medmira
helping people know...®

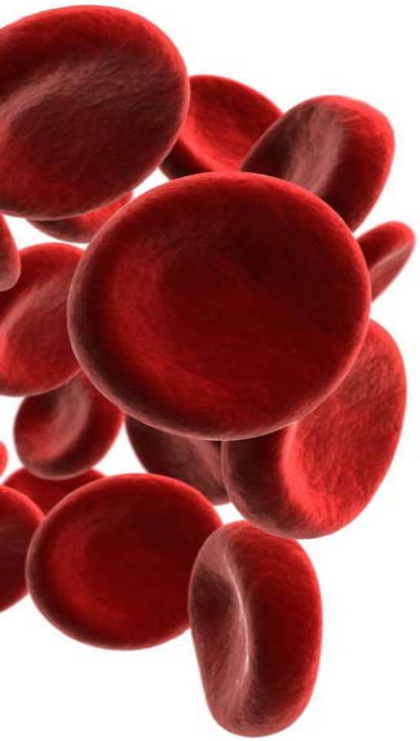
REVOLUTIONARY DIAGNOSTICS

for global healthcare markets

helping more people know…®

- **Established in 1994**
  - **Founders: Hermes Chan and Stephen Sham**
- **Two main facilities**
  - **Corporate and R&D facility (12,000 sq ft) ISO 9001, ISO 13485:2003, GMP certified (FDA)**
  - **Assembly Plant (10,000 sq ft) ISO 9001, ISO 13485:2003, GMP certified (FDA)**

innovation is our life blood



- Focused on the development and commercialization of rapid diagnostics
- We are innovators
  - **First rapid HIV test approved in Canada**
  - **First rapid whole blood HIV test approved in China**
  - **First rapid test for multiple infectious diseases**
- The right balance of R&D, business practices, and quality manufacturing

commitment to quality

- Commitment to quality is the cornerstone of our company
- MedMira's rapid HIV tests hold approvals from 4 major regions including the FDA, Health Canada, CE Mark and the SFDA
- The only rapid HIV test in the world to hold all 4 of these gold standard approvals

a superior testing technology

Our flow through tests are superior to the many lateral flow tests on the market today

- **Multiplicity**
  - **Ability to apply multiple test markers to the test cartridge/membrane, enabling simultaneous results with no cross-reactivity.**
- **Stability**
  - **Room temperature stable (up to 24 months). Does NOT require cold chain transport.**
- **Time**
  - **Instant results with flow-through vs. 10, 20, 40 minutes with lateral flow.**
- **Ease of use**
  - **Simple procedure and no reagents to reconstitute.**
- **Reliability**
  - **Fewer false negative results**

a superior testing technology

MedMira's three-component platform

Flow through test cartridge

- Immunoreactive membrane has distinct control and test zones
- All liquids are held inside the cartridge, decreasing contamination risk

Multifunctional Buffer

- One buffer solution is used to perform all testing steps

Colorimetric Detection Agent

- Instant Gold™ cap – simply place on test cartridge and apply buffer

a vast improvement over other rapid test technologies

- **Majority of other rapid tests use a LATERAL FLOW principle**
  - Limitations of this technology result in higher numbers of false results
  - Infringement of patents

- **MedMira offers the simplest rapid flow-through technology;**
  - Other flow-through tests exist, but;
    - They often require several buffer solutions (liquids) to be used.
    - They often require reagents to be reconstituted before use.
    - They cannot be stored or shipped at room temperature.
    - They do not have their own intellectual property

our products

REVEAL® G3

miraWELL®

miracare™
rapid HIV antibody test

multiplo
one test. more answers.

All of MedMira's Rapid tests utilize the flow-through technology

MedMira tests are flexible – designed for use in every type of testing environment, from the laboratory to point-of-care to over-the-counter

- Our rapid tests can be used with serum, plasma and whole blood
- Tests do not require any complex laboratory equipment, specialized skills, or refrigeration

approvals

The efficacy of our technology is evidenced by the approvals our products have received.

- Single marker
  - H. pylori – USA FDA
  - HIV
    - Health Canada
    - USA FDA
    - China SFDA
    - Europe CE Mark
    - India – DCAI
- Multiplo
  - HIV/HCV/HBV
    - Health Ministry of the Russian Federation
  - HIV/HCV
    - Initiated discussions with the USA FDA to determine approval pathway for this unique product.

highlights of MedMira's rapid flow-through IP

- **Patent Title:** Rapid Diagnostic Device Assay and Multifunctional Buffer
- **Jurisdictions**
  - **EU - European Patent ; Granted**
    - **EU Patent # EP1417489**
  - **USA – Status; Granted**
    - **US Patent # 7,531,362**
  - **China –. Status – Granted**
    - **Patent # ZL 02819646.5**
  - **Canada – Status; Pending**
    - **CDN Application # 2,493,616.**
- **Description of the Patent:**
  - Covers all of MedMira's rapid flow through tests.
    - Describes a device and a method for the detection of analyte(s) in a fluid test sample. Also describes a method for multiplexing - simultaneous detection of multiple biomarkers using a single specimen.
- **No infringement upon Lateral Flow IP**

How does it work?

highlights of MedMira's rapid flow-through IP

MedMira Rapid HIV Test

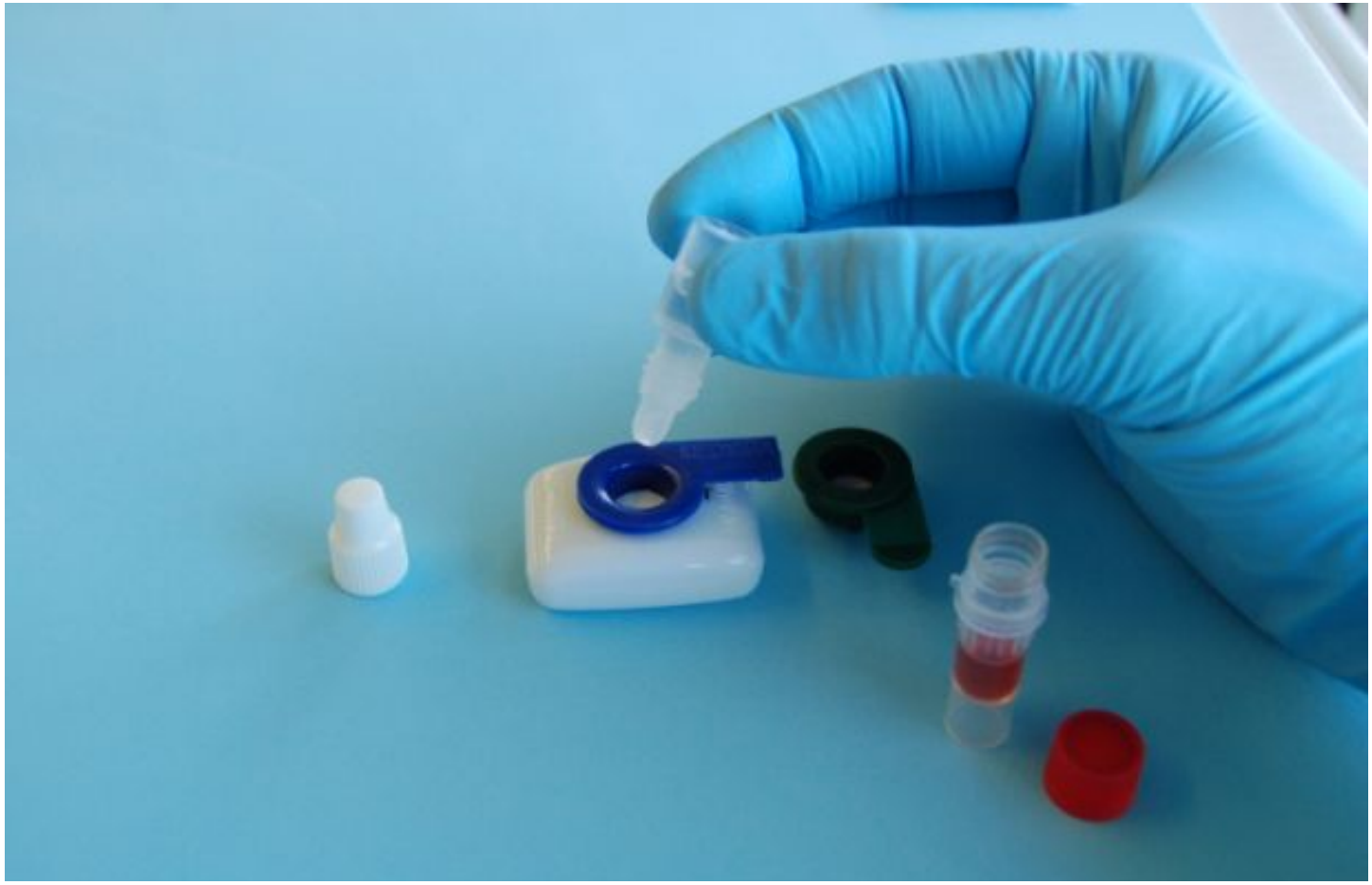
Components of the Test

Specimen preparation

Add 1 Drop of Specimen – serum plasma or whole blood to the to Diluent Buffer Vial

Procedure

Add 6 drops of Buffer to Blue Filter Unit on the Test Cartridge

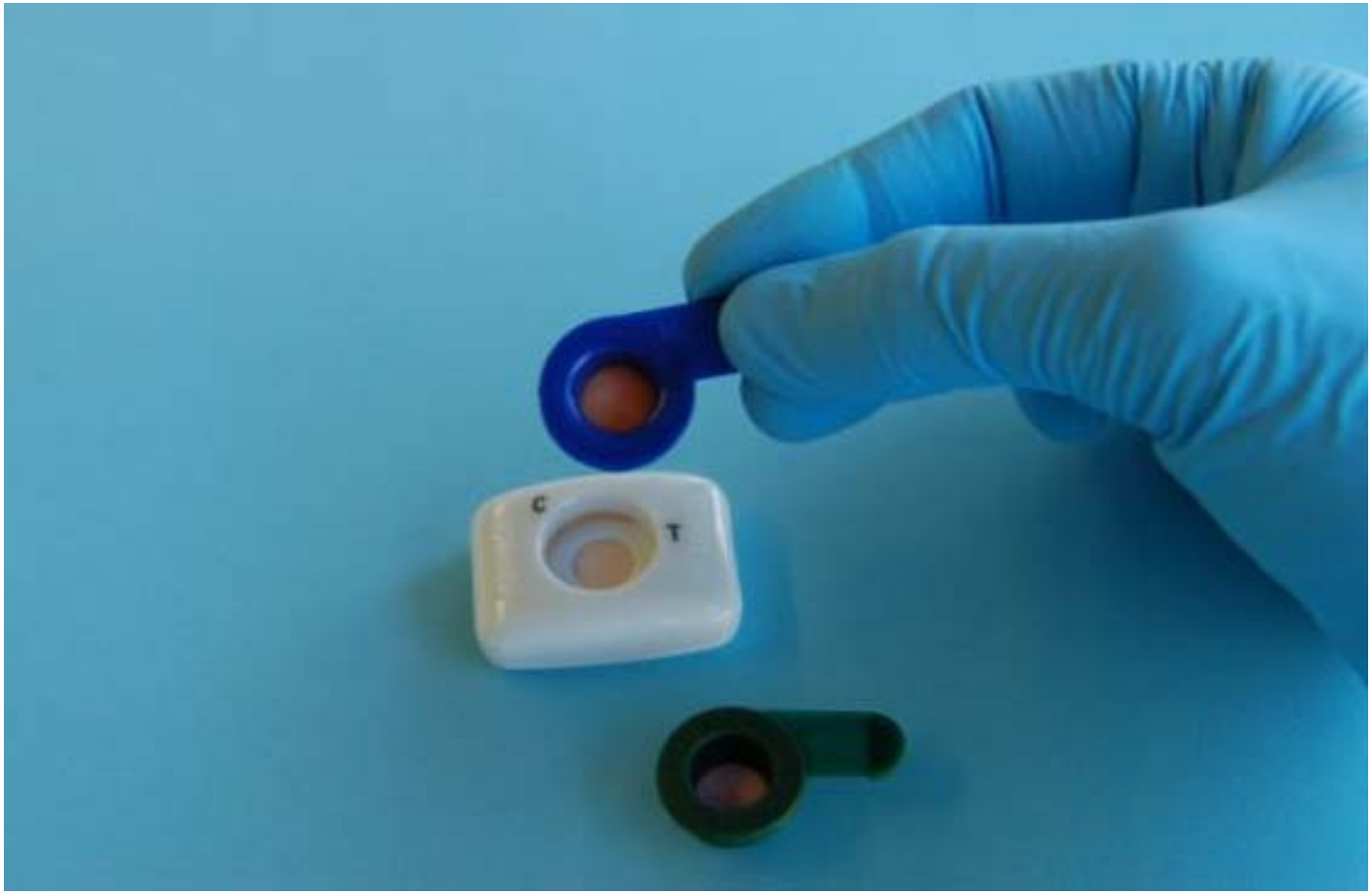


MedMira Rapid HIV Test

Add the Contents of the Diluent Buffer Vial to the Blue Filter and allow the sample to flow through

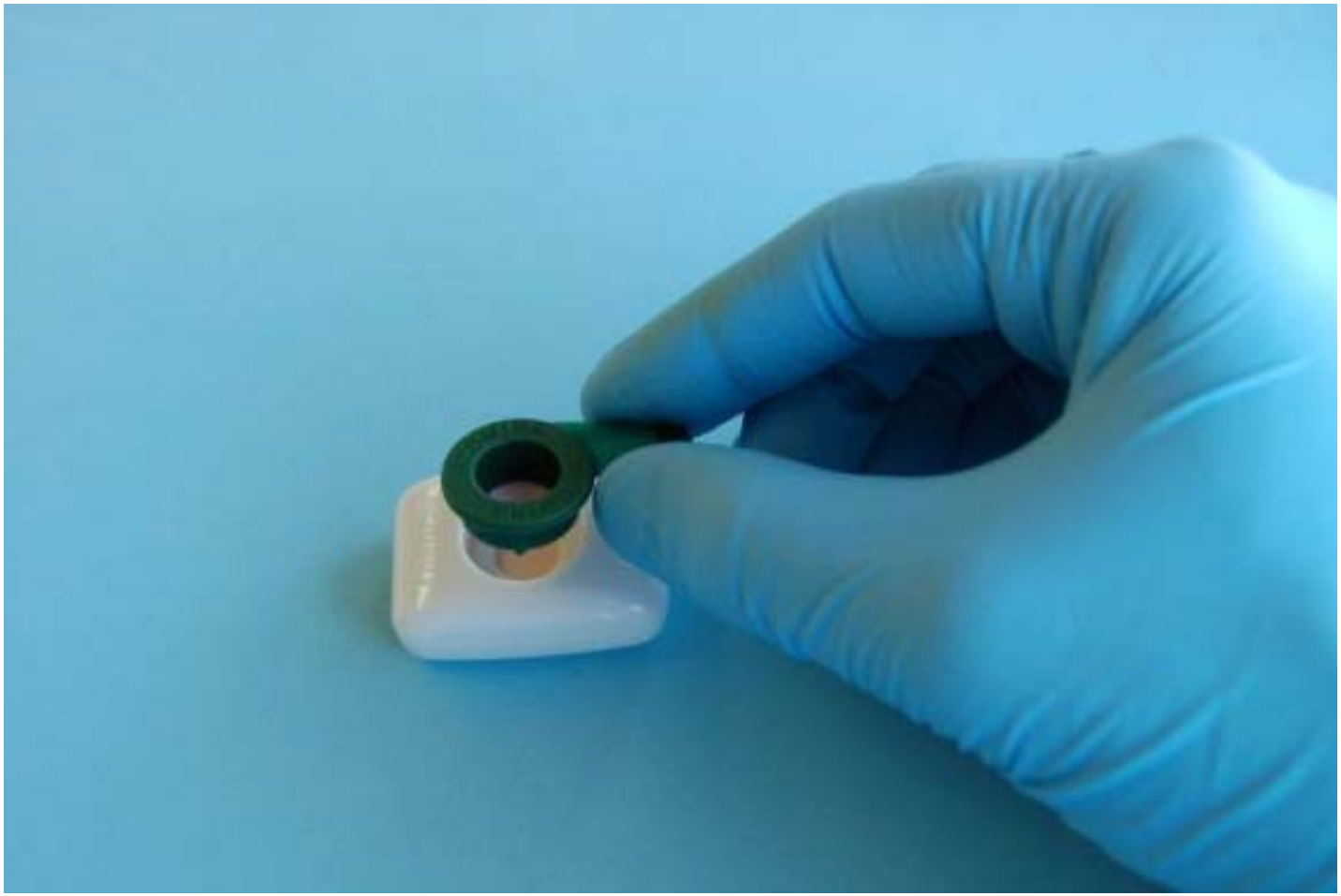
MedMira Rapid HIV Test

Remove the Blue Filter from the Test Cartridge



MedMira Rapid HIV Test

Place the InstantGold Cap onto the Test Cartridge

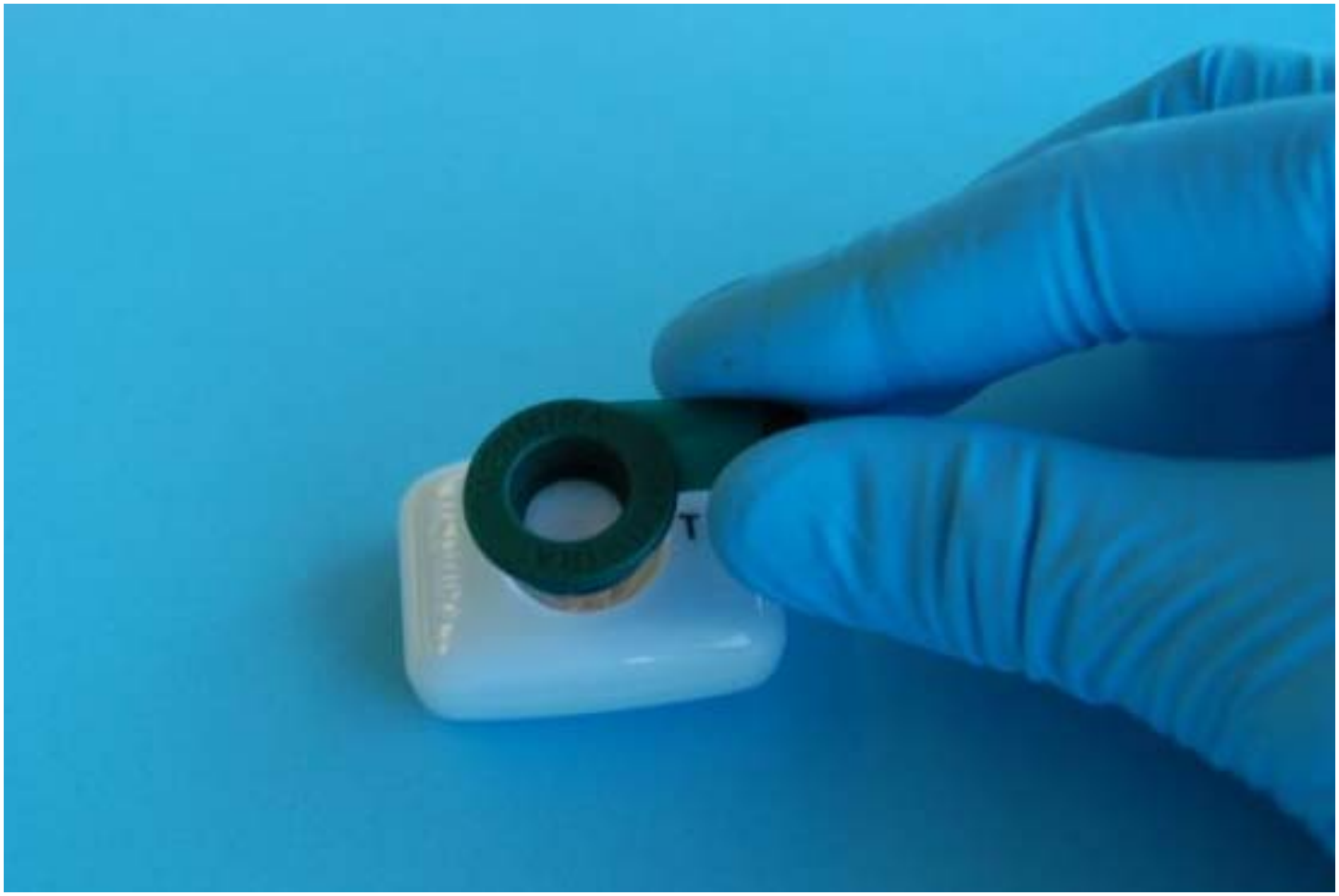


MedMira Rapid HIV Test

Add 12 drops of Buffer to the InstantGold Cap and allow it to flow through

MedMira Rapid HIV Test

Remove the InstantGold Cap
Optional - Add 3 drops of Buffer to the Test Cartridge



MedMira Rapid HIV Test

Read the Test Result

Reactive Result

Red test dot adjacent to “T”

Vertical red line under “C”

Non-Reactive Result

Vertical red line under “C”

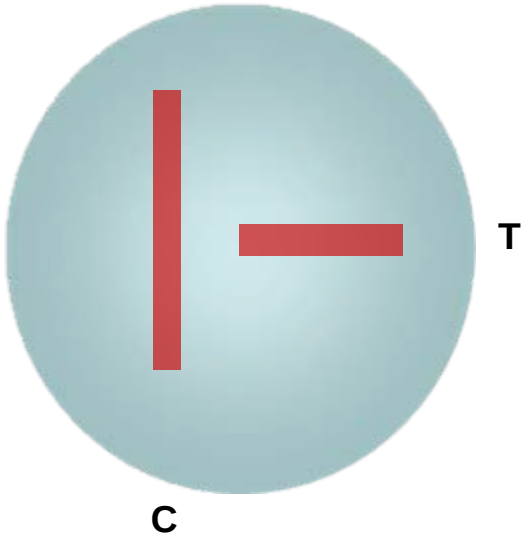
MedMira's Flow Through Technology

Advantage:

- Excess materials are removed from reaction zone, leaving only specifically bound components

Result:

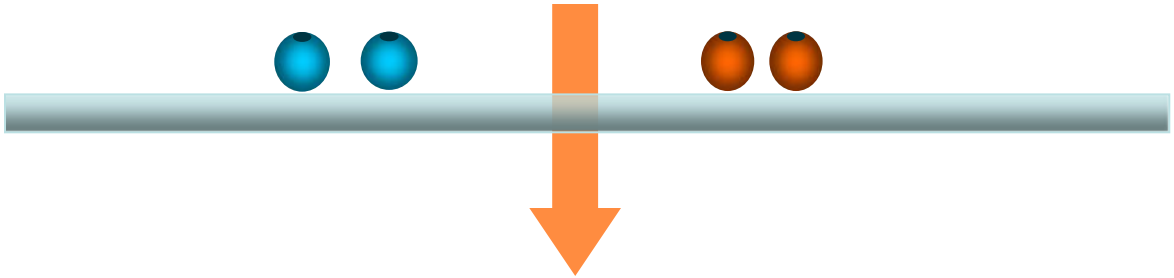
- False results eliminated
- Test easy to read because of clear background
- No need to dilute specimens



MedMira's Flow Through Technology - Multiple Analyte Detection

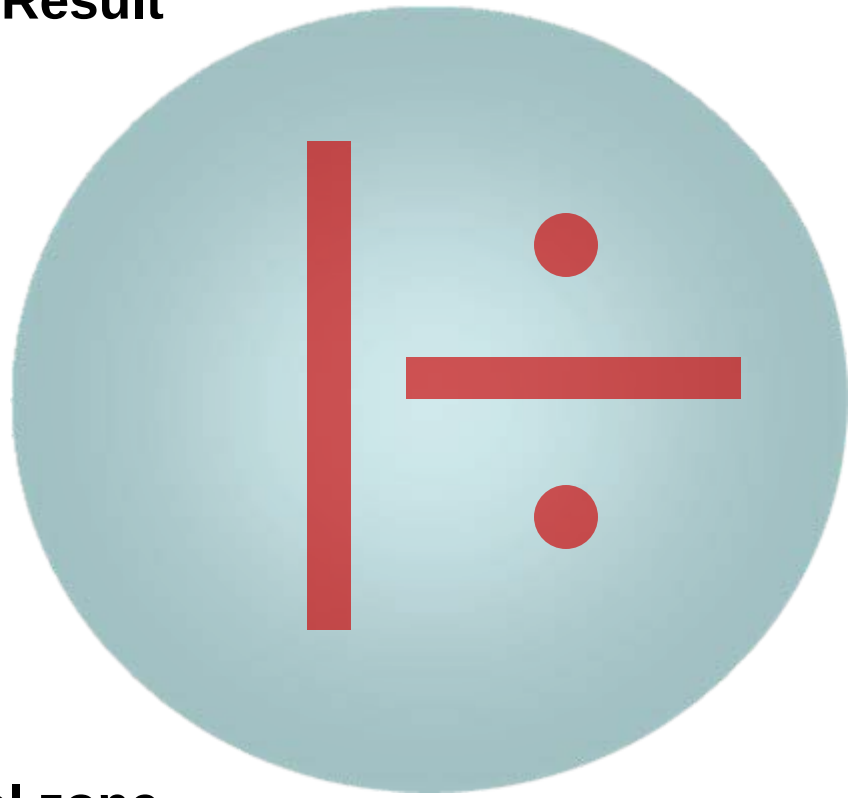
Advantages

- Possible to detect multiple analytes using the same test device by applying multiple capture agents in the test zone of the immunoreactive membrane
- Procedural steps are identical to single analyte detection, and multiple diseases can be diagnosed using one test.



MedMira's Flow Through Technology - Multiple Analyte Detection

Positive Test Result



Test zone

a) Disease A

b) Disease B

c) Disease C

Control zone