EliA™ on Phadia® 250

Automation and quality in autoimmunity testing
**EliA™ on Phadia® 250 – the Future in Autoimmunity Testing – Now!**

**High Throughput**
- 350 or more tests per day
- additional throughput with over-night runs
- results in one-minute intervals
- continuous access for samples

**Highly Automated**
- true walk-away
- automatic „wake-up“ and shut down
- barcode reading for all reagents and samples to minimise errors
- remote monitoring for easy troubleshooting
- primary and secondary tubes accepted

**Flexibility**
- patient-specific test profiles
- autoimmunity and allergy in one run
- small runs cost-efficient
- priority function for urgent samples
- reflex testing

**Quality**
- accurate, standardised and reproducible results
- custom-designed, reliable technology dedicated to antibody testing
- reagents produced under GMP conditions
- regular, system-specific quality control with Quality Club™ EliA™ Autoimmunity
The EliA™ System

- **Time for the essentials**

Phadia® 250 is a highly automated system for autoimmunity (EliA™) and allergy (ImmunoCAP™) testing. Designed to assist laboratory workflow by reducing hands-on time, it processes samples from test request to final result with minimal intervention.

**Barcode identification** of all reagents, mainframe worklist downloads or barcode/manual sample identification combine with on-board dilution to reduce manual handling and minimise errors.

Over-night runs with automatic shut down after the last sample and the automated „wake-up“ give the option of increasing the available working hours of the instrument.

All reagents can be stored on board to minimise loading times. **User-friendly operation** makes test handling and data processing simple and convenient.

- **Cost efficient and flexible**

The modular EliA™ system allows for patient-specific, economical routine use. One standard curve is used for all analytes within a method and calibration is required only monthly. The calibration curve is generated and controlled as the instrument runs and raw data for calibrators, controls and patient samples is always accessible, making the entire process transparent and understandable for the user.

For every sample, an individual test panel can be compiled. Single samples can be run immediately and prioritised if the results are needed urgently and reflex testing from EliA™ Symphony to specific ANA analytes is possible.

**Wide measuring ranges** and reproducible results optimise throughput and reduce the secondary-level testing required. To improve the efficiency of the laboratory, autoimmunity and allergy testing can be performed in the same run. The same-day result turnaround system provides the best possible service for clinicians and patients.

- **Intuitive, user friendly handling**

The unique Phadia® Information Data Manager (IDM) software allows the integration of several Phadia® instruments (including Phadia® 100 Phadia® 1000) into one network.

IDM manages all results, an in-depth quality control programme as well as the total laboratory stock. Additionally, IDM has a high-capacity patient database and allows a detailed documentation of results.

On the instrument itself, logical software accessed via a built-in touch screen, makes the handling of the system very easy.
Maximum specificity and sensitivity in autoimmunity testing

To ensure the highest quality of our autoantibody tests, it is crucial to use very pure, conformationally-correct antigens. We use human recombinant proteins and synthetic peptides whenever it increases antigenicity and thus sensitivity and specificity.

The polystyrene EliA™ Wells are precoated with defined antigens. In the testing process, sample material is pipetted into the EliA™ well and specific autoantibodies present can bind to the antigen. This binding is detected by the addition of an enzyme-labelled conjugate followed by its substrate. The resulting fluorescence is detected by the built-in fluorometer and expressed in EliA™ Units or International Units, where appropriate.

Automation for walk-away productivity

The Phadia® 250 system is highly automated, requiring minimal hands-on time.

A typical work-day schedule for EliA™ on Phadia® 250 is shown below.

EliA™ has been specifically designed to offer clinically relevant results in autoimmunity testing while meeting the laboratory demands of efficient and cost-effective workflow. As specialists in autoimmunity, we offer you all the benefits of our knowledge and experience through our high quality products and our technical and scientific support.
Stop Solution and Development solution, 2 bottles each.

Cooled conjugate compartment for up to 6 conjugate bottles.

Sample Diluent (6 bottles) and Dilution Plates (2x96 wells) for on-board dilution of samples.

Strip tray for up to 8 Calibrator Strips and/or Curve Control Strips.

The moveable table includes the containers for wash solution, rinse solution and for solid and fluid waste.

Loading Tray for EliA™ Well and ImmunoCAP™ Carriers with 38 stat positions additional to the positions in the storage chamber.

Cooled, barcode-controlled storage chamber for 180 EliA™ Well / ImmunoCAP™ Carriers.

Positive identification and position sensing system for reagents and samples.

Sample racks (5), each holds up to 10 patient and quality control samples.

Logical and intuitive system management via touchscreen; a full feature PC and printer are also included in the system.
**Technical Information**

- **Size:** 127 x 71 x 93 cm (w x d x h) table top
- **Weight:** 220 kg
- **Power supply:** 100, 120, 220, 240 V / 50 - 60 Hz / 1.2 kVA
- **Environmental temperature:** 18 - 32°C
- **Data management:** Phadia® Information Data Manager (IDM), full feature PC connected
- **Operating system:** Windows® 2000 / Windows® XP
- **Mainframe connection protocol:** ASTM, MasterCAP™ and Phamas
- **Clustering:** optional
- **Solid and liquid waste handling:** self contained or direct outlet connection
- **Samples:** primary and secondary tubes; serum or plasma

**EliA™ Tests**

**Connective Tissue Diseases**
- EliA™ CTD Screen 4 x 12 tests 14-5596-01
- EliA™ Symphony 4 x 12 tests 14-5508-01
- EliA™ dsDNA 4 x 12 tests 14-5500-01
- EliA™ Sm 4 x 12 tests 14-5502-01
- EliA™ Rib-P 2 x 12 tests 14-5501-01
- EliA™ U1RNP 4 x 12 tests 14-5511-01
- EliA™ RNP70 4 x 12 tests 14-5503-01
- EliA™ Ro 4 x 12 tests 14-5504-01
- EliA™ La 4 x 12 tests 14-5505-01
- EliA™ CENP 2 x 12 tests 14-5506-01
- EliA™ Jo-1 2 x 12 tests 14-5507-01

**Rheumatoid Arthritis**
- EliA™ CCP 4 x 12 tests 14-5515-01
- EliA™ RF IgM 4 x 12 tests 14-5600-01
- EliA™ RF IgA 4 x 12 tests 14-5601-01

**Antiphospholipid Syndrome**
- EliA™ Cardiolipin IgG 4 x 12 tests 14-5529-01
- EliA™ Cardiolipin IgM 4 x 12 tests 14-5530-01
- EliA™ β2 Glycoprotein I IgG 4 x 12 tests 14-5532-01
- EliA™ β2 Glycoprotein I IgM 4 x 12 tests 14-5533-01

**Vasculitis and GBM**
- EliA™ PR3 4 x 12 tests 14-5536-01
- EliA™ MPO 4 x 12 tests 14-5513-01
- EliA™ GBM 2 x 12 tests 14-5514-01

**Celiac Disease**
- EliA™ Celikey IgA 4 x 12 tests 14-5517-01
- EliA™ Celikey IgG 4 x 12 tests 14-5518-01
- EliA™ Gliadin® IgA 4 x 12 tests 14-5538-01
- EliA™ Gliadin® IgG 4 x 12 tests 14-5539-01

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