

## World's First Fully Automated EV microRNA Detector

Exo-01 EV microRNA automatic detector is an innovative and integrated automatic extracellular vesicle (EV) PCR machine. It enables an automatic integration of processes from sample intake to result output, including original tube sampling, mix configuration, sample management, RNA reverse-transcribing, two-step extraction of EV and RNA, and full-set fluorescence quantitative PCR test. It significantly improves the efficiency of clinical testing and is widely applicable in many medical fields such as early cancer diagnosis and disease monitoring.



Performance Parameters			
Name	EV microRNA automatic detector	Refrigerate reagent temperature	2°C-8°C
Number of sample positions	16 (expandable upto 48)	Thermal cycle module temperature control range	4°C-99°C
Sample testing speed	4.5h for first result, 48 tests in 8h	Repeatability of machine fluorescence intensity detection	CV ≤ 1.5%, for tests with high, medium and low calibration dyes within the product's detection range
Sample tube type	Compatible with blood collection tubes of 3ml, 5ml, and 10ml	Accuracy of machine fluorescence intensity	CV ≤ 5%, for tests in randomly selected wells
Sample Type	Serum, plasma, urine	Machine Linearity	Linear regression coefficient ≥ 0.99
Sample volume	500ul,1ml,16ml	Repeatability	CV of CT value ≤ 3%
Multiplex PCR	Can achieve single-tube multiplex PCR, simultaneous testing of maximum 10 analytes	Reagent linearity	≥ 0.98
Consumables supply	Support replenishment while testing Maximum 8 hours of testing without replenishment	LIS system	LIS compatible, for automated data collection
Detection mode	Batch detection, on-demand detection, purification and amplification of integrated	QC Requirements	1 QC is required for 8 hours of testing.

## Product Features

01

### Breakthrough Technology

- Compatible with multiple testing items
- Patented two-step extraction of EVs and nucleic acids

03

### High Adaptability

- Compatible with universal consumables for easier adaptation in various scenarios

02

### Integrated Automation

- Fully integrated automatic system from sample input and results output
- including reagent preparation, automatic testing item identification, nucleic acid purification, and analyte detection

04

### Efficiency and Accuracy

- No cross-contamination realized with negative pressure isolation and etc.
- Automatic configuration of mix for reverse-transcribing
- Integrated rapid PCR system

## Compatible Parameters

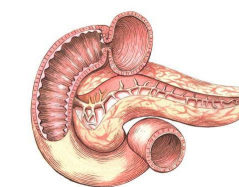
Hepatocellular Carcinoma



Gastric Carcinoma



Pancreatic Carcinoma



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## REXO-32 - Automatic EV Extractor

REXO-32 Extracellular Vesicle (EV) Extractor is based on the breakthrough technology - PSEV-Capture, which is Hotgen's self-developed technology. The PSEV-Capture technology uses magnetic beads (MB) of phosphatidylserine (PS) on specific binding membrane to bind and collect extracellular vesicles (EVs) in a reversible and easy manner. The collected EVs maintains intact structure and activity. REXO-32 EV Extractor is a medium-throughput semi-automatic device that matches with Hotgen's PS-MB EV Extraction Kit. The device and reagents offer new solutions of efficiency and stability for EV purification in various scientific research scenarios.



Performance Parameters			
Name	REXO-32 EV Extractor	Temperature accuracy	±2°C
Sample throughput	32	Sterilization/decontamination method	UV light
Processing volume	1000uL	Operation interface	8-inch full-colour touch screen embedded integrated operation
Consumables	Deep-well plate + magnetic bar set	Input power	AC100-240V,50Hz/60Hz,350W
Magnetic Bead Recovery Efficiency	≥99	Dimension(mm)	430X395X435mm (LxWxH)
Ambient temperature range	10°C~30°C	Weight	28.5kg

## Product Features

01

### Compatibility with various sample types

- Applicable to a wide range of sample types,
- such as blood and other body fluids

02

### Quick extraction

- Compatible with universal consumables for easier adaptation in various scenarios

03

### Internationally patented PSEV-Capture purification technology

04

### Seamless integration with downstream experiments

- Mild isotonic buffer ensures the integrity of EVs,
- which can be directly used in downstream related experiments

## Reagent Kits Available

Product Code	Product Name	Specification
SeE01-12	Extracellular vesicle purification kit (SEC)	12T/box
SeE01-24	Extracellular vesicle purification kit (SEC)	24T/box
SeE02-12	Extracellular vesicle staining purification kit (SEC)	12T/box
SeE02-24	Extracellular vesicle staining purification kit (SEC)	24T/box
PsE01-12	Extracellular vesicle extraction kit (PS)	12T/box
PsE01-24	Extracellular vesicle extraction kit (PS)	24T/box
QuiAB01-1	MiRNAuto-microRNA extraction kit (Magnetic bead)	48T/box
QuiAB02-1	MiRNAuto-microRNA extraction kit (Magnetic bead)	96T/box