euroimmun
From Revvity

EUROMicroblot – blot technology for high throughputs.



EUROMicroblot – efficient blot technology.



The technology

EUROMicroblots are miniaturised multiparameter line blots in a 96-well microplate format. The microplate wells contain test strips that are printed with purified, pathogen-specific antigens and with controls at defined positions.

The break-off wells can be separated at defined break lines so that the number of analyses can be flexibly adapted to the actual need.

Owing to the MTP format, ELISAs and EUROMicroblots can be processed in parallel on the same ELISA instrument – e.g. screening and confirmatory tests for serological *Borrelia* diagnostics.

In this way, free capacities on the instrument can be optimally used. The subsequent evaluation is carried out fully automatically by the Microwell Imager and the EUROLineScan software.

The ready-to-use reagents are ideally suited for automated processing and can be loaded directly into the instrument without time-consuming decanting.

Thanks to automatic barcode recognition of samples, plates and reagents, traceability is ensured throughout the entire process and all data can be reliably merged.

Features at a glance

- Miniaturised immunoblots for infection diagnostics in microplate format
- Analysis of up to 96 samples per plate – perfectly adjustable to any sample throughput
- Convenient combinations possible – parallel processing of ELISAs and immunoblots on the same ELISA instrument, e. g. screening and confirmatory tests as part of the 2-step *Borrelia* serology
- Automated reading and evaluation of the individual EUROMicroblot strips by the Microwell Imager and the proven EUROLineScan software



Optimal automation solutions for any sa

Processing

For fully automated processing of EUROMicroblots, ELISA platforms with different sample capacities and throughputs are available.

EUROMicroblots are compatible with the EUROLabWorkstation ELISA as well as the EUROIMMUN Analyzer I and I-2P and can be processed on these instruments in one run together with ELISA tests.

Medium
sample throughput

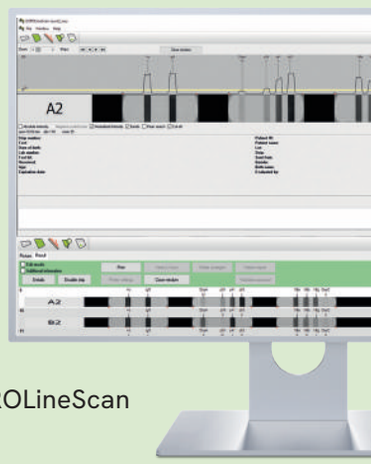


EUROIMMUN Analyzer I

Low
sample throughput



EUROIMMUN
Analyzer I-2P



EUROLineScan

sample throughput.

High
sample throughput



EUROLabWorkstation
ELISA



Microwell Imager

Image acquisition

The Microwell Imager is a compact benchtop device for efficient acquisition of images of incubated EUROMicroblots. The proven EUROLineScan software enables user-friendly operation of the Microwell Imager and convenient evaluation of the recorded blot bands.

The intelligent image pre-processing enables optimal integration into the automated processing of EUROMicroblots. Due to the integrated barcode scanner, reliable assignment of samples is ensured.

Evaluation

The intuitive and user-friendly software EUROLineScan allows automated evaluation of the EUROMicroblots. Additionally, users benefit of a convenient overview of findings and secure archiving of results.

Detailed view



No.	Abbrev.	Name	Int.	Char
1	OspC	OspC	6	o
2	VBg	VlsE Borrelia garinii	91	+
3	VBb	VlsE Borrelia burgdorferi	87	+
4	VBa	VlsE Borrelia afzelii	111	+
5	p83	p83	138	+
6	p41	Flagellin	108	+
7	p39	BmpA	35	+
8	DbpA	DbpA	20	(+)

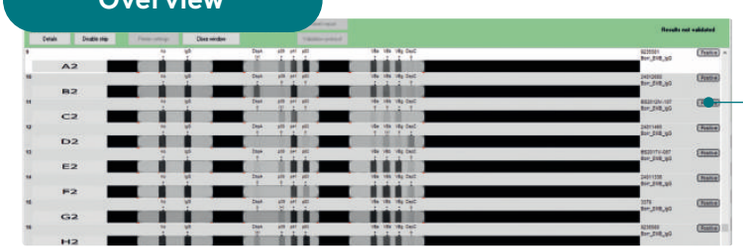
Automated evaluation

The software independently detects and identifies the bands and measures their intensity.

Text modules

Suitable pre-formulated phrases to choose from – for convenient final reporting.

Overview



Result proposal

Clear presentation of test results. The automated evaluation can be supplemented manually if required.

EUROMicroblots and ELISAs combinable on one device

Example workflow for the EUROLabWorkstation ELISA

Tests	Number of patient samples	Instrument runtime (hh:mm)	Number of tests per hour
250 ELISAs Anti-Borrelia (IgG and IgM), 50 ELISAs Anti-EBV-CA (IgG and IgM), 80 ELISAs Anti-Treponema pallidum (IgG and IgM), 80 EUROMicroblots Anti-Borrelia (IgG and IgM)	460	4:51	95
Only EUROMicroblots Anti-Borrelia (IgG or IgM)	94	2:13	42



Assays with proven quality.

EUROMicroblot Anti-Borrelia

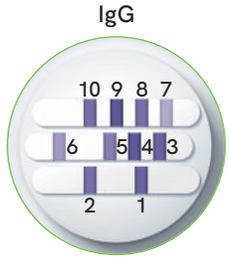
62 and 58 certified quality assessment samples from two different reference laboratories were investigated using the EUROMicroblot Anti-Borrelia (IgG) and EUROMicroblot Anti-Borrelia (IgM), respectively.

Comparison with the specified target values of the QA institutes yielded the following agreements:

- Positive agreement:
  100 % (IgG, IgM)
- Negative agreement:
  97.0 % (IgG) and 100 % (IgM)

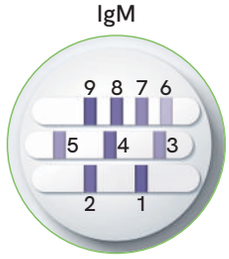
Layout: EUROMicroblot Anti-Borrelia

IgG



1 Conjugate control
2 Serum/plasma control
3 p83
4 p41
5 p39
6 DbpA
7 OspC
8 VlsE Bg
9 VlsE Bb
10 VlsE Ba

IgM



1 Conjugate control
2 Serum/plasma control
3 p39
4 p41
5 VlsE Bb
6 OspC-adv Ba
7 OspC-adv Bb
8 OspC-adv Bg
9 OspC-adv Bsp

EUROMicroblot Anti-EBV

Serologically precharacterised samples were categorised based on their antibody status and analysed using the EUROMicroblot Anti-EBV (IgG) and the EUROMicroblot Anti-EBV (IgM).

Anti-VCA detection

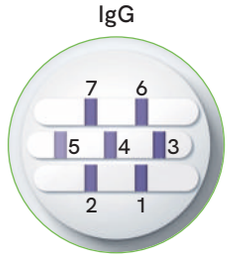
- Diagnostic sensitivity:
  100 % (IgG) and 95.7 % (IgM)
- Diagnostic specificity:
  98.0 % (IgG) and 96.5 % (IgM)

Anti-EBNA-1 detection

- Diagnostic sensitivity:
  98.6 % (IgG)
- Diagnostic specificity:
  94.8 % (IgG)

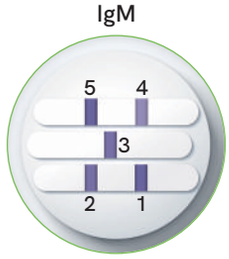
Layout: EUROMicroblot Anti-EBV

IgG



1 Conjugate control
2 Serum/plasma control
3 EA-D
4 EBNA-1
5 p22
6 VCA p19
7 VCA gp125

IgM



1 Conjugate control
2 Serum/plasma control
3 EA-D
4 VCA p19
5 VCA gp125

Order information

Category	Product name	Function	Order number
Test system	EUROMicroblot Anti-Borrelia (IgG, IgM)	Immunoblot for the detection of specific antibodies against *Borrelia*	KN 2131-9601 G, M
	EUROMicroblot Anti-EBV (IgG, IgM)	Immunoblot for the detection of specific antibodies against Epstein-Barr virus (EBV)	KN 2790-9601 G, M
Standard scope of delivery	EUROLineScan	Software for operation of the Microwell Imager and for data analysis	YG 0006-0101
	Microwell Imager	Instrument for image acquisition of the EUROMicroblots	YG 0191-0101
	EUROLabOffice 4.0	Automated data exchange between LIS, EUROLineScan and ELISA instruments for complete traceability	YG 0250-0101-7
ELISA processor (optional)	EUROIMMUN Analyzer I-2P	Fully automated processing of ELISAs and EUROMicroblots	YG 0015-0101
	EUROIMMUN Analyzer I		YG 0014-0101
	EUROLabWorkstation ELISA		YG 0851-0101

Find out more on our test systems at
www.euroimmun.com
or contact us directly:
www.euroimmun.com/contact

EUROIMMUN Medizinische Labordiagnostika AG
Seekamp 31 · 23560 Lübeck (Germany) · Phone: +49 451 2032-0
www.euroimmun.com

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