ARRAY READER C-SERIES

The Array Reader C-series instrument is a high-quality array reader for immunoblot array applications in microtiter plate format designed for efficient multiplex diagnostics.

The instrument is designed to analyze colorimetric microarray multiplex assays within each well and can also perform analysis of information in the whole well. The technology eliminates the bottleneck of traditional BLOT processing and capacity and opens up the way to high throughput testing and automation. **This is an in vitro medical device (IVD)**.

The comprehensive evaluation of Microblot Array testing is ensured by using the Microblot-Array Software in combination with the Microblot-Array Reader, enabling complex image analysis including results evaluation and connectivity to LIS.

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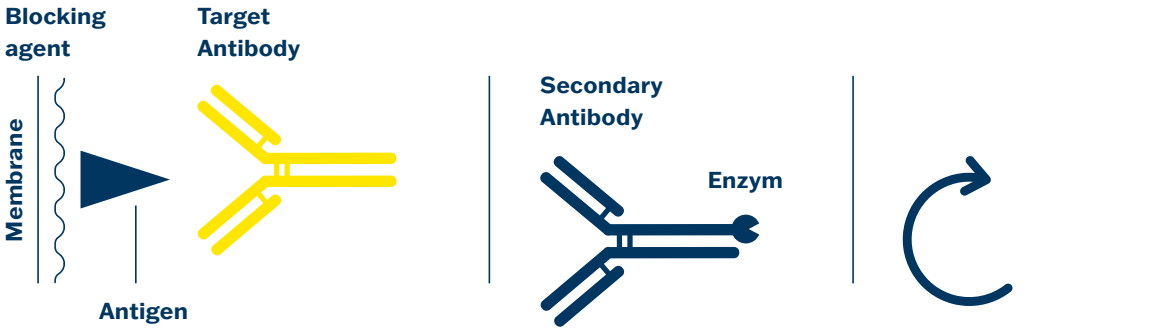
Microblot-Array principle

Specific recombinant proteins/antigens spotted onto a nitrocellulose membrane

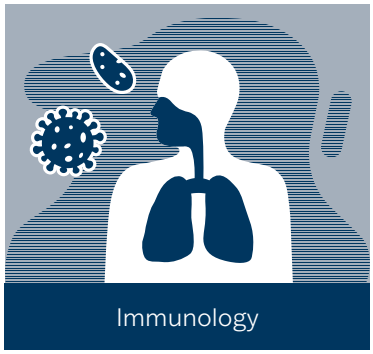


Specific primary antibody binding to protein

Enzyme–conjugated secondary antibody binding to primary antibody

Reaction of substrate and enzyme resulting in coloured insoluble product

Applications

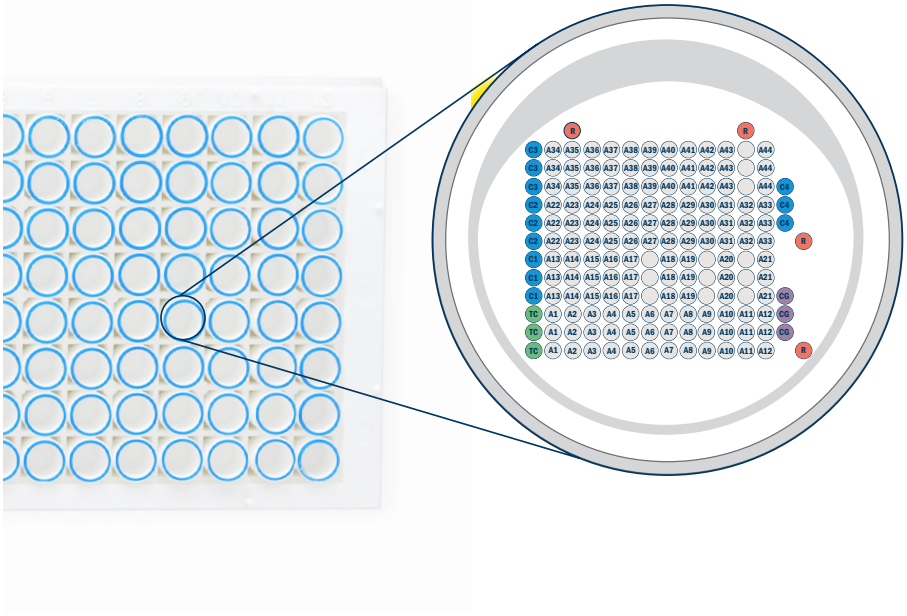


Key Features

- High throughput of samples
- Compatible with 96 well microtiter plate
- Optimized for plate colorimetric immunolot assays
- Fast reading, approximately 5 minutes per plate
- Visible (White) long life LED lighting system
- Reading of all or selected wells and/or strips
- Automated grid layout, spot and image analysis with manual control
- Intuitive and easy-to-use software
- Comprehensive LIS integration capability

Microblot-Array Features

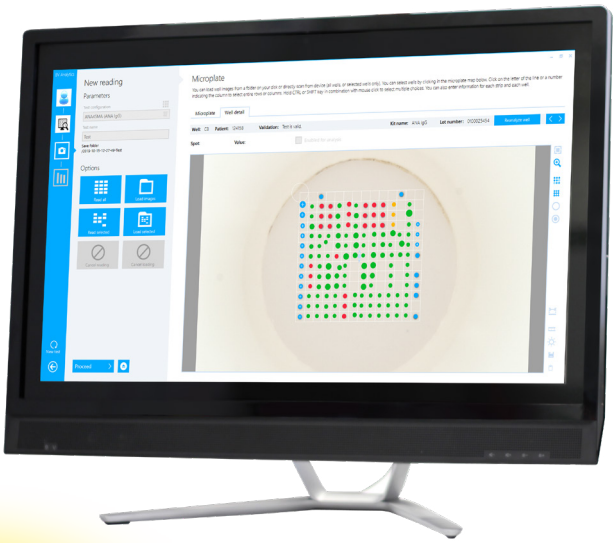
- Antigens spotted in triplicate Minimizing statistical variation
- Controls in each well
- Five calibration spots to create a calibration curve
- Evaluation based on combination of positive antigen spots: qualitative only in excel report or LIS export. For PDF reports user can choose between quantitative or semiquantitative, quantitative (U/ml) or semiquantitative (IP)



- **R** – Reference
- **TC** – Test control
- **CA** – Conjugate control IgA
- **CG** – Conjugate control IgG
- **CM** – Conjugate control IgM
- **C1** – Calibration 1
- **C2** – Calibration 2
- **C3** – Calibration 3
- **C4** – Calibration 4

Software Specifications

- Automated spot localization and test identification
- Intuitive and user-friendly guiding throughout the results evaluation
- Complex image analisis
- Manual control for grid position
- Detailed results comparison within single wells and spots
- Evaluation of the validity test through control spots
- Export of results in various formats
- Cumulative report of all wells, detailed report of each single well, Export to XLSX file
- LIS connectivity



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Technical Specifications

Array Reader C-series

Application	Microarray multiplex assays analysis
Camera sensor	CMOS
Camera resolution	5 Mpx
Camera focus pane	1 – 20 mm
Focus	Automatic
Camera pixel values	Greyscale values
Imaging area size	With diameter of 6.5 mm
Image file formats	PNG 24bit
Lighting technology	Long life LED, White
Lighting system	Top (reflected), Bottom (transmitted)
Measuring time per plate	5 minutes
Autodiagnostic test	Yes
Calibration plate	Yes
PC connection	USB 3.0 or higher
Operating temperature	+5 to +40 °C
Power input	100 – 240 V, 50/60 Hz
Power consumption	50 W
Dimensions	250 x 230 x 430 mm
Weight	17 kg

PC All-in-One

CPU	Intel Core i3 or higher
RAM	8 GB
HDD	min. 256 GB
USB	2x USB 2.0, 1x USB 3.0 or more
Display	23”, 1920 x 1080
Operating System	Windows 10 and higher
Power Consumption	150 W
Dimensions	564 x 444 x 53 mm
Weight	6.7 kg

Microblot-Array dryer

Operating temperature	+10 to +35 °C
Power input	110 – 240 V, 50/60 Hz
Power consumption	200 – 240 W
Dimensions	145 x 170 x 205 mm
Weight	1.5 kg

TestLine®

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CERTIFIED ISO 9001 · ISO 13485

Company is certified to the quality management system standards ISO 9001 and ISO 13485 for in vitro diagnostics.

V09/2024

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