

A close-up photograph of a hand typing on a computer keyboard. The image is overlaid with a semi-transparent white layer. The word "Automation" is centered in a bold, orange font. In the bottom right corner, there is a yellow warning sign icon with a black exclamation mark.

Automation



Indirect immunofluorescence

Sprinter · EUROPattern · EUROStar



For more information on this subject scan the QR code or enter the Quick Link code **q040** at www.euroimmun.com

Sprinter

Sprinters are modern, fully automated systems for processing immunofluorescence tests (IFT) – from sample identification and dilution to performing the various washing and incubation steps. Slide washing is carried out by flooding, which ensures clear fluorescence signals with minimal background. Sprinters provide the flexibility, performance and reliability required in today's laboratory, minimise the amount of manual handling and enable genuine walk-away time. The IF Sprinter is designed for small and medium-sized laboratories, the Sprinter XL for large laboratories. The instruments are available in various configurations, depending on the requirements of the laboratory, and can also be used as combination instruments for processing ELISA tests.

- **Consolidated system:** Fully automated system for processing IFT and ELISA on one instrument.
- **Rapid and reliable results:** Four washable pipetting needles and two arms (Sprinter XL) for efficient sample processing. Modern washing technology for brilliant fluorescence signals.
- **Secure data communication:** Fully automated identification of the slides via matrix codes (optional), integrated barcode reader for sample identification and a bidirectional online connection.
- **Flexibility:** Instrument configurations for various laboratory requirements. Optional connection to EUROLabOffice for a unique process optimisation in serology.
- **Simplification of routine testing:** User-friendly software and hardware as well as a low-maintenance design for working with minimal effort.
- **Variable capacity:** 96, 160 or 240 samples and up to 30 slides or six microtiter plates (Sprinter XL) , or 15 slides or two microtiter plates (IF Sprinter) in one run.



Product overview

Device	Description	Order number
IF Sprinter IFT	IFT automation for 96 samples, up to 15 slides	YG 0032-0101
IF Sprinter IFT/ELISA	IFT/ELISA automation for 96 samples, up to 15 slides/2 microtiter plates	YG 0032-0101-3
Sprinter XL 160 IFT	IFT automation for 160 samples, up to 30 slides, 4 washable needles	YG 0033-0101-5
Sprinter XL 160 IFT/ELISA	IFT/ELISA automation for 160 samples, up to 30 slides/6 microtiter plates, 4 washable needles, with incubator	YG 0033-0101-3
Sprinter XL 240 IFT	IFT automation for 240 samples, up to 30 slides, 4 washable needles	YG 0033-0101-25
Sprinter XL 240 IFT/ELISA	IFT/ELISA automation for 240 samples, up to 30 slides/6 microtiter plates, 4 washable needles, with incubator	YG 0033-0101-23



Indirect immunofluorescence

Sprinter · EUROPattern · EUROStar



For more information on this subject scan the QR code or enter the Quick Link code **q023** at www.euroimmun.com

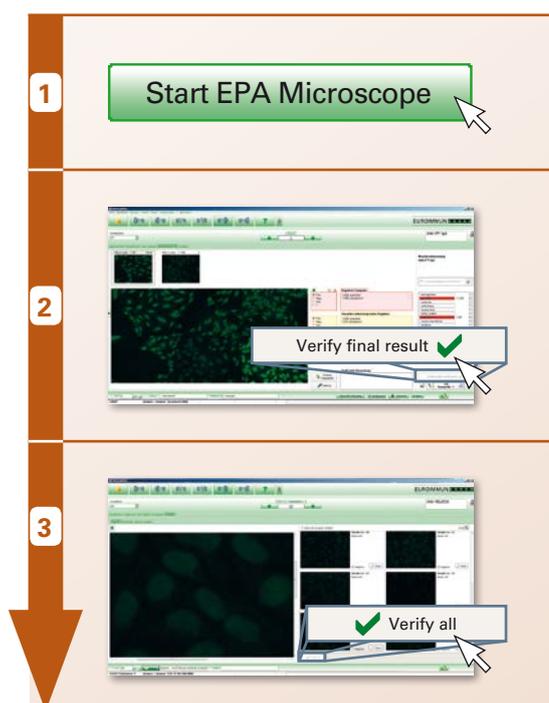
EUROPattern

The EUROPattern system automates immunofluorescence microscopy (slide transport, reading, archiving and interpretation of the immunofluorescence patterns), providing support and improvement in immunofluorescence diagnostics – particularly for the investigation of anti-nuclear antibodies, anti-neutrophil cytoplasmic antibodies and antibodies against dsDNA on *Crithidia luciliae* (CLIFT).

It consists of a fully automated microscope with a slide magazine (loading capacity: 500 fields) together with sophisticated pattern recognition software (1) which not only provides pre-classification in terms of "positive" and "negative", but is also capable of recognising the various basic ANA and ANCA patterns (2). Optionally, the negative samples can be grouped together in a clearly arranged scroll-down view, and from here they can be quickly and reliably confirmed with a single mouse click (3).

EUROPattern simplifies the evaluation process, but more importantly increases the quality, as the automation enables the process to be standardised. Nevertheless, EUROPattern can be adapted to allow for local diagnostic standards. Through integration into the laboratory management software EUROLabOffice, it is possible to flexibly incorporate EUROPattern into any laboratory environment. The high speed of the system and the minimisation of manual handling enable EUROPattern to be employed even with the highest of throughput requirements.

- **Automated microscopy** and a modern reporting system at the screen (ANA, ANCA, Crithidia, tissues, EUROPLUS, transfected cells, e.g. for anti-aquaporin – also in a mosaic)
- **Pattern recognition** for ANA and ANCA, also mixed patterns, Crithidia and transfected cells, reliable focussing owing to integrated counterstaining
- **Rapid processing** of up to 500 analyses automatically in sequence – up to 200 analyses in just one hour
- **Automatic identification of slides** via matrix codes
- **Pencil-free reporting** and collection of results for each patient
- **Ocular-free microscopy at the monitor** – the darkroom has become obsolete
- **Archiving** of images and results and direct access to the patient history



Product overview

Device / software	Description	Order number
EUROPattern	Complete system for computer-aided immunofluorescence microscopy (CAIFM); fast automated microscopy, image acquisition and pattern recognition incl. mixed patterns and corresponding titer; up to 200 analyses per hour; data management and communication with LIS and devices via EUROLabOffice	YG 0075-0101-1



Indirect immunofluorescence

Sprinter · EUROPattern · EUROStar



For more information on this subject scan the QR code or enter the Quick Link code **q025** at www.euroimmun.com

EUROStar III Plus

The LED fluorescence microscope EUROStar III Plus has been tailored to the precise requirements of indirect immunofluorescence – superfluous, and in some cases expensive components have been intentionally dispensed with. A camera can be attached directly to the integrated photo tube for capturing digital images. Switching between the ocular and the camera is no longer necessary thanks to the convenient 50/50 splitter. EUROIMMUN also offers the highly functional EUROPicture software for displaying and manipulating the digital images. For normal bright-field and dark-field transmitted light microscopy, the EUROStar III Plus includes a halogen lamp as standard equipment and can be upgraded for phase contrast work.

■ **Secure and reproducible results:** The regulated LED illumination is a unique development of EUROIMMUN and guarantees a consistent fluorescence excitation.

■ **Economical:** LED with a useful life of more than 50,000 hours and a low current consumption.

■ **Environmentally friendly:** No mercury, no UV radiation.

■ **User friendly:** The LED provides full light intensity immediately after being switched on, the 50/50 beam splitter dispenses with the need to switch between camera and ocular.

■ **Support for quality management:** EUROIMMUN regularly checks the light output of installed EUROStar III Plus microscopes and provides a certificate.

■ **Reliability:** Worldwide there are more than 1,000 EUROStar microscopes in use.

■ **Upgrade feature:** As the cLED from EUROIMMUN is a separate module, it is available for retrofitting to various other microscopes.



Product overview

Device	Description	Order number
EUROStar III Plus	Fluorescence LED microscope with constant, controlled light intensity, life expectancy of LED >50,000 h, convenient 50/50 beam splitter, transmitted light microscopy, camera and optional image recording software EUROPicture, optional dark field and phase contrast	YG 0306-0101-3
EUROIMMUN cLED	Fluorescence LED light source with constant, controlled light intensity, life expectancy of LED >50,000 h, suitable for most Zeiss microscopes with an HBO fixture	YG 0331-0101



Microtiter ELISA

EUROIMMUN Analyzer · DSX



For more information on this subject scan the QR code or enter the Quick Link code **q017** at www.euroimmun.com

EUROIMMUN Analyzer

EUROIMMUN Analyzers are well-established, state-of-the-art systems for the full automation of ELISA tests, and incorporate many features which ensure an optimal routine operation. Through the combination of EUROIMMUN ELISA reagents and EUROIMMUN Analyzers, a quick and simple, but also a secure start of the work list is possible, owing to the automatic recognition and allocation of reagents. A further quality feature is the optionally available climate control unit, which ensures constant incubation conditions – regardless of fluctuating or excessively high laboratory temperatures. The EUROIMMUN Analyzer I-2P is designed for small to medium sample volumes, and the EUROIMMUN Analyzer I for large sample volumes.

■ **One for all:** Fully automated processing of all EUROIMMUN ELISAs – autoimmune, infectious serology and allergy diagnostics – with just one instrument.

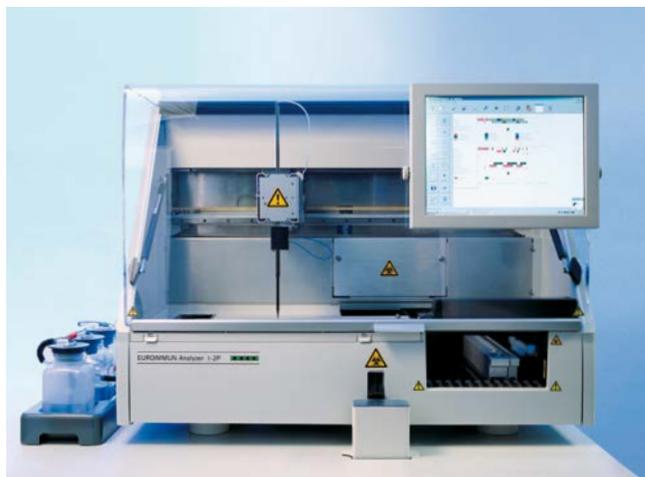
■ **Flexibility:** An open system with more than 800 validated EUROIMMUN test parameters for serum, plasma and CSF, up to 12 different tests per microplate.

■ **Convenient, quick and secure operation:** For example, through automatic reagent identification and allocation by barcode and input of QC certificates by manual 2-D barcode scanner. With ready-to-use reagents and pre-programmed assay protocols the user is able to start without delay.

■ **Capacity and throughput:** Fast loading and efficient time management make rapid processing of the daily routine possible. Up to 70 tests per hour and up to seven plates and 180 samples per run on the EUROIMMUN Analyzer I, and up to 50 tests per hour and up to three plates and 144 samples per run on the EUROIMMUN Analyzer I-2P.

■ **Safety for the patient:** Validated test systems and a comprehensive security package form the basis of reliable diagnostics.

■ **EUROIMMUN ELISAs** are the ideal solution for efficient, convenient and secure processing on EUROIMMUN Analyzers (e.g. ready-to-use reagents which can be placed directly into the instrument and are bar- and colour-coded, flexibly combinable, to a large extent interchangeable and designed for economy).



Product overview

Device	Description	Order number
EUROIMMUN Analyzer I-2P	Fully automated ELISA processing for up to 3 microtiter plates	YG 0015-0101
EUROIMMUN Analyzer I	Fully automated ELISA processing for up to 7 microtiter plates	YG 0014-0101



Microtiter ELISA

EUROIMMUN Analyzer · DSX

DSX

EUROIMMUN ELISAs can be processed on all fully automated microtiter plate systems. Furthermore, EUROIMMUN offers a tailor-made adaptation for the DSX from Dynex Technologies – the EUROIMMUN Reagent Rack – which enables EUROIMMUN reagent bottles to be placed directly onto the instrument. The use of this rack circumvents the time-consuming and error-prone transfer of reagents between bottles. After opening the ready-to-use reagents, the bottles can be quickly and efficiently placed directly into the rack. Meanwhile, the lids can be safely stored in the correct order in the lid rack, also available, ready to be replaced after unloading.

Almost all EUROIMMUN ELISAs have been validated for processing on the DSX. Ready-programmed assay files are available which can be transferred directly to the instrument software, thus enabling the analyses to be started immediately.





Product overview

Accessories	Description	Order number
EUROIMMUN reagent rack	Rack for direct loading of DSX with EUROIMMUN reagents without decanting	Upon request
EUROIMMUN lid rack	Rack for secure and controlled storage of lids of reagent bottles in use in the device	Upon request

Immunoblots

EUROBlotOne · EUROBlotMaster · EUROLineScan

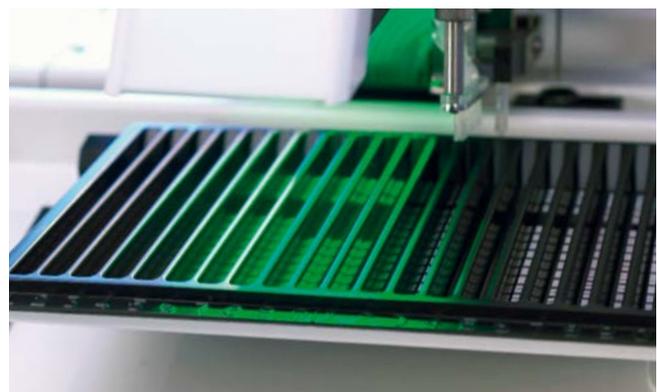
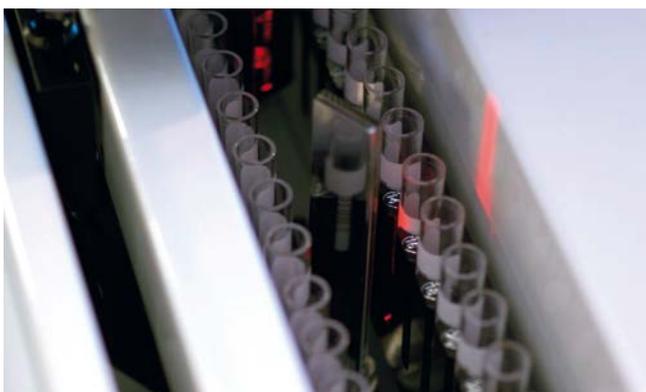


For more information on this subject scan the QR code or enter the Quick Link code **q016** at www.euroimmun.com

EUROBlotOne

The EUROBlotOne is a new compact tabletop device for fully automated processing of immunoblots. Following the fast and convenient software-guided loading, the system manages the identification and dilution of samples as well as all incubation and wash steps. The incubated strips are then automatically photographed and evaluated using the EUROLineScan programme. EUROLineScan can be connected bidirectionally to LIS or EUROLabOffice.

- **Fully automated system:** Processing of immunoblots – from sample identification to the final result. Integrated drying unit for fast evaluation of the strips and high reproducibility of results.
- **Security:** Integrated barcode identification ensures that the correct samples are pipetted.
- **High walk-away capacity:** up to 44 samples or strips in one run.
- **Flexibility:** Combination of autoimmune and infection parameters in one run and autoimmune, infection and allergy diagnostics on one device; processing of a wide variety of innovative multiparameter tests.
- **Simplification of routine diagnostics:** User-friendly software and hardware, minimal maintenance.
- **Reliability:** Automated evaluation of the blot strips with the worldwide-established and user-friendly EURO-LineScan software.





Product overview

Device	Description	Order number
EUROBlotOne	Fully automated blot processing, from sample identification and dilution, through incubation and wash steps to image recording; up to 44 samples/strips; autoimmune, infection and allergy parameters	YG 0153-0101



Immunoblots

EUROBlotOne · EUROBlotMaster · EUROLineScan



For more information on this subject scan the QR code or enter the Quick Link code **q015** at www.euroimmun.com

EUROBlotMaster

EUROBlotMaster systems are small tabletop devices for processing immunoblot tests. Following the software-guided loading of reagents, blot strips and samples, they function as walk-away devices and perform all incubation and wash steps of the protocol fully automatically. The devices are simple to operate via a membrane keyboard with six keys and require minimal daily maintenance of no more than five minutes.

- **Standardised processing of immunoblot strips** – better precision and reproducibility
- **Combination** of autoimmune, infection and allergy diagnostics on one device
- **Two models available:** up to 30 or up to 44 strips per run
- **Easy operation**
- **Combination** of different conjugates/tests in one run
- **Automation of all EUROIMMUN blot strips** (EUROLINE, EUROLINE-WB, Westernblot)



Product overview

Device	Description	Order number
EUROBlotMaster	Blot processor for up to 30 EUROIMMUN blot strips	YG 0151-0101
EUROBlotMaster 44	Blot processor for up to 44 EUROIMMUN blot strips	YG 0151-0101-1



Product overview

Device / software	Description	Order number
EUROLineScan	Fully automated identification, quantification, evaluation and archiving of incubated blot strips, support for protocol generation	YG 0006-0101
EUROBlotScanner	Fast digitisation using flatbed scanner	YG 0102-0101
EUROBlotCamera	Fast digitisation directly in the incubation tray	YG 0104-0101

4	In3
5	m6	Alternaria alternata	...
6	m3	Aspergillus fumigatus	...

drucken speichern Fenster schließen exportieren

m6 m3 M2m1 e3 e2 e1 d2 d1 w9 w6 w1 t7 t4 t3 t2 g12 g6 g3 g1 Serum 1 Inhalation

3 1 2 1 5 5 5 5 5 0 0 0 1 3 5 5 4 5 5 4

f23 f3 f85f35f3f25 f23f184 f49 f20f17f13 f14f9 f5 f4 f45 f2 f75 f1 Serum 1 Nahrungsmittel

0 1 0 0 0 0 3 0 4 0 0 0 0 0 1 0 0 0

g12 g6 Serum 1 Pädiatrie

5 5

EUROArray

EUROArrayScan



For more information on this subject scan the QR code or enter the Quick Link code **q014** at www.euroimmun.com

EUROArrayScan

EUROArrays after hybridisation are read in the EUROIMMUN Microarray Scanner. The EUROArrayScan software automatically recognises the position of the arrays and quantifies the spot signals for each DNA probe. In just a few seconds, the software calculates the test results from the signal intensity for all samples and documents the findings. The extensive, integrated controls are taken into account automatically in the process. Manual evaluation and interpretation of the signals is not necessary. The EUROArrayScan software produces a clearly laid out work protocol for every run, which helps to make processing of the samples simple and secure.

With the report output, the user has the possibility to obtain an overview of the results for all samples with the individual test results and/or a detailed individual report with all partial results together with the associated array image in order to confirm the suggested findings. Furthermore, the user can add individual comments. The results are automatically saved together with the image data, therefore archiving of the incubated microarrays can be dispensed with. It is possible to interface the EUROArrayScan software with an existing LIS (e.g. EUROLabOffice).

■ **Analysis and evaluation system** for molecular diagnostics

■ **Fully automatic evaluation, result output and data archiving**

■ **Rapid evaluation** using a fluorescence scanner – one slide in less than 20 seconds

■ **Result output** in the form of an overview or a detailed individual result

■ Possibility to **add comments to the result**

■ **LIS connection** and **networkability** for optimal data communication and integration

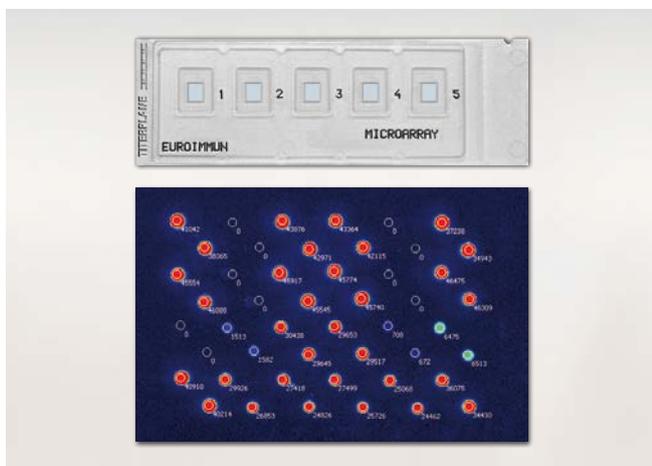
Patienten ID :	0	Test :	HLA-DQ2/DQ8
Ergebnis vom :	09.07.2013	Protokoll :	130528DK_2o_Demo0T
Charge :	121003AB	Druckdatum :	26.08.2013 10:18:01
Patientenname :	0		

EUROIMMUN Medizinische Labordiagnostika AG		Automatische Auswertung mit der EUROArrayScan-Software	
Teilergebnis	Ergebnis		
Kreuz-Kontaminationskontrolle	valide		
Hybridierungs-Spezifitätskontrolle	valide		
Positivkontrolle I	valide		
Positivkontrolle II	valide		
α-subunit HLA-DQ2.2	positiv		
α-subunit HLA-DQ2.5	negativ		
α-subunit HLA-DQ8	negativ		
β-subunit HLA-DQ2.2/DQ2.5	positiv		
β-subunit HLA-DQ8	negativ		
Testergebnis	Ergebnis		
HLA-DQ2.2	positiv		
HLA-DQ2.5	negativ		
HLA-DQ8	negativ		

OT 1 Field 0 Chip 1

*In den europäischen Leitlinien zur Zöliakie-Diagnostik wird ausschließlich der Subtyp HLA-DQ2.5 als Krankheits-assoziiert aufgeführt (Husby et al., J. Pediatr. Gastroenterol. Nutr. 2012;Jan;54(1): 130-00). Andere Studien zeigen, dass mit HLA-DQ2.2 ein weiterer Subtyp ebenfalls mit der Zöliakie assoziiert sein kann, wenn auch verbunden mit einem milderem Verlauf der Erkrankung (Mubarak et al., J. Pediatr. Gastroenterol. Nutr. 2012;Oct 18. [Epub ahead of print] - Stand 11. März 2013).

Unterschrift : _____



Product overview

Device / software	Description	Order number
EUROIMMUN Microarray Scanner, including EUROArrayScan software	EUROArrayScan system for fully automated recording, evaluation and interpretation of results for incubated patient DNA samples using EUROArray technology	YG 0601-0101



Liquid handling

EUROLabLiquidHandler



For more information on this subject scan the QR code or enter the Quick Link code **q020** at www.euroimmun.com

EUROLabLiquidHandler

The EUROLabLiquidHandler is a new development from EUROIMMUN which provides flexible operation for many varied tasks in the laboratory, e.g. for creating dilutions from primary sample tubes in accordance with freely configurable protocols or for transferring liquids into secondary vessels. It supports IIFT, ELISA and immunoblot protocols. The multi-needle system enables all required pipetting steps to be carried out quickly and in parallel, and features a modern, user-friendly software. The software guides the user comfortably through the few simple steps of the loading process, whereby the necessary data entry is carried out via a modern touch-screen display supported by graphics. All EUROIMMUN items and primary tubes used on the system are automatically identified and located directly by the instrument during loading, which makes manual data entry superfluous and minimises hands-on time. The EUROLabLiquidHandler can communicate bidirectionally with a LIS system or with EUROLabOffice.

- **Modular:** Scalable instrument size (deck capacity of 30 or 45 tracks). From 1 to 10 needles can be used, depending on the application.
- **Versatile:** Application-oriented sample, reagent and labware racks (e.g. for ELISA, IIFT and blots). Combined racks for optimised use of the instrument capacity.
- **Flexible:** Individual dilution profiles. Work area has no permanently installed components. Simple integration, even in complex laboratory workflows.
- **Efficient:** Intelligent multi-needle system, optimised travel paths and process times. Visual display of all items and simple loading process with on-screen guidance. Minimal hands-on time through fast and complete data entry for samples, reagents and accessories by means of the integrated 2-D barcode reader. One-time loading of samples for processing several work lists (e.g. screening and subsequent titrations of positive samples).
- **Secure:** Complete, error-free recording and documentation of samples and reagents (including batch numbers) using matrix codes and barcodes. Monitoring of correct function via a special assay and evaluation module (pipetor validation test kit), software-supported maintenance protocols.



Product overview

Device	Description	Order number
EUROLabLiquidHandler 30-x	30 tracks, up to 10 washable needles, up to 300 samples	YG 0830-0101
EUROLabLiquidHandler 45-x	45 tracks, up to 10 washable needles, up to 500 samples	YG 0845-0101

Laboratory management

EUROLabOffice · EUROLabCSF



For more information on this subject scan the QR code or enter the Quick Link code **q021** at www.euroimmun.com

EUROLabOffice

The laboratory management system EUROLabOffice simplifies and speeds up the daily routine in the diagnostic laboratory and increases security through organisation of the entire laboratory procedure and traceable documentation of all data and processes. EUROLabOffice offers many advantages for both the smaller laboratory with mainly manual workstations as well as for high-throughput laboratories with many connected automated systems.

■ **Efficient consolidation in serology:** Supports all EUROIMMUN products for autoimmune diagnostics, infectious serology and allergy.

■ **Maximum automation solutions:** Control of all EUROIMMUN instruments for automation of sample processing and minimisation of manual working steps, central interface between all EUROIMMUN instruments and the LIS.

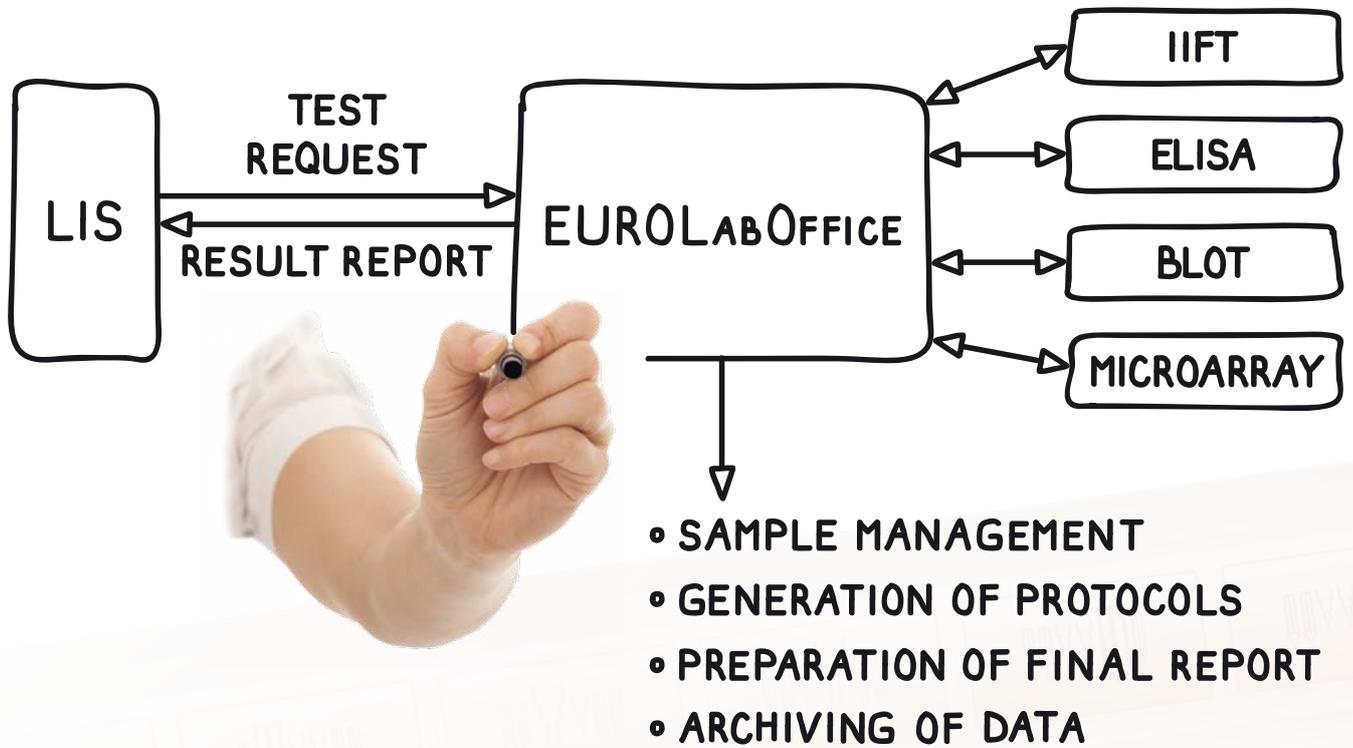
■ **Increase in the efficiency and reproducibility of all working steps:** Completely paperless work procedures in accordance with automated protocols – from easy management of test requests, (cost-) optimised performance of analyses, IIFT result entry in the PC, archiving of IIFT and blot images, right up to the end result.

■ **Comprehensive data processing:** Automated and complete data communication between the LIS and all workstations. Traceability of results, items used and product lots (optional).

■ **Reporting support:** Clear presentation of all the day's results for any patient, direct access to the patient history with a user-friendly search function, documentation and archiving of all relevant information.

■ **Flexible and open system:** Adaptation to existing laboratory processes, various expansion modules available, e.g. for sample sorting, inventory management or reflex testing.





Product overview

Software	Description	Order number
EUROLabOffice	Flexible laboratory management software for optimisation of working procedures and connection of automated systems for increased efficiency and security of results in the diagnostic laboratory	YG 0250-0101-1

Laboratory management

EUROLabOffice · EUROLabCSF



For more information on this subject scan the QR code or enter the Quick Link code **q128** at www.euroimmun.com

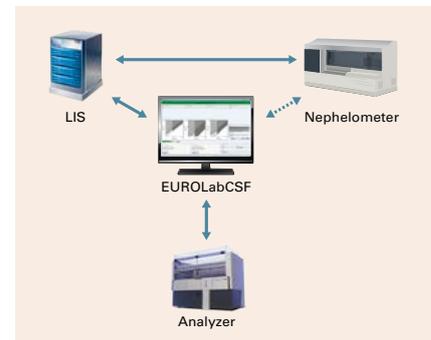
EUROLabCSF

EUROLabCSF is a software for the automated calculation of CSF/serum quotients ($CSQ_{alb.}$, CSQ_{total} IgA/G/M, $CSQ_{path.-spec.}$, $CSQ_{lim.}$ and $CSQ_{rel.}$ or antibody index AI). The $CSQ_{rel.}$ allows a statement to be made on intrathecal pathogen-specific antibody synthesis.

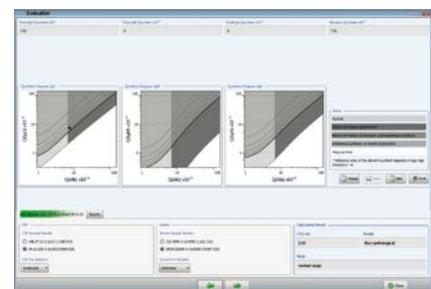
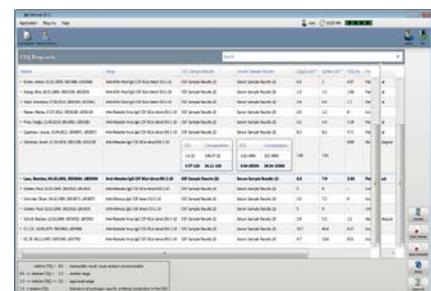
The albumin and antibody concentrations determined by means of a nephelometer and EUROIMMUN Analyzer are transferred online into the EUROLabCSF program. In this way, time-consuming manual data transmission is not required and mistakes in the calculation can be avoided. Manual input of the values or quotients in the EUROLabCSF program is also possible.

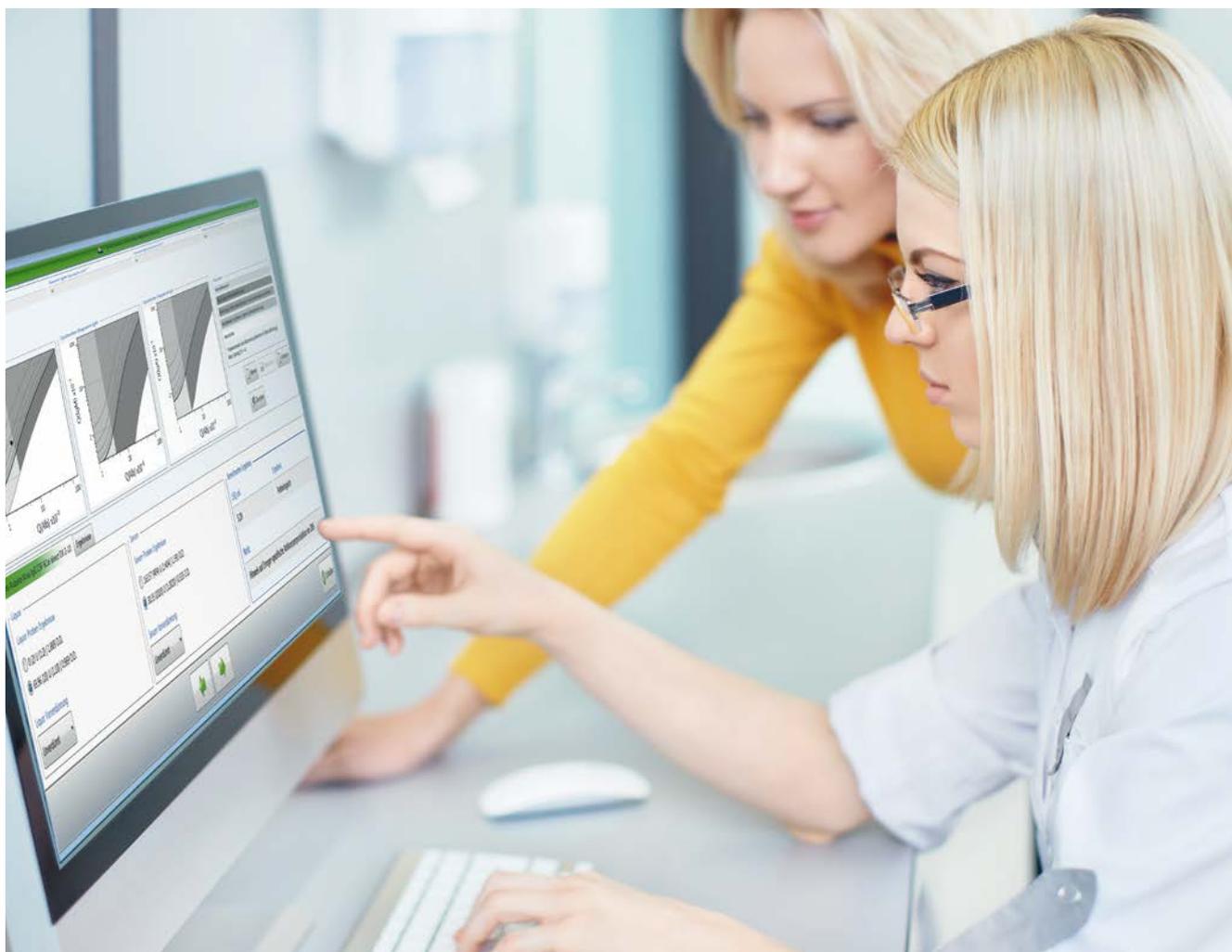
All requested analyses and results are clearly sorted by analyte and patient and can be administered easily and securely. In this view, all essential information available on the status of each sample is displayed. A detailed view showing the CSF/serum quotients can be displayed with just one mouse click. In the detailed view for a patient all results as well a suggestion for diagnosis are displayed.

The CSF/serum quotients $CSQ_{alb.}$ and CSQ_{total} IgA/G/M are additionally displayed graphically in quotient diagrams according to Reiber and Lange and can be interpreted using the legend. A variety of configurations allows for individual adjustment of the used units and report texts.



- Automatic calculation of CSF/serum quotients from pathogen-specific antibody, albumin and total IgA/G/M concentrations
- No manual data transfer necessary – bidirectional data connection between EUROIMMUN Analyzer, LIS and nephelometer
- Clear graphic display in quotient diagrams according to Reiber and Lange
- Individual configuration of units, predilutions and reports





Product overview

Software	Description	Order number
EUROLabCSF	Software for automated calculation of CSF/serum quotients ($LSQ_{alb.}$, LSQ_{total} IgA/G/M, $LSQ_{path.-spec.}$, $LSQ_{im.}$ and $LSQ_{rel.}$ or antibody index AI)	YG 0250-0101-54



Special test kits and reagents for automation

Format

1005:	10 slides with 5 fields each
2005:	20 slides with 5 fields each
1010:	10 slides with 10 fields each
1050:	10 slides with 50 fields each

FC **1512** - **1010** **-1**

page

Product code**Product classification**

AF: Fluorescence-labelled antibodies (FITC) for IIFT (EUROPattern).....	page 62
CA: Control for EUROIMMUN IIFT (EUROPattern)	page 62
FC: Test system for indirect immunfluorescence (EUROPattern).....	page 63
FW: Single slides for indirect immunfluorescence (EUROPattern).....	page 63
AF: Fluorescence-labelled antibodies (FITC) for IIFT (EUROLabLiquidHandler).....	page 66
FA: Test system for indirect immunfluorescence (EUROLabLiquidHandler).....	page 67
FC: Test system for indirect immunfluorescence (EUROPattern&EUROLabLiquidHandler) ..	page 67
ZF: Further reagents for EUROIMMUN IIFT (EUROLabLiquidHandler).....	page 68
ZG: Accessories for EUROLabLiquidHandler	page 68
ZZ: Other items for EUROIMMUN IIFT (EUROLabLiquidHandler).....	page 69

For product orders the amount, product code and test name are required. **Test kits** comprise all reagents needed to perform the serological investigation. For diagnostics in indirect immunofluorescence, for example, these include slides, FITC-labelled antibodies against human immunoglobulin, positive and negative control sera (not available for some products) as well as embedding medium, cover glasses, sachets of PBS and Tween 20.

Substrates consisting of cell cultures and tissues which do not appear in this catalogue can be made to specification. In addition, BIOCHIP mosaics can be produced according to individual requirements. Apart from the customary package sizes and slide formats, special sizes are available as well. Quotations can be provided upon request.

Fluorescence-Labelled Antibodies: Fluorescein (FITC) for IIFT (EUROPattern)

Order No	Antiserum	Format
AF 602-0115 AF 602-0160 AF 602-0546	FITC-labelled anti-human IgG (goat) with Evans Blue	1.5 ml (ready for use) 6.0 ml (ready for use) 5 x 46.0 ml (ready for use) in EUROTank
AF 702-0115-2 AF 702-0160-2 AF 702-0546-2	FITC-labelled anti-human IgG (goat) with propidium iodide for EUROPattern	1.5 ml (ready for use) 6.0 ml (ready for use) 5 x 46.0 ml (ready for use) in EUROTank

Controls for EUROIMMUN IIFT: EUROPattern

Order No.	Control (Ready for Use)	Ig Class	Format
CA 1000-0105 CA 1000-0110	autoantibody-free control (aab negative)	IgA, IgG, IgM	0.5 ml 1.0 ml
CA 1128-0105	antibodies against aquaporin-4 (neuromyelitis optica control)	IgG	0.5 ml
CA 112d-0105	antibodies against glutamate receptor, type NMDA	IgG	0.5 ml
CA 1200-0105 CA 1200-0110	antibodies against granulocyte cytoplasm, cytoplasmic pattern (cANCA control, PR3 ab control)	IgG	0.5 ml 1.0 ml
CA 1211-0105 CA 1211-0110	antibodies against granulocyte cytoplasm, perinuclear pattern (pANCA control, MPO ab control)	IgG	0.5 ml 1.0 ml
CA 1254-0105	antibodies against phospholipase A2 receptor (PLA2R ab control)	IgG	0.5 ml
CA 1439-0105-1	antibodies against leucine-rich glioma-inactivated protein 1 (LG1 ab control)	IgG	0.5 ml
CA 1439-0105-2	antibodies against contactin-associated protein 2 (CASPR2 ab control)	IgG	0.5 ml
CA 1570-0102-4 CA 1570-0105-4 CA 1570-0110-4	antibodies against cell nuclei (ANA control), homogeneous pattern, for EUROPattern	IgG	0.25 ml 0.5 ml 1.0 ml
CA 1572-0105	antibodies against dsDNA (dsDNA ab control)	IgG	0.5 ml

Diagnostics for Indirect Immunofluorescence: EUOPattern

Order No.	Antibodies against	Ig Class	Substrate	Species	Format Slides x Fields
FC 1128-1005-50 FC 1128-1010-50 FC 1128-2005-50 FC 1128-2010-50	aquaporin-4 (AQP4) EUOPattern	IgG	transfected cells control transfection (2 BIOCHIPS per field)	EU 90 EU 90	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system)
FC 112d-1005-6 FC 112d-1010-6 FC 112d-2005-6 FC 112d-2010-6	"Autoimmune Encephalitis Mosaic 6" EUOPattern glutamate receptor (type NMDA) contactin-associated protein 2 (CASPR2) glutamate receptors (type AMPA1/2) leucine-rich glioma-inactivated protein 1 (LGI1) Dipeptidyl aminopeptidase-like protein 6 (DPPX) GABA B receptor	IgG	6 BIOCHIPS per field: transfected cells transfected cells transfected cells transfected cells transfected cells	EU90 EU90 EU90 EU90 EU90	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system)
FC 1200-1005 FC 1200-1010 FC 1200-2005 FC 1200-2010 FW1200-1005 FW1200-1010 FW1200-2005 FW1200-2010	cytoplasm of granulocytes (cANCA, pANCA), nuclei of granulocytes (GS-ANA) EUOPattern	IgG	granulocytes, ethanol-fixed	human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)
FC 1201-1005-2 FC 1201-1010-2 FC 1201-2005-2 FC 1201-2010-2 FW1201-1005-2 FW1201-1010-2 FW1201-2005-2 FW1201-2010-2	"Granulocyte Mosaic 2" EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cANCA, pANCA, EUOPattern	IgG	2 BIOCHIPS per field: granulocytes (EOH) granulocytes (HCHO)	human human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)
FC 1201-1005-13 FC 1201-1010-13 FC 1201-2005-13 FC 1201-2010-13 FC 1201-12010-13 FW1201-1005-13 FW1201-1010-13 FW1201-2005-13 FW1201-2010-13	"Granulocyte Mosaic 13", EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cell nuclei (ANA), cANCA, pANCA cANCA, pANCA, EUOPattern	IgG	3 BIOCHIPS per field: granulocytes (EOH) HEp-2+granulocytes (EOH) granulocytes (HCHO)	human human human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 120 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)
FC 1201-1005-15 FC 1201-1010-15 FC 1201-2010-15 FC 1201-1050-15 FW1201-1005-15 FW1201-1010-15 FW1201-2010-15 FW1201-1050-15	"Granulocyte Mosaic 15", EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cell nuclei (ANA), cANCA, pANCA	IgG	2 BIOCHIPS per field: granulocytes (EOH) HEp-2+granulocytes (EOH)	human human	10 x 05 (test system) 10 x 10 (test system) 20 x 10 (test system) 10 x 50 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 10 (single slides) 20 x 50 (single slides)
FC 1201-1005-22 FC 1201-1010-22 FC 1201-2005-22 FC 1201-2010-22 FW1201-1005-22 FW1201-1010-22 FW1201-2005-22 FW1201-2010-22	EUROPLUS "Granulocyte Mosaic 22" EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cANCA, pANCA, EUOPattern pANCA: myeloperoxidase (MPO), EUOPattern cANCA: proteinase 3 (PR3), EUOPattern	IgG	4 BIOCHIPS per field: granulocytes (EOH) granulocytes (HCHO) MPO BIOCHIPS PR3 BIOCHIPS	human human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)
FC 1201-1005-25 FC 1201-1010-25 FC 1201-2005-25 FC 1201-2010-25 FW1201-1005-25 FW1201-1010-25 FW1201-2005-25 FW1201-2010-25	EUROPLUS "Granulocyte Mosaic 25" EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cell nuclei (ANA), cANCA, pANCA cANCA, pANCA, EUOPattern glom. basement membrane (GBM), EUOPattern pANCA: myeloperoxidase (MPO), EUOPattern cANCA: proteinase 3 (PR3), EUOPattern	IgG	6 BIOCHIPS per field: granulocytes (EOH) HEp-2+granulocytes (EOH) granulocytes (HCHO) GBM BIOCHIPS MPO BIOCHIPS PR3 BIOCHIPS	human human human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)
FC 1201-1005-32 FC 1201-1010-32 FC 1201-2005-32 FC 1201-2010-32 FW1201-1005-32 FW1201-1010-32 FW1201-2005-32 FW1201-2010-32	EUROPLUS "Granulocyte Mosaic 32" EUOPattern cANCA, pANCA, GS-ANA, EUOPattern cANCA, pANCA, EUOPattern cell nuclei (ANA), cANCA, pANCA pANCA: myeloperoxidase (MPO), EUOPattern cANCA: proteinase 3 (PR3), EUOPattern	IgG	5 BIOCHIPS per field: granulocytes (EOH) granulocytes (HCHO) HEp-2+granulocytes (EOH) MPO BIOCHIPS PR3 BIOCHIPS	human human human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides)

Diagnostics for Indirect Immunofluorescence: EUROPattern

Order No.	Antibodies against	Ig Class	Substrate	Species	Format Slides x Fields
FC 1254-1005-50 FC 1254-1010-50 FC 1254-2005-50 FC 1254-2010-50	phospholipase A2 receptor (PLA2R) EUROPattern	IgG	transfected cells control transfection (2 BIOCHIPS per field)	EU 90 EU 90	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system)
FC 1501-1005 * FC 1501-1010 *	"Dermatology Screen", EUROPattern epidermis: prickle cell desmosomes epidermal basement membrane	IgG	oesophagus	monkey	10 x 05 (test system) 10 x 10 (test system)
FC 1510-1005-1 FC 1510-1010-1 FC 1510-2005-1 FC 1510-2010-1 FC 1510-1050-1 FC 1510-12010-1 FC 1510-2450-1 FW1510-1005-1 FW1510-1010-1 FW1510-2005-1 FW1510-2010-1 FW1510-1050-1	cell nuclei (ANA), EUROPattern cell nuclei (ANA)	IgG	HEp-2 cells liver (2 BIOCHIPS per field)	human monkey	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 50 (test system) 120 x 10 (test system) 24 x 50 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides) 10 x 50 (single slides)
FC 1510-1010-2 FW1510-1010-2	"ANA Mosaic 2" EUROPattern cell nuclei (ANA), EUROPattern mitochondria (AMA)	IgG	2 BIOCHIPS per field: HEp-2 cells kidney	human rat	10 x 10 (test system) 10 x 10 (single slides)
FC 1512-1005-1 FC 1512-1010-1 FC 1512-2005-1 FC 1512-2010-1 FC 1512-1050-1 FC 1512-12010-1 FC 1512-2450-1 FW1512-1005-1 FW1512-1010-1 FW1512-2005-1 FW1512-2010-1 FW1512-1050-1	cell nuclei (ANA), EUROPattern cell nuclei (ANA)	IgG	HEp-20-10 cells liver (2 BIOCHIPS per field)	human monkey	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 50 (test system) 120 x 10 (test system) 24 x 50 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides) 10 x 50 (single slides)
FC 1520-1005 FC 1520-1010 FC 1520-2005 FC 1520-2010 FC 1520-1050 FC 1520-12010 FW1520-1005 FW1520-1010 FW1520-2005 FW1520-2010 FW1520-1050	cell nuclei (ANA) EUROPattern	IgG	HEp-2 cells	human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 50 (test system) 120 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides) 10 x 50 (single slides)
FC 1522-1005 FC 1522-1010 FC 1522-2005 FC 1522-2010 FC 1522-1050 FW1522-1005 FW1522-1010 FW1522-2005 FW1522-2010 FW1522-1050	cell nuclei (ANA) EUROPattern	IgG	HEp-20-10 cells	human	10 x 05 (test system) 10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system) 10 x 50 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 05 (single slides) 20 x 10 (single slides) 10 x 50 (single slides)
FC 1572-1005 FC 1572-1010 FC 1572-2010 FW1572-1005 FW1572-1010 FW1572-2010	dsDNA EUROPattern	IgG	flagellates	Crithidia luciliae	10 x 05 (test system) 10 x 10 (test system) 20 x 10 (test system) 10 x 05 (single slides) 10 x 10 (single slides) 20 x 10 (single slides)
FC 1572-1005-1 FC 1572-1010-1 FC 1572-2010-1	dsDNA (sensitive) EUROPattern	IgG	flagellates	Crithidia luciliae	10 x 05 (test system) 10 x 10 (test system) 20 x 10 (test system)

Diagnostics for Indirect Immunofluorescence: EUROPattern

Order No.	Antibodies against	Ig Class	Substrate	Species	Format Slides x Fields
FC 1800-1010-1 FW1800-1010-1	"Mosaic Basic Profile 1 EUROPattern" cell nuclei (ANA), EUROPattern mitochondria (AMA) smooth muscles (ASMA)	IgG	3 BIOCHIPS per field: HEp-2 cells kidney stomach	human rat rat	10 x 10 (test system) 10 x 10 (single slides)
FC 1800-1010-2 FC 1800-2010-2	"Mosaic Basic Profile 2", EUROPattern cell nuclei (ANA), LKM mitochondria (AMA), LKM smooth muscles (ASMA)	IgG	3 BIOCHIPS per field: liver kidney stomach	rat rat rat	10 x 10 (test system) 20 x 10 (test system)
FC 1800-1010-3 FC 1800-2005-3 FC 1800-2010-3	"Mosaic Basic Profile 3", EUROPattern cell nuclei (ANA), EUROPattern cell nuclei (ANA) mitochondria (AMA) smooth muscles (ASMA)	IgG	4 BIOCHIPS per field: HEp-2 cells liver kidney stomach	human monkey rat rat	10 x 10 (test system) 20 x 05 (test system) 20 x 10 (test system)
FC 1805-1010-13 FW1805-1010-13	"Mosaic Basic Profile 13B EUROPattern" cell nuclei (ANA), EUROPattern cell nuclei (ANA), LKM mitochondria (AMA), LKM smooth muscles (ASMA)	IgG	4 BIOCHIPS per field: HEp-2 cells liver kidney stomach	human rat rat rat	10 x 10 (test system) 10 x 10 (single slides)



Fluorescence-Labelled Antibodies: Fluorescein (FITC) for IIFT (EUROLabLiquidHandler)

Order No	Antiserum	Format
AF 101-0546	FITC-labelled anti-human IgA (goat)	5 x 46.0 ml (ready for use) in EUROTank
AF 102-0546	FITC-labelled anti-human IgG (goat)	5 x 46.0 ml (ready for use) in EUROTank
AF 103-0546	FITC-labelled anti-human IgM (goat)	5 x 46.0 ml (ready for use) in EUROTank
AF 106-0546	FITC-labelled anti-human IgAGM (IgA + IgG + IgM goat)	5 x 46.0 ml (ready for use) in EUROTank
AF 302-0546	FITC-labelled anti-human IgG (goat) primate absorbed	5 x 46.0 ml (ready for use) in EUROTank
AF 601-0546	FITC-labelled anti-human IgA (goat) with Evans Blue	5 x 46.0 ml (ready for use) in EUROTank
AF 602-0546	FITC-labelled anti-human IgG (goat) with Evans Blue	5 x 46.0 ml (ready for use) in EUROTank
AF 603-0546	FITC-labelled anti-human IgM (goat) with Evans Blue	5 x 46.0 ml (ready for use) in EUROTank
AF 606-0546	FITC-labelled anti-human IgAGM (IgA + IgG + IgM goat) with Evans Blue	5 x 46.0 ml (ready for use) in EUROTank
AF 612-0546	FITC-labelled anti-human C3c (rabbit) with Evans Blue	5 x 46.0 ml (ready for use) in EUROTank
AF 702-0546-2	FITC-labelled anti-human IgG (goat) with propidium iodide for EUROPattern	5 x 46.0 ml (ready for use) in EUROTank

Diagnostics for Indirect Immunofluorescence: EUROLabLiquidHandler

Order No.	Antibodies against	Ig Class	Substrate	Species	Format Slides x Fields
FA 1020-12010-1	pancreas islets	IgG	pancreas islets (three 1 x 1 mm BIOCHIPS per field)	monkey	120 x 10 (test system)
FA 1111-12010-8	"Neurology Mosaic 8" Yo, Hu, Ri, CV2, Ma, amphiphysin medullated nerves non-medullated nerves pancreas islets	IgAGM	4 BIOCHIPS per field cerebellum nerves intestinal tissue pancreas	monkey monkey monkey monkey	120 x 10 (test system)
FA 1201-12010-4	"Granulocyte Mosaic 4" cANCA, pANCA, GS-ANA cANCA, pANCA cell nuclei (ANA)	IgG	3 BIOCHIPS per field: granulocytes (EOH) granulocytes (HCHO) HEp-2 cells	human human human	120 x 10 (test system)
FA 1201-12010-13 FA 1201-2450-13	"Granulocyte Mosaic 13" cANCA, pANCA, GS-ANA cell nuclei (ANA), cANCA, pANCA cANCA, pANCA	IgG	3 BIOCHIPS per field: granulocytes (EOH) HEp-2+granulocytes (EOH) granulocytes (HCHO)	human human human	120 x 10 (test system) 24 x 50 (test system)
FC 1201-12010-13	"Granulocyte Mosaic 13", EUROPattern cANCA, pANCA, GS-ANA, EUROPattern cell nuclei (ANA), cANCA, pANCA cANCA, pANCA, EUROPattern	IgG	3 BIOCHIPS per field: granulocytes (EOH) HEp-2+granulocytes (EOH) granulocytes (HCHO)	human human human	120 x 10 (test system)
FA 1510-12010-1 FA 1510-2450-1	cell nuclei (ANA global test)	IgG	HEp-2 cells liver (2 BIOCHIPS per field)	human monkey	120 x 10 (test system) 24 x 50 (test system)
FC 1510-12010-1 FC 1510-2450-1	cell nuclei (ANA), EUROPattern cell nuclei (ANA)	IgG	HEp-2 cells liver (2 BIOCHIPS per field)	human monkey	120 x 10 (test system) 24 x 50 (test system)
FA 1512-12010-1 FA 1512-2450-1	cell nuclei (ANA global test)	IgG	HEp-20-10 cells liver (2 BIOCHIPS per field)	human monkey	120 x 10 (test system) 24 x 50 (test system)
FC 1512-12010-1 FC 1512-2450-1	cell nuclei (ANA), EUROPattern cell nuclei (ANA)	IgG	HEp-20-10 cells liver (2 BIOCHIPS per field)	human monkey	120 x 10 (test system) 24 x 50 (test system)
FA 1520-12010	cell nuclei (ANA)	IgG	HEp-2 cells	human	120 x 10 (test system)
FC 1520-12010	cell nuclei (ANA) EUROPattern	IgG	HEp-2 cells	human	120 x 10 (test system)
FA 1800-12010-2	"Mosaic Basic Profile 2" cell nuclei (ANA), LKM mitochondria (AMA), LKM smooth muscles (ASMA)	IgG	3 BIOCHIPS per field: liver kidney stomach	rat rat rat	120 x 10 (test system)
FA 1914-12010 A FA 1914-12010 G	endomysium	IgA IgG	liver	monkey	120 x 10 (test system) 120 x 10 (test system)



Further Reagents for EUROIMMUN IIFT (EUROLabLiquidHandler)

Order No.	Reagent	Format
ZF 1020-0530	sample buffer (IIFT)	5 x 30.0 ml (ready for use) in EUROTank
ZF 1020-0530-2	sample buffer 2 (IIFT) (only for the Anti-dsDNA sensitive IIFT)	5 x 30.0 ml (ready for use) in EUROTank
ZF 1020-0530-3	sample buffer 3 (IIFT) (only for the Anti-Borrelia IIFT IgG)	5 x 30.0 ml (ready for use) in EUROTank
ZF 1101-05100	PBS-Tween (IIFT)	5 x 100.0 ml (ready for use) in EUROTank
ZF 1121-0530	CMV buffer (IIFT)	5 x 30.0 ml (ready for use) in EUROTank

Accessories for EUROLabLiquidHandler

Order No	Item	Format
ZG 0009-0505	Setup Clean	500 ml
ZG 0862-10100	EUROLabLiquidHandler system liquid concentrate	10 x 100 ml (100-fold concentrate)
ZG 0870-0180	EUROTank, colour: black, consumable EUROLabLiquidHandler	80 pieces
ZG 0871-0180	EUROTank, colour: natural, consumable for EUROLabLiquidHandler	80 pieces

Other Items for EUROIMMUN IIFT (EUROLabLiquidHandler)

Order No.	Item	Format
ZZ 9999-0105-11	coded reagent tray with data matrix code for slides with 5 fields	
ZZ 9999-0110-12	coded reagent tray with data matrix code for slides with 10 fields	
ZZ 9999-0150-13	coded reagent tray with data matrix code for slides with 50 fields	