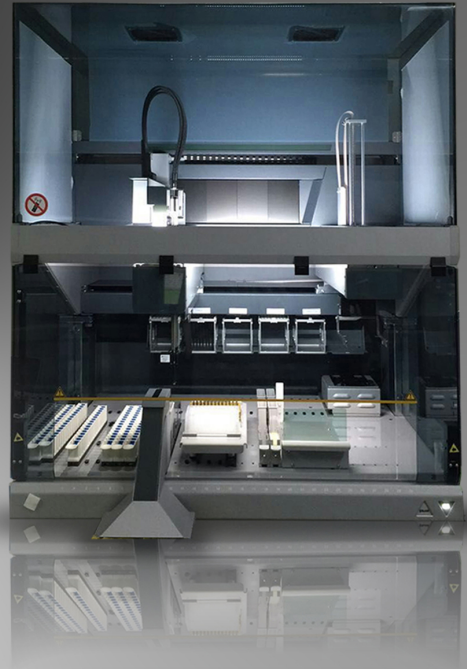


NEW GENERATION STARTS
INTRODUCING

FULLY AUTOMATED NUCLEIC ACID EXTRACTION SYSTEM

NATCH S

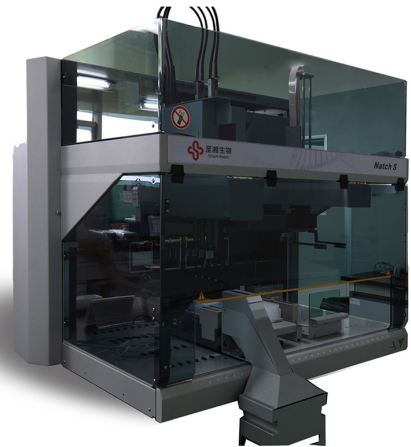


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INTRO

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 x 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

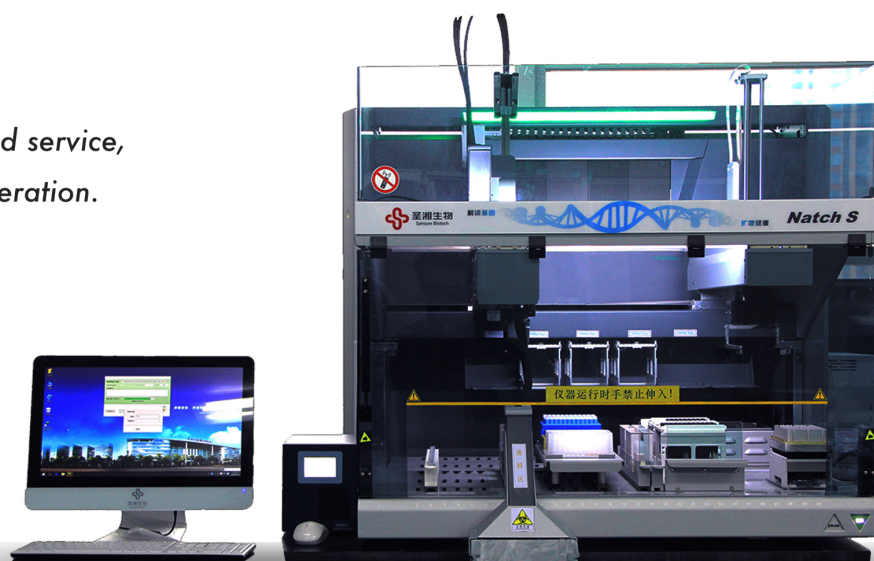


- Multi-functional and flexible
 - as many as 16 panels including kits on Magnetic beads like HBV, HCV, etc. and kits on One-tube platform like fast HBV, HPV, etc. (Mar. 2016)
 - as many as 6 parameters simultaneous process (STDs, HPV, etc)
 - as many as 14 PCR thermocyclers' validation with Natch S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

2 PERFORMANCE

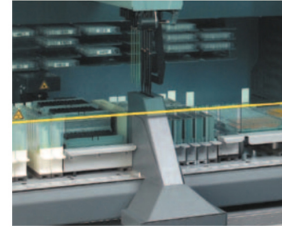
ONE-STOP COMMON PLATFORM CREATES A MODERN MOLECULAR LAB

- **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.*



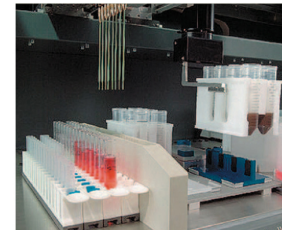
ONE-STOP PLATFORM FOR SAMPLE PROCESSING, EXTRACTION, AND PCR REACTION

- International leading precise micro pipetting
4-channel pipette independently positioning
Air gap anti-contamination technology
Repeatability: $CV \leq 0.4\%$ (liquid volume $\geq 50\mu\text{l}$)
Graphite conductive tip, cLLD + pLLD, allows precise positioning, and clot preventing



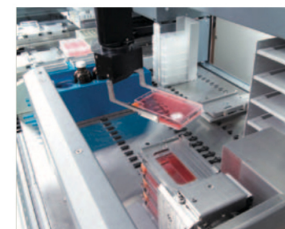
- Numerical positioning control
X/Y/Z three-dimensional positioning
Operation error: $< 0.1\text{ mm}$,

- 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 (96 samples): 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

Independent Lab

Blood center

Entry-Exit Inspection and Quarantine Bureau

Disease Control and Prevention 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	25 IU/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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