

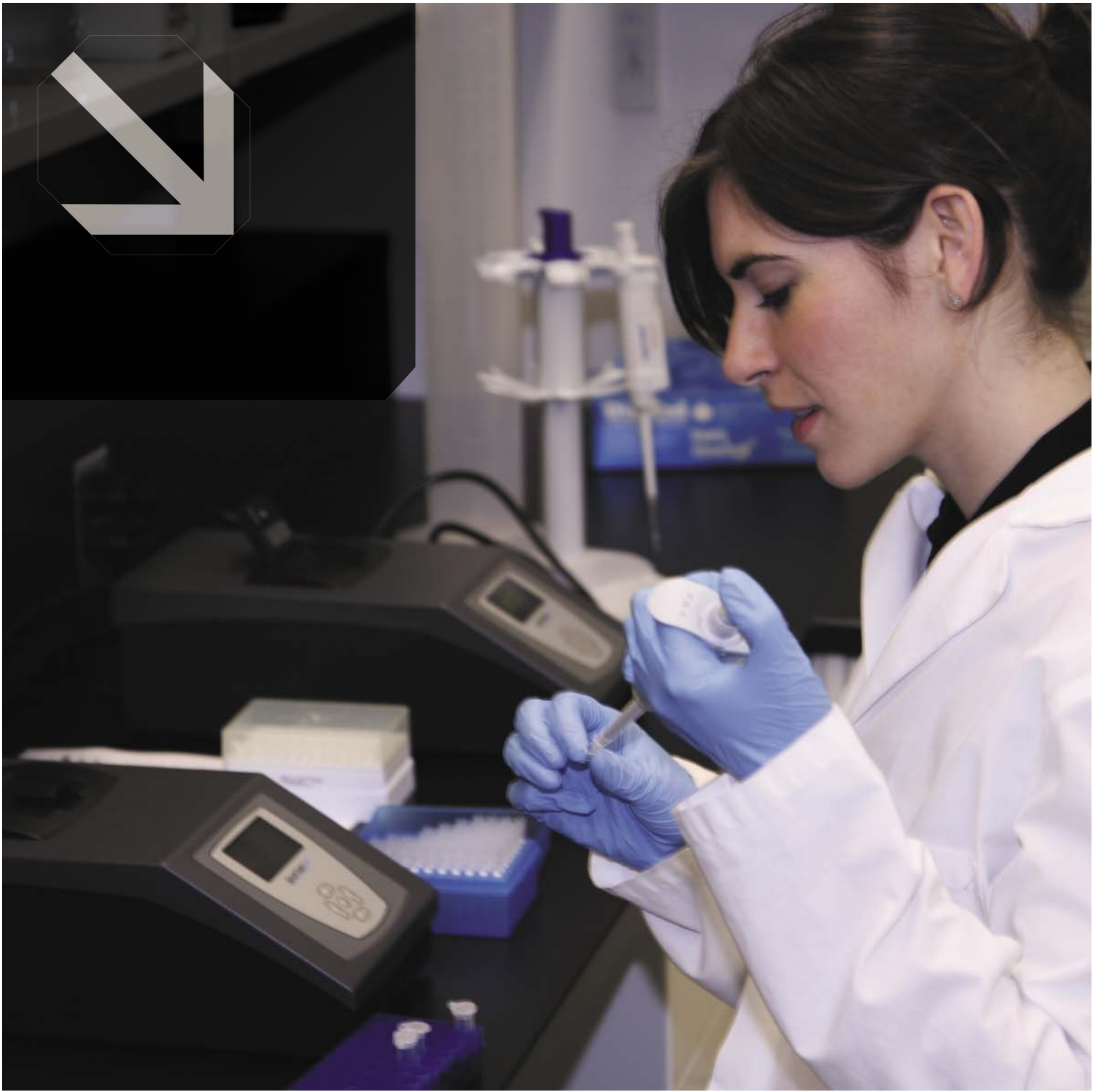
*Spartan*<sup>™</sup>



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**DNA Results  
on Demand**

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*SpartanDX*<sup>™</sup>

The future is DNA results on demand.  
Spartan is leading the way with  
Personal DNA Analyzers.

“The Spartan-HSV assay is reliable and reproducible, with performance equaling conventional real-time HSV PCR. The Spartan DX™ is an excellent choice for laboratories wanting an accurate, affordable and convenient platform to accommodate non-batched, ‘stat’ testing, or for smaller laboratories seeking to implement small scale real-time molecular diagnostics in their facilities.”

**Dr. Tim Karnauchow, PhD**  
Clinical Virologist, Children’s Hospital of Eastern Ontario



# Real-time PCR

## Higher Productivity & Rapid Diagnosis



The Spartan DX™ is designed for non-batched real-time PCR applications. It is a portable, lightweight, and stand-alone instrument. Stop waiting. Start getting DNA results on demand.

- Higher Productivity & Rapid Diagnosis
- 4-well sample capacity and single-channel detection
- Performs 2-temperature PCR programs
- Small footprint maximizes bench space
- Learn to use it in 10 minutes
- Built-in Reverse Transcription (RT) program for RNA analysis
- Proven compatibility with leading reagents and kits

## Protocols

Step-by-step protocols for the Spartan DX enable users to perform rapid and reliable pathogen detection.

Protocols to date:

- |   |                             |
|---|-----------------------------|
| Herpes Simplex Virus (HSV)                                | <i>Neisseria gonorrhoea</i> |
| Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) | West Nile Virus (WNV)       |
| Enterovirus   | <i>Escherichia coli</i>     |
| Vancomycin-Resistant <i>Enterococci</i> (VRE)             | Tuberculosis                |

**SpartanDX**<sup>TM</sup>



**Fast, Affordable,  
Easy to use**



“The Spartan real-time PCR device offers the same desired quantitation and precision but is affordable by all. It is a major breakthrough in this common and necessary technology.”

**Dr. Robert Roberts, MD, FRCPC, FACC**  
**Chief Scientific Officer**  
University of Ottawa Heart Institute

“The Spartan DX is a new real-time PCR instrument that is ideal for use in laboratories wishing to perform non-batched (“stat”) molecular testing. This instrument provides rapid and reliable results comparable to other instruments of this type. It is easily incorporated in laboratories that already perform molecular testing — ideal for smaller labs wishing to introduce molecular testing — also may potentially improve diagnostic microbiology in developing countries as it is easy to use and relatively inexpensive.”

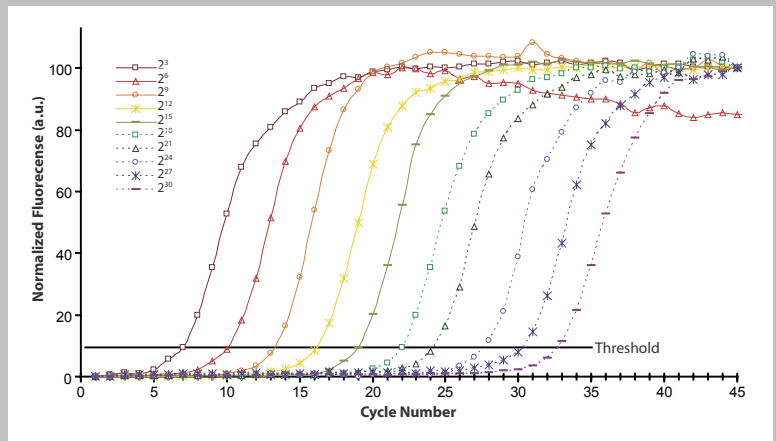
**Dr. Karam Ramotar, PhD**  
**Molecular Microbiologist**  
Ottawa Hospital, General Campus.



## ➤ DNA Results Anytime, Anywhere

### Real-time PCR results.

Linear amplification from 1 billion to 7 copies.



## ➤ Specifications

TECHNICAL	
Sample capacity	➤ 4 wells
Two-temperature PCR	➤ Combines annealing and extension steps
Detection modes	<ul style="list-style-type: none"> <li>➤ Real-time or end-point</li> <li>➤ Qualitative / Semi-Quantitative</li> <li>➤ Single-channel detection (500 nm - 580 nm)</li> </ul>
Operational requirements	➤ Built-in LCD display and keypad. No external computer required.
Data storage and transfer	➤ Flash memory (SD) card and Flash card reader
Ease of use	➤ Simple menus and user interface. Learn to use it in 10 minutes.
Reaction times	➤ 15 min - 90 min
Graphing software	➤ Microsoft Excel® macro — downloadable from website
Reverse Transcription (RT) Program	➤ Enables RNA analysis
CONSUMABLES	
Chemistry compatibility	<ul style="list-style-type: none"> <li>➤ DNA Binding Dyes: SYBR™ Green</li> <li>➤ Fluorophores: FAM, TET, VIC, JOE, HEX, TET, CAL Fluor Gold® 540, and CAL Fluor® Orange 560</li> <li>➤ Quenchers: Non-fluorescent Quenchers (Black Hole Quencher®)</li> </ul>
Reagent compatibility	➤ For use with commercially-available reagents and kits
Reaction tubes	➤ Standard 0.2 ml PCR tubes
PHYSICAL	
Dimensions / Weight	<ul style="list-style-type: none"> <li>➤ Portable with a small footprint</li> <li>➤ 17(W) x 36(D) x 12(H) cm / 4.2 kg</li> <li>➤ 6.69"(W) x 14.17"(D) x 4.72"(H) / 9.3 lbs</li> </ul>
Package contents	➤ Spartan DX™, User manual, Flash memory (SD) card, Flash card reader, 15V power supply
Warranty	<ul style="list-style-type: none"> <li>➤ 1 Year Spartan Standard Warranty</li> <li>➤ Optional Spartan Worry Free Warranty</li> </ul>



**SpartanDX**<sup>™</sup>

Developed and manufactured by

**Spartan Bioscience Inc.**

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**Intended Use**

The Spartan DX<sup>™</sup> is for research use only and is not intended for clinical or diagnostic applications.

PCR and real-time PCR processes are covered by patents of others issued and applicable in certain countries. Spartan does not encourage or support the unauthorized or unlicensed use of PCR or real-time PCR. Use of this product is recommended for entities that either have licenses to perform PCR and real-time PCR or are not required to obtain these licenses.

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