

The Evaluation[®] platform

One technology, from research to clinical application

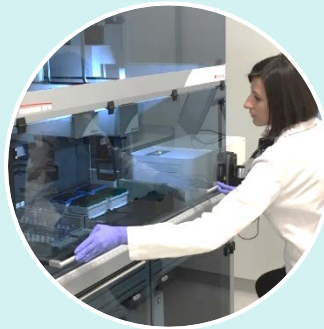
Evaluation[®], MyCartis' proprietary platform, comes in 3 different configurations, each designed to provide unique solutions to life science R&D, clinical research and routine clinical diagnostics. All platforms are built around the same DMAT[®] technology and format, meaning that what you develop now, can be used throughout the assay lifecycle, whatever the endpoint is.

From research to clinical application

Fully compatible assays



Research & Development
Benchtop-size, open platform



Clinical Research
Automated solution



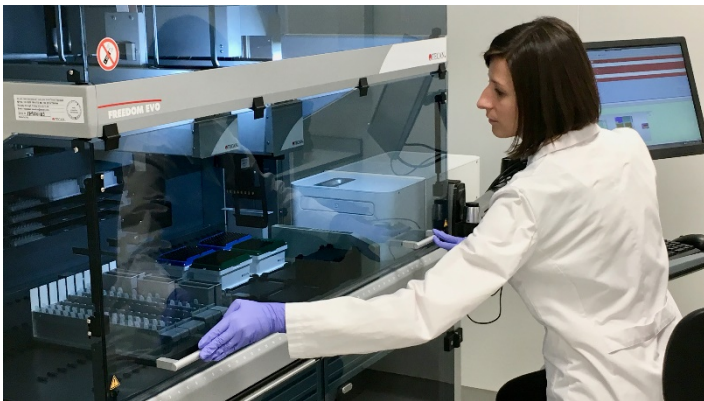
Clinical Diagnostics*
Benchtop-size, IVD compliant

1 - The Research & Development configuration offers maximum flexibility on immunoassay designs and workflows for a variety of life science applications.



- Supports end-point and real-time immunoassays
- Minimal setup time and hands-on time
- No additional equipment required
- 1-16 samples per run (per cartridge)
- Flexibility / open platform to build multiplex panels
- Drag-and-drop protocol building software
- On-the-fly assay reaction visualization
- Automated data analysis with full data traceability

2 - The Automation configuration offers a fully automated solution to meet your clinical research workflow needs.



- Integrated with Liquid Handling System for assay automation
- Onboard dilutions
- Automated processing of up to 128 samples per 8 hours
- Support home-brew and ready-to-use assay kits
- Ability to lock assay protocols for routine assays
- Automated data analysis and full data traceability

3 - The Clinical Diagnostics configuration* addresses the low to medium throughput needs of clinical laboratories.



- Standalone benchtop platform
- Automated sample ID and assay kit lot registration
- Full liquid handling and assay run automation
- On-board sample and reagent storage
- 1-16 samples per run
- Supports LIMS integration
- Development according to CE-IVD standards

* in development

4 - New immunodiagnostic platforms with DMAT® inside (OEM solution) allows everyone to build new platforms with the same unique capabilities as Evaluation®



Multiplexing
10s of biomarkers



Dynamic range
virtually unlimited



Ultra-fast
<15min



Sample volume
microliters



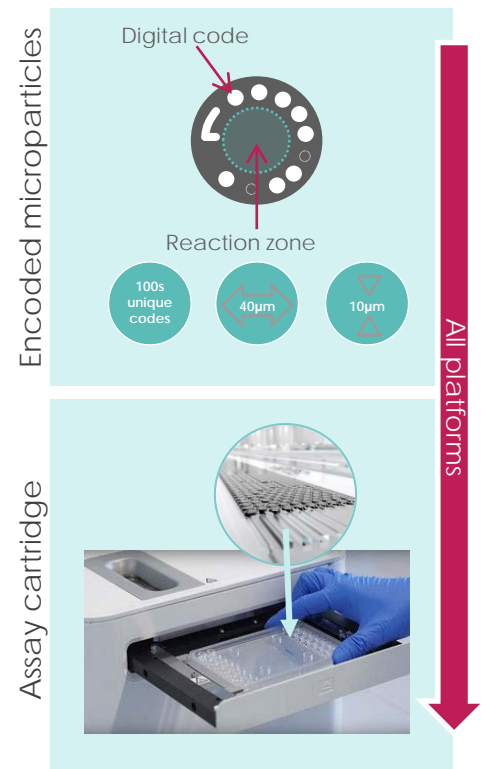
Binding strength
affinity & avidity

DMAT®, the technology behind Evaluation

DMAT® uses disc-shaped silicon-based microparticles for capturing target biomarkers in the sample. The surface is compatible with a wide-range of biomolecules, such as antibodies, recombinant proteins, extracts, polysaccharides etc., and enables multiple assay formats such as sandwich assay and (in)direct assay. **Tens of biomarkers are easily identifiable in a single test simply by reading the unique codes on the microparticles.**

The coated microparticles can be loaded into the **microfluidic cartridge on-demand for maximum flexibility** on the panel composition, or pre-loaded into the cartridge for routine tests. The microfluidic cartridge is designed for optimal immunoassay kinetics. Samples and reagents are actively delivered to the surface of the microparticles inside the microfluidic channels. By precisely controlling the assay environment, diffusion can be greatly reduced and results in very fast assays with minimum assay variability.

Using advanced image processing and data analysis algorithms, DMAT® captures the **fluorescence signals** on the microparticles in real-time and convert the raw data to relevant information such as target concentration and binding strength.



Partnerships

MyCartis provides expert services utilizing its Evaluation®. Our service program includes

- MyCartis collaborates with the Life Science industry for biomarker testing and assay development in research, translational and clinical trials.
- MyCartis offers its platform solutions to the CRO's and service labs to provide their customers the best solution in companion diagnostics and assay development needs
- MyCartis looks to partner with biomarker discovery companies who are interested in bringing new biomarkers and assays onto the Evaluation® Platform
- MyCartis provides technology access to diagnostic platform and technology companies with the opportunity to use the DMAT® technology as a "reader inside" (OEM approach)



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