

NEW

MDx

SENTiNAT[®] X48

Molecular Diagnostics

Automatic nucleic acids extraction and PCR setup system



SENTINEL
DIAGNOSTICS

SENTiNAT® X48

Automatic nucleic acids extraction and PCR setup system

The SENTiNAT® X48 is a compact workstation for human, bacteria and viral nucleic acids extraction and PCR setup able to process up to 48 samples in full automation. Using magnetic beads technology, the system is designed to extract DNA and RNA from several type of primary samples. With internal and external barcode readers and the possibility to load primary tubes, the sample full traceability is ensured. Once extraction phase is completed, the system can setup the PCR and directly prepare the worklist for the most common Real Time instruments. The internal software with user-friendly interface and many safety and decontamination tools make this platform perfect to streamline molecular diagnostics testing with many applications facing the increasing demand for efficiency.

System specifications:

Throughput	Up to 48 samples per run
Sample type	<ul style="list-style-type: none"> • Previously extracted DNA or RNA • Swabs • Blood, serum, plasma, saliva, urine and other body fluids, stool
Reagents	Sentinel NA Extraction kits and Sentinel PCR reagents kits
Assay flexibility	Other liquid handling protocols (e.g. aliquoting, serial dilution)
Extraction method	Magnetic beads
Magnetic tool	24 parallel magnets
Volume range	1 – 1000 ml with precision CV ≤ 0.2%
Operating volumes	<ul style="list-style-type: none"> • Minimization of dead volumes according to consumables • Customization of starting volume and elution volume
Processing capacity	Depending on kit and protocol
Traceability	Barcode reader for samples and reagents
Connectivity	<ul style="list-style-type: none"> • Bidirectional interface with the hospital laboratory information system • Connection to the most common thermal cyclers for the Real-Time PCR plate design
Dimensions	916 mm (W) x 789 mm (L) x 848 mm (H)
Weight	100 kg
Working conditions	<ul style="list-style-type: none"> • Temperature 18°C (min) - 28°C (max) • Humidity 30-80% RH at 30°C • Altitude up to 2000 m – indoor use

Specifications subject to change without notice.

Benefits of the system:

- From sample to PCR setup
- Full traceability for every sample
- Compatible with different primary tubes
- High flexibility in the protocols type
- Easy-to-use by instrument touch display
- Level and clot sensors for correct sampling
- Including thermoshaker, heating - cooling unit, purification system with vacuum pump
- Decontamination with UV lamp (254 nm)
- Optimized for STAT-NAT® kits



Ref.	Description
1N048S	STATNAT® X48 Automatic nucleic acids extraction and PCR setup system

List of consumables available on request.

Sentinel CH. SpA

Via Robert Koch, 2 • 20152 Milan - Italy
Phone: +39 02 3455141 • Fax: +39 02 34551464
sentinel@sentinel.it • www.sentinel diagnostics.com



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