

Evaluation™

the multiplexed analysis of
biomarkers made fast and simple
by MyCartis



We are
MyCartis



Accelerate your research
Trust your results >

Let's make healthcare personal

The big revolution in healthcare today is that we are finally realizing that we are all equal, but not identical, certainly not at a molecular level. So why do we still use the 'One size fits all'-model in healthcare? MyCartis is convinced that our healthcare system needs radical change and that the future lies in personalization. Our ultimate goal is to identify the right therapy for the right patient at the right time and location with the right dose.

So how are we going to change healthcare?

By being at the forefront of innovation and personalisation.

By sharing knowledge and expertise with like-minded organisations and partners. On our road to validate biomarkers on a larger scale, we are building a bridge between research and medical practice. We will improve healthcare for future generations by making it more efficient and more effective.

We aim at changing healthcare all over the world by making it personal.

1

Integrated platform
for incubation, wash,
and optical readout



2

Combined protein
and nucleic-acid
biomarker analysis



3

Open platform for
lab-developed research
applications and
ready-to-use kits

Evolution™



Evolution™ is MyCartis' multiplex analysis platform tailored to clinical research and pharmaceutical markets and designed to analyze a broad range of protein and nucleic-acid based biomarkers, delivering high quality data and rapid results. Evolution™ provides an integrated incubation and detection environment for simultaneous analysis of large numbers of analytes per assay with minimal handling steps.

The platform Evolution is intended for research use only – Not for diagnostic procedure

Encoded microparticles

- › Produced in MEMS fab from well-established silicon machining technology
- › Thousands of digital codes available for high multiplexing capabilities
- › Compatible with wide range of surface chemistries for multifunctional usage
- › High reproducibility for high data quality

Software

- › User-friendly interface with drag and drop functionality for fast and easy editing of protocols
- › On-the-fly adjustment of protocol for fast assay optimization
- › Real-time building of graphs for full insight into the reaction
- › Comprehensive data analysis for quantification of biomarkers

Instrument

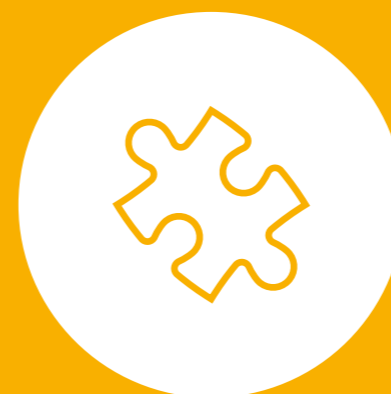
- › Full temperature (25-95 °C) and pressure control for flexible and reliable assays
- › Highly sensitive optics compatible with Phycoerythrin (PE) fluorophores for femtogram/ml level of detection
- › Real-time visualization of reactions and full data traceability for easy and reliable assay development
- › Separate preparation station for the loading of custom set of encoded microparticles into the assay plates



Microfluidic assay plate

- › Integrated reaction and detection environment to ensure short time to results with minimal handling steps
- › Microfluidic environment for ultra-fast biological reactions
- › Ability to run from 1 to 16 samples at the same time
- › Small volumes to preserve precious samples and reagents

Partnership opportunities



MyCartis is committed to a strong partnership model to help assay developers translating their applications into customer solutions, utilizing the ground-breaking capabilities of Evolution™.

Therefore, MyCartis is engaging in:

- › Licensing opportunities of the Evolution™ technology for specific applications and disease areas;
- › Distribution opportunities to provide the healthcare community with our solutions across the world, delivering high-quality and personalized customer service.



Evolution™ application capabilities

Evolution™ has the ability to perform both protein and nucleic-acid assays. This versatility makes the platform usable in a wide range of application areas.

Nucleic-acid applications

Qualitative applications

- > Species detection
- > Genotyping
- > SNP detection
- > Melt curve analysis

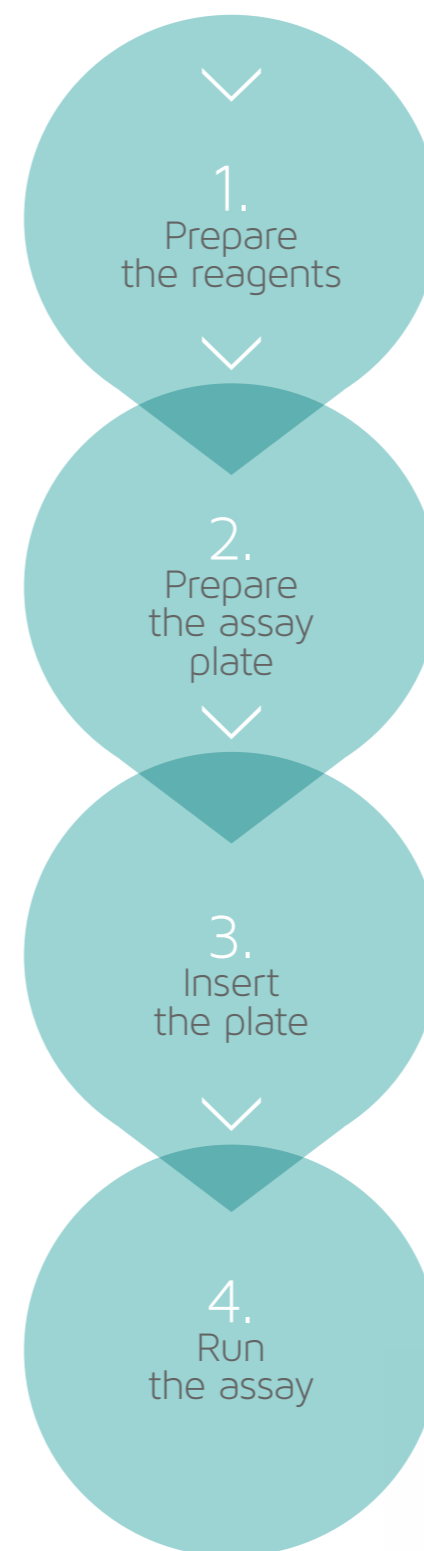
Quantitative applications

- > mRNA profiling
- > miRNA profiling
- > Load monitoring

Protein applications

- > Sandwich immunoassay
- > Competitive immunoassay
- > Antibody capture
- > Antibody selection
- > Binding kinetics
- > Reverse protein assay

Easy workflow



Menu roadmap

Currently MyCartis has multiple scientific collaborations and partnerships in place for the development of novel content on the Evolution™ platform. These development activities will yield assays in the following fields:

- > Oncology
- > Cardiovascular
- > Immunology





Evaluation™ at a glance

- › Powerful tool for assay development
- › Broad range of applications
- › Single platform for protein and molecular assays
- › Simple workflow with minimal handling
- › High sensitivity and broad dynamic range
- › Competitive cost per data point

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