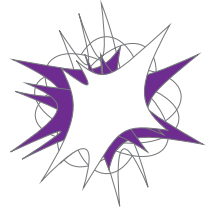


YOUR
GLOBAL
PARTNER
IN
DIAGNOSTICS



virion\serion

Immunomat™ *TWIN*system



TWO in ONE:
Fully automated SERION ELISA analyser
and SERION Multianalyt™ test processor

serion



multianalyt™

Immunomat™ TWINsystem BASEplus BASE



The **Immunomat™ TWINsystem** is a 4-Plate automat and allows the processing of SERION ELISA *classic* and SERION Multianalyt™ immunoassays. The **Immunomat™** is consequently well suited for the application of two complementing technologies in *in-vitro* diagnostics.

Immunomat™ TWINsystem

The **Immunomat™ TWINsystem** is a new benchtop automat with integrated pipetting system, plate transporter and ELISA reader. The system is equipped with an ELISA washer as well as a vacuum washing station for filter plates. Four plate positions and incubators with agitation function are integrated to guarantee an efficient workload of the instrument.

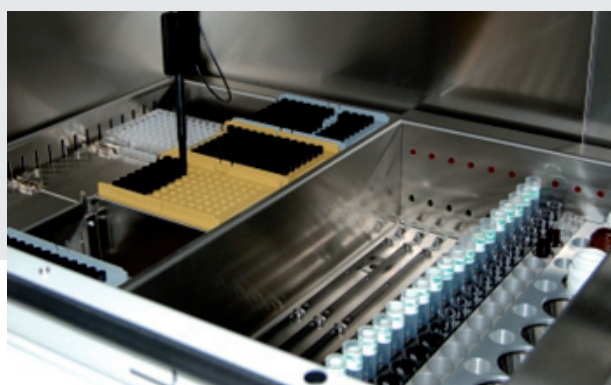
Immunomat™ BASEplus / BASE

The fully automated ELISA analyser **Immunomat™ BASEplus** and **Immunomat™ BASE** are able to process up to seven microtitre plates simultaneously. In contrast to **Immunomat™ TWINsystem**, a vacuum washer is not included. As a consequence, processing of SERION Multianalyt™ immunoassays is not possible. However, the **Immunomat™ BASEplus** can be easily upgraded to **Immunomat™ TWINsystem**.



Fully automated ELISA Analyser

The **Immunomat™** attention to detail includes a barcode identification system for racks, reagents and microtitre plates and allows the processing of up to 16 different assays per plate. The easy access to buffers and reagents, level sensors for all fluid containers and software-controlled tip management system guarantee customer convenient handling.



Liquid Handling

immunoassays are subsequently analysed by a flow cytometer.



Barcoded SERION ELISA *classic* and SERION Multianalyt™ kit components

SERION Multianalyt™ Processor

The **Immunomat™ TWINSYSTEM** allows the automated processing of SERION Multianalyt™ immunoassays. The innovative technology based on the principle of flow cytometry allows the simultaneous analysis of multiple parameters in a small sample volume. SERION Multianalyt™ and SERION ELISA *classic* immunoassays are two complementing technologies for *in-vitro* diagnostics, which can be simultaneously processed with **Immunomat™ TWINSYSTEM**. Samples of processed SERION Multianalyt™

Evaluation of Immunoassays

The **Immunomat™** is evaluated for antibody and antigen detection in serum, plasma and cerebrospinal fluid (CSF), if necessary, as well as for avidity determination with SERION ELISA *classic*, SERION ELISA *antigen* and SERION Multianalyt™ immunoassays.

Immunomat™ Software

The **Immunomat™** software allows the generation of assay protocols, panel definitions and worklists for routine diagnostics. Connection to laboratory software systems is possible via bi-directional ASTM interface. Evaluation of SERION ELISA tests is carried out conveniently by using the **Immunomat™** software. For the analysis of SERION Multianalyt™ immunoassays an external software is available for our customers.

Comparison Immunomat™ TWINSYSTEM / BASEplus / BASE

Automat	Immunomat™ <i>BASE</i>	Immunomat™ <i>BASEplus</i>	Immunomat™ <i>TWINSYSTEM</i>
Fully automated SERION ELISA analyser	yes	yes	yes
Hardware for upgrade to Immunomat™ TWINSYSTEM pre-installed	no	yes	
Vacuum washer station	no	upgrade possible	yes
Multianalyt™ processor	no	upgrade possible	yes

Technical data of Immunomat™ *TWIN*system

Instrument	
W x D x H	114 cm x 156 cm x 100 cm
Weight	130 kg
Mains voltage	110 - 260 Universal a.c. Input
Temperatur of environment	5 - 40 °C
Max. number of plates	Up to 4 plates simultaneously
Barcode	Barcode identification of samples, reagents and microtitre plates
Barcodelaser	Scanner for racksystem
Max. number of samples	Max. 100 tubes (max. average 16 mm)
Reagents	SERION racks
Dilution positions	Up to 4 dilution plates
Max. number of tip racks	Up to 5 tip racks with 300 μ l or 1100 μ l disposable tips
Pipetting system	
Pipetting system	Liquid pipettor for disposable tips
Volumes min. / max.	For 300 μ l tips 10 - 300 μ l, for 1100 μ l tips 301 - 1000 μ l
Accuracy	< 15 % CV for 25 μ l volumes; < 5 % CV for 100 μ l volumes
Precision	< 5 % CV for 25 μ l volumes; < 2,5 % CV for 100 μ l volumes
Incubators	
Incubation capacity	4 independent chambers with agitation function
Incubation range	Between RT up to max. 50 °C with temperature control
Temperature	+/- 2 °C (determined in the plate with 100 μ l Aqua)
Washer	
Capacity of buffers	Max. 4 positions
Dispense volume	200 - 2500 μ l / well
Residual volume	< 2,5 μ l in U-shaped bottom; < 4 μ l in flat bottom
Fluid alarms	Automated warning in case of lack of reagents or filled waste bag.
Photometer	
Spectral range	400 - 700 nm
Dynamic range	-0,100 OD up to 3,00 OD
Accuracy	+/- 0,005 OD or 2,5 %
Reading time / 96 wells	< 15 sec.
Number of filters	Up to 8 filter positions

Highlights of Immunomat™ **TWINS**system

- *TWO in ONE:*
Fully automated SERION ELISA test analyser and SERION Multianalyt™ test processor.
- Washer for 96-well ELISA MTPL,
Vacuum washer for 96-well MTPL.
- Parallel processing of SERION ELISA and SERION Multianalyt™ immunoassays.
- Validated for antibody detection in serum, plasma or cerebrospinal fluid (CSF) with SERION ELISA *classic* and SERION Multianalyt™ immunoassays.
- Validated for avidity determination in serum, plasma or cerebrospinal fluid (CSF) with SERION ELISA *classic*.
- Validated for antigen detection with SERION ELISA *antigen*.
- Short loading times with reload function for patient samples, reagents and microtiter plates.
- Processing of up to 16 different assays per plate.
- Easy access to buffers and reagents.
- Level sensors for fluid containers with automated warning in case of lack of reagents or filled waste bag.
- Multishot dispenser function.
- Memory function for tip racks.
- Barcode identification of samples, reagents and microtitre plates.
- 2D hand barcode scanner for parameters of quality control certificates.
- Clot detection.
- Walk away funktion.
- Fast and quantitative evaluation of SERION ELISA *classic* tests.
- Bi-directional connection to laboratory software systems via ASTM interface.



Order Information

Immunomat™ **TWINSsystem**

Immunomat™ **BASEplus** (Vacuum washer station upgradeable)

Immunomat™ **BASE** (Vacuum washer station not upgradeable)

Order Nr.: VT 022

Order Nr.: VT 021

Order Nr.: VT 020

Please visit our website www.virion-serion.com for more information on our products.

Immunomat™ *TWIN*system

Fully automated SERION ELISA Analyser and
SERION Multianalyt™ Processor



Immuno*flow*
SERION Multianalyt™ Analyser

The perfect combination for
SERION Multianalyt™ technology:
Immunomat™ *TWIN*system and Immuno*flow*

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