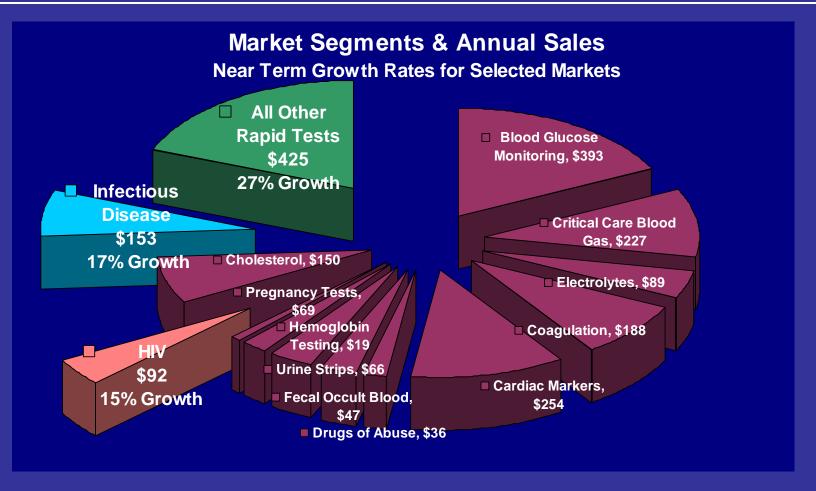




Point of Care Single and Multiplex Test Development, Manufacturing, & Licensing

Our Current LF and Planned DPP® Products Participate in Large & Growing U.S. POCT Market Segments

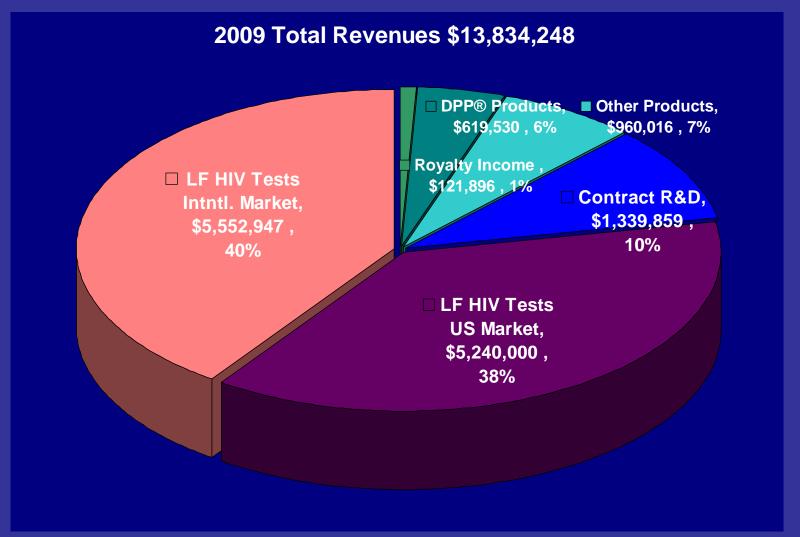






2009 Revenue Composition





FDA Approved Rapid HIV Tests

Distributed in US Exclusively by Inverness Medical



- 148% Revenue Increase in 2009 -\$5.3MM v. \$2.1MM in 2008
 - Gains Based Upon Market Expansion and Increased Market
 Share
- Competitive Features
 - CLIA Waived
 - Two Formats
 - 99.7% Sensitivity;99.9% Specificity
 - ProprietaryFormulationEnables 24 MonthStability
 - Strong Marketing Partner



Chembio's Rapid HIV Tests are Distributed Globally





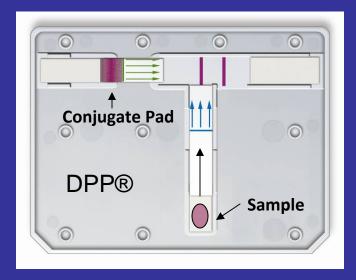
- Approved for Procurements by UN,WHO, CDC/USAID (PEPFAR)
- Registered/Approved in several countries in South America, Asia, and Africa

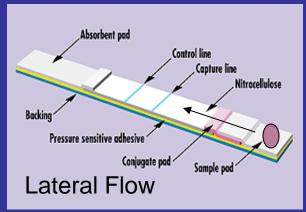
PATENTED DUAL PATH PLATFORM (DPP®)

KEY DESIGN AND PERFORMANCE ADVANTAGES vs. LATERAL FLOW



- Independent Sample Flow Path Enables Improved Sensitivity & Use of More Challenging Sample Types
- Improved Multiplexing Facilitated by Direct Binding, Uniform Delivery of Samples
- US Patent #7,189,522.
 Patent Protection Pending Worldwide

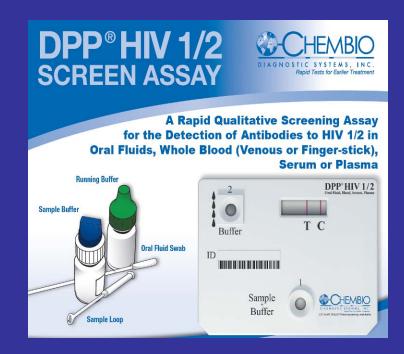




DPP® HIV 1/2 Oral Fluid Assay



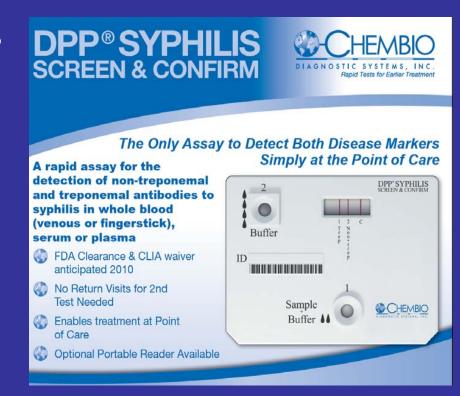
- \$60MM/6MM Unit US Market Growing ~15%/Year
- International Studies
 Completed in 2009
- US Clinical Trials
 Commencing Q1 2010
- Anticipate PMA approval mid-2011
- OTC Opportunity



DPP® Syphilis Screen & Confirm



- First POCT For Syphilis
 In US Estimate
 \$30MM Market
- Provides Better Indication Of Active Disease
- Enables Confirmation& Treatment At POC
- Pre-natal Testing
- International Evaluation Ongoing
- Anticipate 510(K)
 Clearance in Early 2011



Developed in collaboration with the U.S. Centers for Disease Control

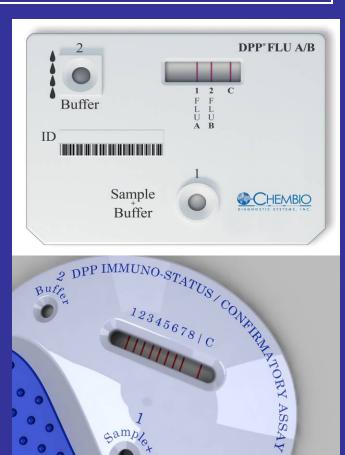


In Development: DPP® INFLUENZA

Multiplex Flu A & B Test & 6 Strain Immunity Test



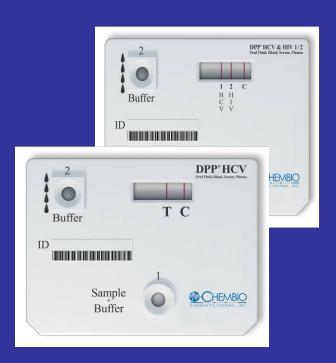
- Large Established Market for Flu A&B tests
- Chembio's First Antigen
 Detection Test with DPP
- Prototype Shows Improved Performance v. Established Tests
- In Addition: \$900,000
 Contract signed Dec. 2009
 with CDC for 6-band
 Multiplex Immune Status Test



In Development: Hepatitis-C (HCV) & HIV/HCV Comb. Oral Fluid



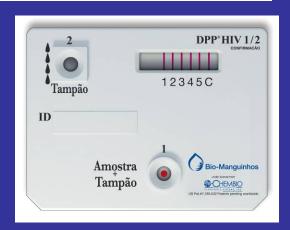
- Estimated 3MM HCV Infections in US
 - Only 22% Diagnosed
 - 25% Co-infection with HIV
 - Major Cause of Liver Disease
 - New therapeutics from Vertex, etc. will drive demand for Dx
- No HCV Point of Care Test in US
- Chembio Participating in Pre-Clinical CDC Study with both prototypes – Expect Data in First Half 2010



OEM Contracts with FIOCRUZ



- Four Products Under OEM Agreements with FIOCRUZ
 - Based on Successful \$8MM
 Tech. Transfer Program
 Completed 2004-2009
- Anticipate Regulatory
 Approval in Brazil of Four
 Products in 2010
 - Potential Revenues of ~\$2MM 2010 and ~\$10MM 2011-2013



OEM Products Overview



	2009	2010	2011	
FDA Approved LF HIV Tests -	\$5.3MM Revenues (148%	Exclusive Agreement with Inverness		
Inverness	Incr. v. 2008)	Medical through 2016 for US Market		
LF HIV Test - Brazil	Completed 5 Year, \$8MM Program; Began royalty phase	Royalties pl	ase	
4 DPP® OEM Products for Brazil	2 Submitted for Regulatory Approval	Anticipated Approval of 4 Products & Initial OEM Product Revenues	OEM Product Sales	
Multiplex Influenza Immune Status Test - CDC	Contract signed Dec. 2009	Product Development	TBD	
Multiplex DPP Product - Bio- Rad	Entered License Agreement & Phase II of Development	Development to be completed mid-2010	regulatory phase	

Three Year, \$3MM Phase II NIH Grant for Leptospirosis Awarded June 2009. Several Other Grants Active and Additional Grant Applications Pending

Chembio Branded Products Pipeline



	2009	2010	2011
DPP® HIV Oral Fluid Rapid Test	International Studies Completed	US Clinical Studies & FDA PMA Filing; International launch	U.S. Launch
DPP® Syphilis Screen & Confirm	International Studies Commenced	US Clinical Studies & FDA 510(k) Submission	U.S. Launch
DPP® Influenza A/B DPP® Hepatitis C	Initial Development Prototype	Complete Development	Regulatory & Commercial Timelines TBD

Completion of HIV & Syphilis Clinical Studies to achieve 2011 Launch will require additional capital



Our Target Markets

U.S. Market Estimates for Current and Future Chembio Rapid Tests

Market estimates based on sales value to end users (e.g., health professsionals or consumers)

	Est. of U.S. Market Size	Growth Rate	Current POCTs in U.S.	Chembio Products in Market	DPP® Products in Development	Comments	Companies w/ Competitive Rapid Tests in US Market	
Existing Markets								
HIV Tests - Professional Market	\$60,000,000	15%	4	2	1	Oral Fluid test in clinical trials	OSUR, TRIB	1
Influenza A-B Antigen Detection	\$140,000,000	20%	4	0	1	In development	IMA, BD, QDEL	2
New Markets								
Syphilis	\$30,000,000	unknown	0	0	1	Clinicals to start in Q3	None	3
HIV Tests - OTC Market	\$80,000,000	unknown	0	0	2	Whole blood "barrel" test could start FDA trials now; oral fluid needs FDA PMA approval first	OSUR in Trials	4
Hepatitis-C	\$150,000,000	unknown	0	0	2	In development	OSUR in Trials	5

Notes to Market Estimates

- 1 Based on estimate of 6 million tests @ \$10 ASP. Market growth at 10-20%/annum; Chembio's current products marketed exclusively
- 2 Analyst Report
- 3 Based on estimate of 3 million tests @ \$10 ASP
- 4 Based on estimate of 4 million tests @ \$20 ASP (15% of analyst estimate)
- 5 Based on estimate of 3 million tests @ \$15 ASP

Completion by Chembio of development, regulatory approval and commercial launch subject to several conditions as set forth in Chembio's SEC filings



Selected Comparative Historical Financial Results 2006-Q1'10



\$(000s) Total Revenues Cost of sales Gross Profit
R&D Expense
SG&A Expense
Operating Income (Loss)
Other Inc. (Expense)
Net Income (Loss) - Stkhldrs
Pref. Stock Expenses
Net Loss
Net Income (Loss) - per Share
Avg. No. Shares (Millions)
Working capital
Total assets
Total liabilities
Equity (Deficit)

	Three Mo	os En	ded	For the Years Ended					
Ma	r 31 2010	Mar :	31, 200 <u>9</u>		<u> 2009</u>		<u> 2008</u>	<u>2007</u>	<u>2006</u>
\$	2,783	\$	2,546	\$	13,834	\$	11,050	\$ 9,231	\$ 6,503
	1,477		1,547		7,974		7,198	6,435	4,894
	1,306		999		5,860		3,852	2,796	1,609
	46.9%		39.2%		42.4%		34.9%	30.3%	24.7%
	801		647		2,884		2,605	1,907	1,402
	661		676		2,659		3,317	3,765	4,787
	(156)		(324)		317		(2,071)	(2,876)	(4,580)
	(1)		(1)		(8)		122	249	(415)
	(157)		(325)		309		(1,949)	(2,627)	(4,995)
	-		-		-		-	5,645	3,210
\$	(157)	\$	(325)	\$	309	\$	(1,949)	\$ (8,272)	\$(8,205)
\$	(0.00)	\$	(0.01)	\$	0.00	\$	(0.03)	\$ (0.57)	\$ (0.80)
	61.986		61.945		61.946	(61.267	14.608	10.293
\$	1,431	\$	1,334	\$	1,494	\$	1,664	\$ 3,229	\$ 5,113
	5,864		5,697		6,315		5,915	6,585	7,907
	2,856		3,429		3,227		3,338	2,322	2,297
	3,008		2,268		3,088		2,577	4,263	(940)

Selected Balance Sheet Data

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Sample Buffer	
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(\$000s)				
Balance Sheet Data	e Sheet Data Mar. '10		Dec. '09	
Cash	\$	798	\$	1,068
Accts. Receivable	1,178			1,776
Inventories	1,980			1,556
Other Current Assets	285			267
Total Current Assets		4,241		4,667
Net Fixed Assets		850		580
Other Assets		773		1,068
Total Assets		5,864		6,315
Total Current Liab.		2,810		3,173
Total Other Liab.		46		54
Total Liabilities		2,856		3,227
Total Equity		3,008		3,088
Total Liabilities & Shareholders				
Equity	\$	5,864	\$	6,315

CEMI Selected Share Data



Ticker Symbol (OTCBB)		CEMI
Price 4/30/10		\$0.230
52 Week High		\$0.390
52 Week Low		\$0.100
Outstanding Shares (MM)		62.0
Market Capitalization		\$14.3
Fully Diluted (FD) Shares		70.7
Management Holding-FD		11.2
Average Volume (3 Mos)		130,000
Options and Warrants (MM)		
Options (4.11MM held by mgmt. & l	board)	5.96
Warrants - Exp. Dates		
	10/6/2011	2.64
	2/5/2012	0.07
Total Warrants		2.71
Total Options & Warrants		8.67
		HEMBIO





www.chembio.com