

**TROVA™** "Off-the-Shelf" OEM POCT Platform

# Your Assay to Quantitative POCT in 3 Months!



*Siloam Biosciences  
introduces **TROVA™** as the first ever  
"Open-Source" READY TO USE POCT Platform*



*Developed for rapid conversion of your  
existing ELISA tests to point-of-care tests with:*

- ✓ **Open-Source Platform:**  
Convert any existing microplate based assays to POCT assays in <3 months!
- ✓ **Ultra High Sensitivity:**  
Improve sensitivity with existing assay reagents
- ✓ **Multi-Analyte Capability:**  
Up to four analytes per test
- ✓ **Lab-Quality Results:**  
Exact same test platform can be used in lab for positive correlation

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# Your Assay on TROVA™

Open Source POCT:

## Existing Assay

2-3 Weeks

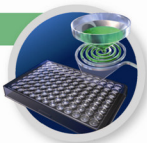
- Any conventional microplate based assay can be adapted to TROVA™ POCT system in ~ 2-3 months.
- Over 60 assays tested and validated to-date.



## OptiMax™ Microplate

2-3 Months

- Rapid assay transfer to OptiMax™ microplate and validate.
- Microfluidic reaction cell in OptiMax™ plate is exactly the same as POCT Microfluidic Cartridge (both based on Optimiser™ technology).



## TROVA™ POCT System



**Final validation on POCT system WITHOUT transfer risk.**

### Microfluidics Cartridge:

Flexible test design for multi-analyte or wide-dynamic range

### Modular Analyzer System:

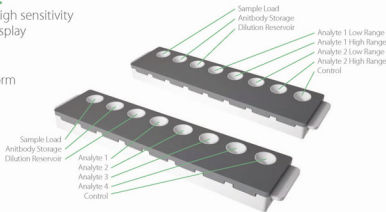
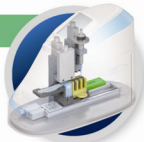
High precision pipetting system, high sensitivity optical detector, and integrated display

### Simplified Design:

All assay specific reagents in dry form on test cartridge

### Ease of Use:

Add whole blood sample tube directly ➡ START ➡ Result in 15-20 minutes



# Clinical Test Data

## Case Studies:

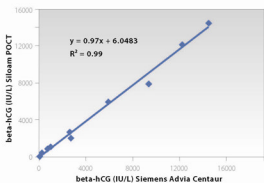
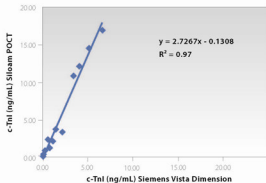


✓ **TROVA™ has demonstrated:**

**High-sensitivity POCT Case Study:** cardiac Troponin-I (HS cTnI) 20 minute assay with detection limit of **0.04 ng/mL** – one of the most sensitive POCT instruments for HS cTnI detection.

**Wide-Dynamic range POCT Case Study:**  $\beta$ -hCG (total) 15 minute assay with operating range of **5 IU/L to 68,500 IU/L** – the first POCT to report such broad dynamic range.

### Clinical sample analysis results: TROVA™ POCT system compared with lab systems



- Multi-day calibration curve
- 12 patient plasma samples tested
- Reference: Siemens VISTA Dimension
- Excellent correlation ( $R^2 = 0.97$ )
- Bias factor  $\sim 2.7x$ . Bias adjusted sensitivity for Siloam POCT  $\approx 0.014$  ng/mL
- Potential to “tune” sensitivity  $< 0.01$  ng/mL – **most sensitive cTnI POCT assay**
- Multi-day calibration curve
- 18 patient serum samples tested
- Reference: Siemens ADVIA Centaur
- Excellent correlation ( $R^2 = 0.99$ )
- Also tested with whole blood samples (6 concentration levels) for consistent serum : whole blood coefficient
- Operating range 5 IU/L – 68,500 IU/L with on-board auto-dilution – **widest dynamic range POCT**

# Adoption Model

The TROVA™ system with ultra-high sensitivity and wide dynamic range is developed as a POCT platform system. Companies can use the TROVA™ to convert their existing microplate based assays to POCT format.



**Siloam**

3 Month Mark ▶

**Partner**

Feasibility  
Demonstration

Non-Binding MOU  
(To define licensing agreement)

Assay Development  
& Validation

Licensing &  
OEM Agreement

Clinical Trial &  
Regulatory Submission  
(Siloam provides all supporting materials)

Your POCT Product!  
(TROVA™ systems and test cartridges  
provided under OEM agreement)

Learn More About  
Optimiser™ Technology



Learn More About  
TROVA™ POCT System

