Automated Workstation Pre-NAT II

Fully automated system for nucleic acid extraction and PCR set-up

- **Fully automated system for nucleic acid extraction for up to 96 primary samples and pipetting of up to 288 PCRs per run**

- **Established system for nucleic acid extraction based on magnetic particles**

- **Integrated cooling unit for PCR reagents and plates and for automated preparation of PCR master mixes**

- **Versatile further use of PCRs possible; optimised for EUROArray and EUROReal-Time workflows**

- **Precise pipetting with disposable filter tips and efficient and resource-friendly dispensing system for extraction reagents**

- **User-friendly instrument software with graphic visualisation of all processes**

- **Excellent service from EUROIMMUN – your contact for everything from test systems to instruments and software**

The **Automated Workstation Pre-NAT II** is a system for fully automated nucleic acid extraction and subsequent pipetting of PCRs. The extraction of nucleic acids is carried out using magnetic particles. These are transferred successively into the automatically dispensed reagents by means of magnetisable metal rods. The liquid handling module then automatically pipettes the required PCRs from the isolated nucleic acids and the PCR reagents stored cooled in the instrument.

System

Sample capacity .... up to 96 samples
Sample tubes.................................. outer diameter of 12–16 mm, height up to 100 mm
Sample material .... e.g. blood, smears, urine, hair and skin samples
Barcode identification .... automated for sample tubes with all commercial barcode types
Automatic sterilisation.................... UV light

Pipetting unit

Pipettors .... 4 pipettors for disposable pipette tips, with liquid level detection
Pipetting volume .... 4–800 µl, in increments of 1 µl
Accuracy.. measurement deviation ± 5 % ($\geq 4\,µl$–$\leq 20\,µl$); ± 2 % ($> 20\,µl$–$\leq 800\,µl$)
Precision .... CV ≤ 5 % ($\geq 4\,µl$–$\leq 20\,µl$); CV ≤ 2 % ($> 20\,µl$–$\leq 800\,µl$)
Reagent positions........................... for up to 28 PCR reagents
Cooling of reagents........................ to 2–8 °C
Test capacity .... up to 3 x 96 PCRs per run, up to 3 different pipetting schemes per run

Extraction unit

Extraction kit .... Pre-NAT II NA EU Kit (ZM 9102-0960; RUO) for 960 reactions
Method .... extraction using magnetic particles
Separation .... magnetisable metal rods with disposable sleeves, rotation platform
Dispensing module......................... 200 µl–10 ml; measurement deviation of ≤ 12 %
Liquid level detection .... for reagents and liquid waste

Characteristics

Operating system .... Microsoft Windows 10 Pro (64 bits)
Communication .... with EURORealTime Analysis software via XML
Language....................................... English
Dimensions/Weight .... 1510 mm × 845 mm × 1690 mm (W × D × H) / approx. 350 kg
Power supply .... 220 V, 50 Hz, 3150 VA incl. PC and cooling unit

Subject to changes