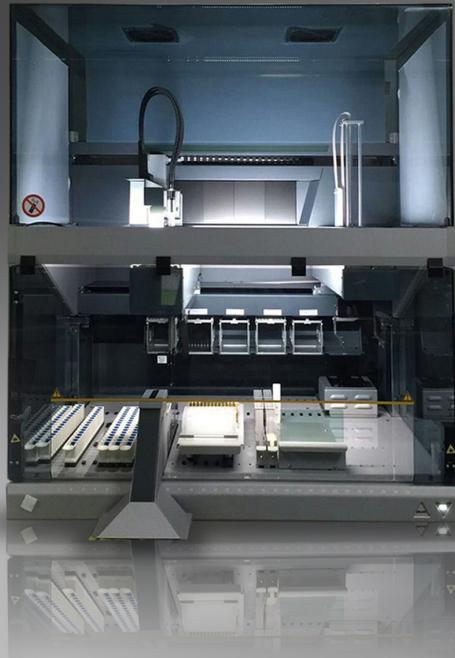


NEW GENERATION STARTS **INTRODUCING**

FULLY AUTOMATED NUCLEIC ACID EXTRACTION SYSTEM

NATCH S



 **Sansure**
for better PCR solutions

L INTRO

Natch S is a full-automatic nucleic acid extraction system of Sansure. Powered by a professional liquid handling station, Sansure designs a top-throughput, top-precision, and top-efficiency system that allows a complete workflow of sample pretreatment and nucleic acid extraction. Through combining precise micro pipetting, highly efficient paramagnets technology, and comprehensive contamination control in one, Natch S is really easy to operate. Its one-button operation can furthest free your hands.

1 FEATURES

- One Robot doing two Robots' job
 - 96 samples throughput ≤ 130 min. (fast HBV, fast HPV, etc. at less than 40 min.)
 - 3 batches (96 samples/batch \times 3) per day per unit
 - save lab space



- Super optimized workflow
 - Room temperature lysis avoiding heating aerosol contamination
 - 1 time washing for organic & inorganic together
 - No elution of the beads
 - $\geq 25\%$ consumables saved compared to all others



- Multi-functional and flexible
 - as many as 16 panels including kits on Magnetic beads like HBV, HCV, etc. and kits on One-tube platform like fast HBV, HPV, etc. (Mar. 2016)
 - as many as 6 parameters simultaneous process (STDs, HPV, etc)
 - as many as 14 PCR thermocyclers' validation with Natch S including ABI, Agilent, Biorad, Sansure, etc. (Mar. 2016)
- Ultra-stability
 - easy operated system
 - low maintenance (once a year after installation)

2 PERFORMANCE

ONE-STOP COMMON PLATFORM CREATES A MODERN MOLECULAR LAB

- **Automated workflow:**

Automated liquid handling and project processing, allows high-throughput extraction.

- **Common platform:**

High efficient sample handling

Available for multiple projects

- **Precise test result:**

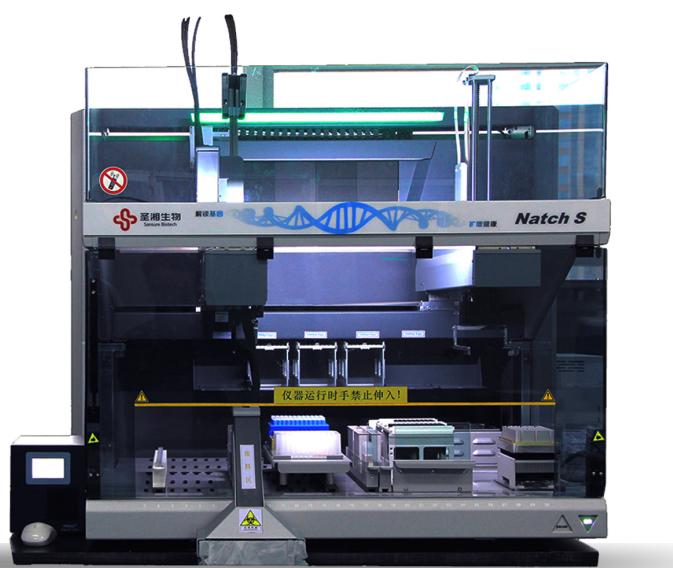
Superparamagnets technology combines high efficient PCR amplification system, and a whole-process monitoring for internal controls, make precise tests.

- **Reliable operation:**

International leading precise micro pipetting, along with special designed whole-process anti-contamination technology

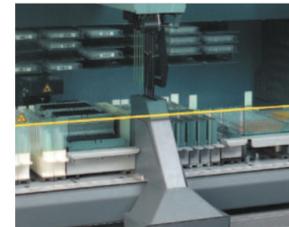
- **Professional service:**

24/7 professional support and service, to ensure a round-a-clock operation.

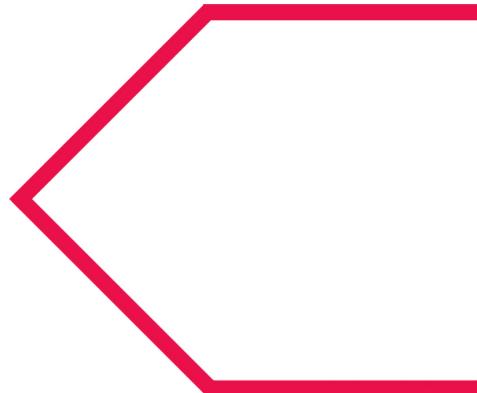


ONE-STOP PLATFORM FOR SAMPLE PROCESSING, EXTRACTION, AND PCR REACTION

- International leading precise micro pipetting
4-channel pipette independently positioning
Air gap anti-contamination technology
Repeatability: CV≤0.4% (liquid volume≥50ul)
Graphite conductive tip, cLLD + pLLD, allows precise positioning, and clot preventing



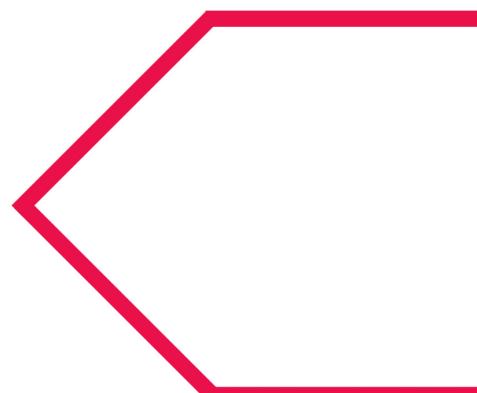
- Numerical positioning control
X/Y/Z three-dimensional positioning
Operationg error: <0.1mm,



- Superparamagnets technology
Using the finest superparamagnetic beads
Nucleic acid lysis in room temperature, one time washing, no elution
Patented three-dimensional permanent magnetic field, ensure a high efficient enrichment of the target.



- High-load sample rack for multiple sample types
6 x 16 sample rack, available for multiple types of sample tubes 6 stand-by tip shelves,



- Anti-contamination designs
Anti-contamination layout
Disinfection of effluent
Disinfection by UV light
Tips unloading at low position



3

SPECIFICATION

Product model: S11A

Samples supported: Serum, plasma, swab, etc.

Consumable supported: All size blood tubes, 1.5ml/2.0ml centrifuge tubes,

*Cryogenic Vials Sample capacity:96 wells (6*16)*

Pipetting volume:1~1000ul

Pipetting tip:4-channel tip

Repeatability:1ul:CV≤4.0%;50ul:CV≤0.4%

Extraction methodology: superparamagnetic beads (MB); one tube (OT)

Magnetic field: permanent magnet

Extraction time (96samples): MB: 120 min; OT: 40 min

Operating system: Microsoft Window XP /Vista/7

*Dimensions: 782mm*1075mm*875mm (D*L*H)*

Communication: USB, RS232, LIS

Weight: 210 Kg

Operating temperature: 15~32°C

Ambient humidity: 30%~80%

Application Field

Laboratory medicine of large general hospitals Entry-Exit Inspection and Quarantine Bureau

Independent Lab Disease Control and Prevention Center

Blood center Scientific research institution

WORKING WITH SANSURE'S DIAGNOSTIC KITS

PERFORMANCE PARAMETERS	SANSURE HBV [MAGNETIC BEADS]	SANSURE HBV [ONE TUBE]	SANSURE HCV
SENSITIVITY	10 IU/ML	100 IU/ML	25IU/ML
LINEAR RANGE	20-2E9 IU/ML	100-5E9 IU/ML	50-1E8 IU/ML
EXTRACTION TIME (96 SAMPLES)	120 MIN	40 MIN	130 MIN



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