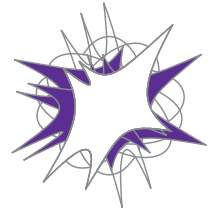


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**Immunomat™**  
**Fully automated SERION ELISA analyzer**

# Immunomat™



The **Immunomat™** is a 4-plate benchtop automat with integrated pipetting system, plate transporter, ELISA washer and reader. Four plate positions and incubators with agitation function to guarantee an efficient workload of the instrument allowing the processing of up to seven microtiter plates. Of course, the system is in compliance with the *in-vitro* diagnostic directive 98/79/EC.

## Fully automated ELISA Analyzer

The **Immunomat™** attention to detail includes a barcode identification system for racks, reagents and microtiter 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 a software-controlled tip management system guarantee customer convenient handling.



Liquid Handling

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* and SERION ELISA *antigen* immunoassays.



Barcoded SERION ELISA Kit Components

## 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 the bi-directional ASTM interface. Evaluation of SERION ELISA tests is carried out fast and conveniently by using the **Immunomat™** software.

## Specifications of Immunomat™

| <b>Instrument</b>          |   |
|----------------------------|---|
| W x D x H                  | 156 cm x 114 cm x 100 cm (when front window and drawer opened)          |
| Weight                     | 130 kg  |
| Mains voltage              | 110 - 260 universal a.c. input  |
| Temperature of environment | 5 - 40 °C   |
| Max. number of plates      | Up to 7 microtiter plates   |
| Barcode                    | Barcode identification of samples, reagents and microtiter plates       |
| Barcode laser              | Scanner for racksystem  |
| Max. number of samples     | Max. 240 samples or 180 samples, 10 reagents, 10 controls               |
| Reagents                   | SERION racks  |
| Dilution positions         | Up to 4 dilution plates   |
| Max. number of tip racks   | Up to 5 tip racks with 300 µl or 1100 µl disposable tips                |
| <b>Pipetting System</b>    |   |
| Pipetting system           | Liquid pipettor for disposable tips                                     |
| Volumes min. / max.        | For 300 µl tips 10 - 300 µl, for 1100 µl tips 301 - 1000 µl             |
| Accuracy                   | < 15 % CV for 25 µl volumes; < 5 % CV for 100 µl volumes                |
| Precision                  | < 5 % CV for 25 µl volumes; < 2.5 % CV for 100 µl volumes               |
| <b>Incubators</b>          |   |
| 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 µl aqua dest.)               |
| <b>ELISA Washer</b>        |   |
| Capacity of buffers        | Max. 4 positions  |
| Dispense volume            | 200 - 2500 µl / well  |
| Residual volume            | < 2.5 µl in U-shaped bottom; < 4 µl in flat bottom                      |
| Fluid alarms               | Automated warning in case of lack of reagents or filled waste container |
| <b>Photometer</b>          |   |
| 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 (Standard 405, 620 nm)                         |

## Highlights of Immunomat™

- **Fully automated SERION ELISA analyzer** for medium to high throughput applications
- Washer for 96-well ELISA microtiter plates
- Validated for **antibody detection** in serum, plasma or cerebrospinal fluid (CSF) with SERION ELISA *classic* immunoassays
- Validated for **avidity determination** with SERION ELISA *classic* immunoassays
- Validated for **antigen detection** with SERION ELISA *antigen* immunoassays
- **Short loading times** with reload function for patient samples, reagents and microtiter plates
- Processing of **up to 16 different assays per plate**
- **Level sensors for fluid containers** with **automated warning** in case of **lack of reagents or filled waste container**
- **Easy access to buffers and reagents**
- **Multishot dispenser function** and **memory function for tip racks**
- **Barcode identification** of samples, reagents and microtiter plates
- **2D hand barcode scanner for parameters of quality control certificates**
- **Clot detection**
- **Walk-away functionality**
- Fast and **quantitative evaluation** of SERION ELISA immunoassays
- **Bi-directional connection to laboratory software systems** via ASTM interface

## Order Information of Immunomat™ and Lab Ware

### Immunomat™

|  |                          |
|--|--------------------------|
|  | <b>Order Nr.: VT 020</b> |
| Pipetting tips, 300 $\mu$ l, 18 x 960 tips           | Order Nr.: VT 111        |
| Pipetting tips, 1100 $\mu$ l, 10 x 960 tips          | Order Nr.: VT 112        |
| Plastic bottles, white, with cap, 35 ml, 100 pieces  | Order Nr.: VT 113        |
| Plastic bottles, yellow, with cap, 35 ml, 100 pieces | Order Nr.: VT 114        |
| Plastic bottles, white, with cap, 50 ml, 100 pieces  | Order Nr.: VT 115        |
| Glas bottles, with cap, 2.5 ml, 323 pieces           | Order Nr.: VT 116        |
| Glas bottles, with cap, 2.5 ml, 30 pieces            | Order Nr.: VT 116-30     |
| Waste bags, 10 pieces                                | Order Nr.: VT 051        |

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