

RAA-EX16 Automatic Nucleic Acid Extractor

(备案号: 苏锡械备20230153)



Working Principle

The working principle of RAA-EX16 Automatic Nucleic Acid Extractor is to use permanent powerful magnet, through mechanical transmission, to drive the magnetic rod's tip and the magnetic rod holder; through the up and down movement of the magnetic rod's tip, to realize the sample mixing, splitting, binding, washing, and eluting in the corresponding extraction reagent; through the coordinated movement of the magnetic rod and the magnetic rod's tip, to realize the transfer of the beads and the beads-nucleic acid complexes; and through the separation of the magnetic rod and the magnetic rod's tip, to realize the release of the magnetic beads and the beads-nucleic acid complexes.

Product Usage

With different kinds of nucleic acid extraction reagents by magnetic bead method, RAA-EX16 can extract high-quality nucleic acids from tissues, swabs, blood, body fluids, etc. RAA-EX16 has the advantages of high degree of automation, fast extraction speed, stable results, and easy operation. It is widely used in scientific research and disease control system, food safety, animal and plant quarantine, clinical monitoring and other fields.

Product Features



Easy and intelligent operation

Built-in LED lighting, real-time observation of operation
Equipped with mobile phone APP intelligent setup software
Graphical interface, easy operation



Intelligent antifouling and efficient operation

Lead screw drive, precise lifting and lowering
Suitable for multiple sample types
With UV disinfection to reduce pollution



On-site and field experiments

Exquisite body, small and portable
Low energy consumption



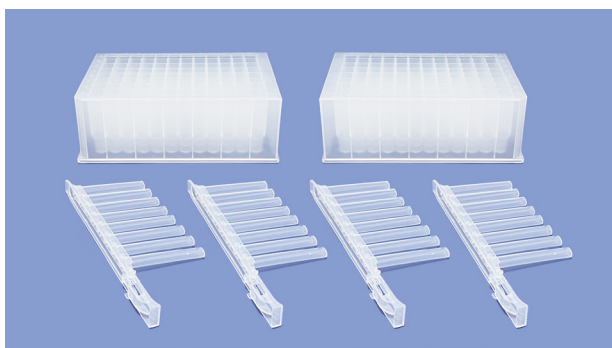
Open design and editable program

Accurate temperature control, open software settings
Matched with multiple single-sample consumables to extract

Basic Parameters

Item	Parameter	Item	Parameter
Principle	Magnetic rod type, magnetic bead method	Bar code scan	External code scanning gun, software can expand the input of sample information
Volume	50 μ L-1000 μ L	Consumables	Magnetic rod's tip, 96-Deepwell plates, Single-sample kits
Sample throughput	1-16	Disinfection	Fan exhaust, UV disinfection
Extraction time	With different nucleic acid extraction reagents, 10-60min	Power	Power adapter input 100-240VAC, 50/60Hz, output DC24V; Support 24V battery power supply
Heating temperature	37-120 $^{\circ}$ C	Capacity	Standby 10W, Max 150W
Operation interface	4.3-inch touch screen	Ambient Operating Temperature	10 $^{\circ}$ C-40 $^{\circ}$ C
APP software	Equipped with Android APP software to realize protocol editing and data transmission with the instrument	Ambient Operating Humidity	\leq 85%
Instrument interface	USB port, PC port and RS232 port	Dimension (WxDxH)	208 mmx258 mmx315mm
Data transmission	Support Bluetooth, USB, RS232 data transmission, can expand the PC port transmission	Weight	9kg

Adaptive Consumables



RAA-EX16 Multi-sample Consumables



RAA-EX16 Single-sample Consumables

About us

Wuxi Qitian Biological Science Instruments Co., Ltd is a holding subsidiary of Jiangsu Qitian Gene Biotechnology Co., Ltd, focusing on the research and development and application of isothermal nucleic acid amplification technology and supporting instruments of rapid molecular detection. Participating in major project of the national 13th Five-Year Plan, special project of emergency response to public safety control and prevention of the Ministry of Science and Technology and the unveiling and commanding project to tackle key technology of COVID-19 control and prevention in Wuxi and other projects. The company has completed the sample extraction and pretreatment system and the design of multichannel RAA fluorescent detector and algorithm model of fluorescence detection and its first-generation product isothermal nucleic acid fluorescent detector has obtained national Class III registration certificate to meet the requirements of market access. The company has RAA fluorescent quantification algorithm and sample pretreatment and other core patent technology and many fluorescent detection software copyrights. With the quality policy of "Committed to innovation, Based on quality, Achieve win-win results", the company has created an on-site nucleic acid detection platform to race against time to protect life safety.

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