analytik

EXODUS

EXODUS

AUTOMATIC EXOSOME ISOLATION SYSTEM

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Automatic System for Exosomes Isolation

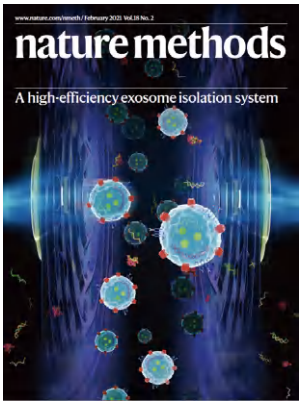
EXODUS

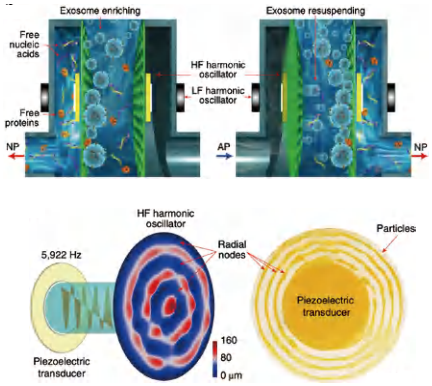
EXODUS is an automatic, label-free, and highly efficient exosome isolation system. With EXODUS, you can easily and quickly isolate high-quality, intact exosomes with excellent yield and purity from a variety of bio-fluids and sample volumes.

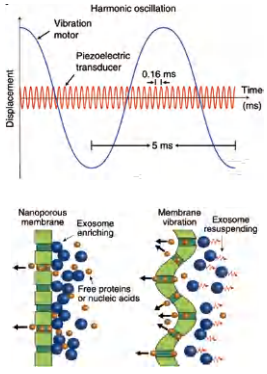
Experience the efficiency of EXODUS for yourself and take your research to the next level.

Isolation Principles

EXODUS has been developed using a dual-membrane nanofiltration system that integrates periodic negative pressure oscillation (NPO) and double-coupled ultrasonic harmonic oscillations (HO).







Nature Methods, 2021, 18(2):212-218.

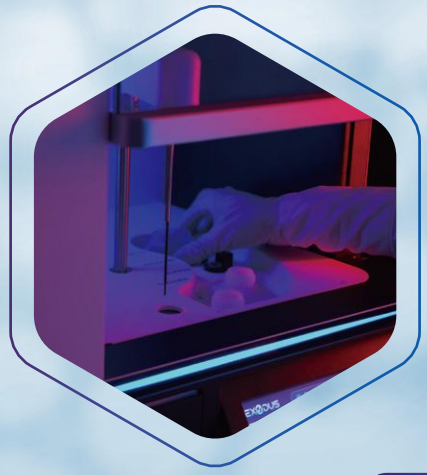
EXODUS can rapidly remove free nucleic acid and protein impurities from the sample, resulting in the efficient purification and enrichment of exosomes. The exosomes are precisely intercepted by nanoporous membrane, allowing for a highly targeted isolation process.

EXODUS has great potential to revolutionise exosome isolation and drive new discoveries in biomedical research and translation.

Automatic Process

EXODUS is designed to automatically isolate high yield and purity exosomes from different biofluid sample volumes.

Step 1

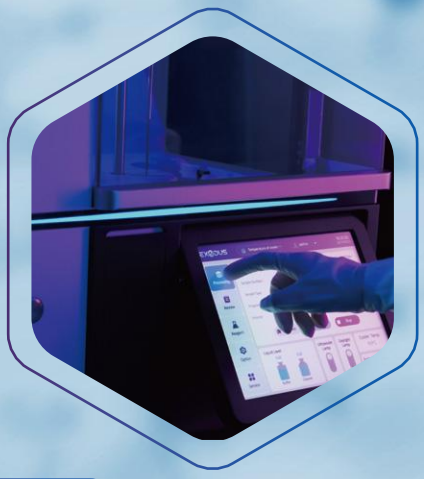


Sample loading

- Plasma
- Urine
- Saliva
- Tears
- Aqueous humor
- Synovial fluid

Step 2

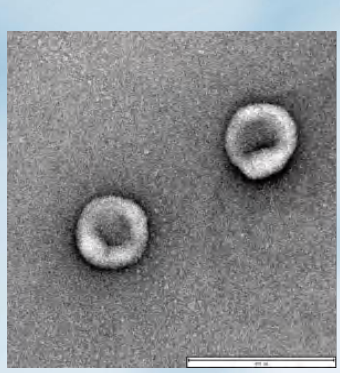
Automatic isolation



Step 3

Easy exosome collection

TEM



EXODUS

>> Automatic Exosome Isolation System

Rapid isolation

Maximum isolation speed: 200 mL/h

High purity and high yield

Purity ~ 99 %; Yield ~ 90 %

Wide application

Sample types	Sample volumes	Sample types	Sample volumes
Urine		Plasma	0.01 - 2 mL
Plant		Saliva	0.5 - 10 mL
Cell culture medium	1 - 250 mL	Tears	0.005 - 1 mL
Cell-derived vesicle		Aqueous humor	0.005 - 1 mL
Bacterial culture medium		Cerebrospinal fluid	0.5 - 25 mL

Label-free

Only need PBS buffer

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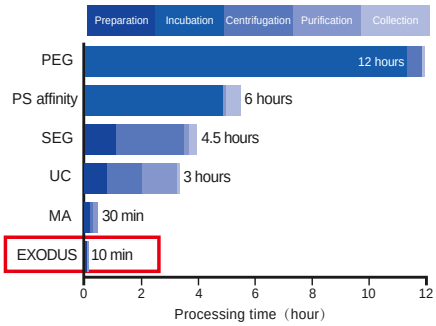
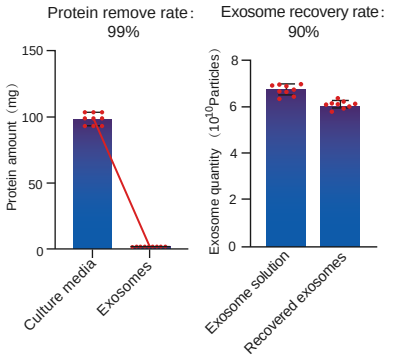
Rapid isolation

10 mL urine



Nutaure Methods, 2021, 18(2):212-218.

High purity and high yield



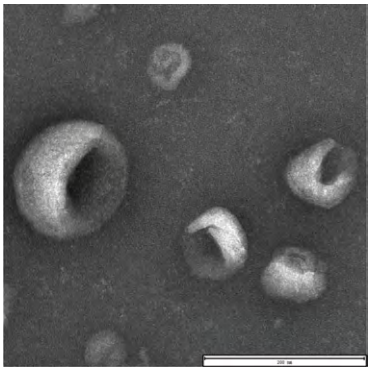
Nutaure Methods, 2021, 18(2):212-218.

Wide application

Other small amount sample types

Label-free

TEM image of exosome



Various Sample Types

- Plasma
- Urine
- Saliva
- Cerebrospinal fluid
- Tears
- Aqueous humor
- Synovial fluid
- Tissue
- Cell culture medium
- Bacterial culture medium
- Cell-derived vesicle
- Plant

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Applications

- Early diagnosis
- Drug delivery
- Exosome therapeutics
- Regenerative medicine

Model	EXODUS H300	EXODUS H600
Isolation principles	Combination of the negative pressure oscillations (NPO) and double coupled harmonic oscillations (HO) on nanoporous membrane	
Sample types	Plasma, urine, saliva, cerebrospinal fluid, tears, aqueous humor, synovial fluid, tissue, cell culture medium, bacterial culture medium, cell-derived vesicle, plant, ect.	
Isolation device size	S/M	S/M/L
Temperature of sample reservoir	2 - 8 °C	
Sample volumes	10 µL - 50 mL	10 µL - 250 mL
Processing speed	Max speed 50 mL/h	Max speed 200 mL/h
Isolation data saving	2000	20000
Exosome recovery volumes	100 - 400 µL	100 - 1000 µL
Ultraviolet sterilization	Internal UV lamp, turn off automatically after 30 min	
Display	10.4 inch touch screen, real time display with sample type, time, processing information ect. Supporting the operation without computer	
Dimension	535 x 510 x 475 mm (H x W x D)	
Net weight	40 kg (88 lbs)	
System interfaces	4 USB ports, 1 network port, 1 serial port	

Manufactured by Exodus, distributed in the UK and Ireland by **analytik**.