

AccuBioMed®

iColumn 12/24 Purification System

Automated Extraction Solution for cfDNA, miRNA and FFPE



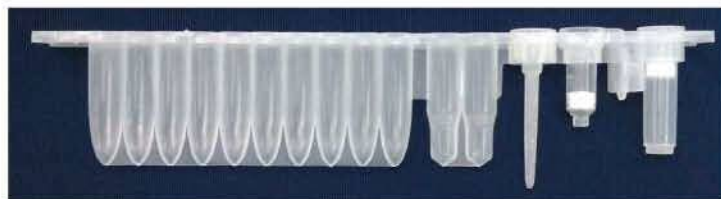


iColumn is a brand new solution for fully automated nucleic acid purification. Utilizing the silica membrane spin column method, it can purify nucleic acids with high yield and purity from a wide range and variety of samples. In addition, through our Innovative Trinity Technology™, the purification procedure can be done within a small and straight-line cartridge. Without centrifugation or vacuum pump suction, the workflow becomes extremely easy allowing different samples to be arranged in independent channels to avoid cross contamination.

PRINCIPLES

iCartridge™

All necessary reagents and trinity components are prefilled in the iCartridge. During the purification process, the Trinity column set "moves" along each reagent well of the iCartridge in an orderly manner. When it reaches each well, nucleic acid is washed and waste is discarded back into the iCartridge.

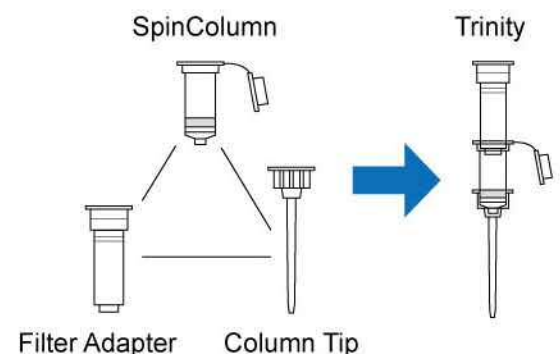
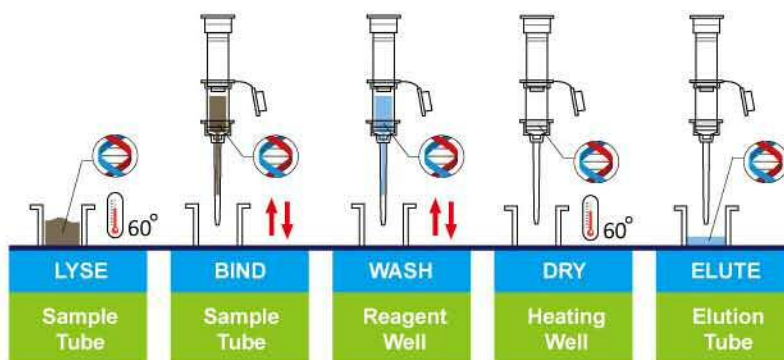


Trinity Technology™

It's a innovative thinking, a new way to purify nucleic acids. We realize the silica-based membrane spin column is non-directional. Therefore, we develop the Trinity, a combination of Spin Column, Filter Adapter and Column Tip. Utilizing the difference in air pressure, the lysate, buffers, and elution solution can be easily passed through the silica membrane with reversed ways and finally release the high quality eluted product for downstream experimental analysis.

iColumn Workflow

iColumn is a fully walk-away system from Lyse, Bind, Wash, Dry to Elute steps. A robotic arm connects the Trinity components and move along with the iCartridge to complete whole purification procedure. All movements are in the same axis and finally the eluate is delivered in the elution tube.



FEATURES

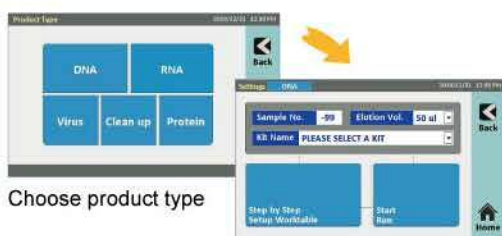
Proven Purification Technology

iColumn 12/24 utilize a proven spin-column method widely used throughout the world and is cited in many publications.



Ease Of Use

Integrated computer with 7" TFT LCD touch panel and intuitive software design. Navigate you to go through purification procedure smoothly.



Choose product type

Select protocol, confirm and go!

Ready To Go

With the prefilled reagent cartridge, and convenient setup rack. Experimental setup is easy and requires a minimum handling time.



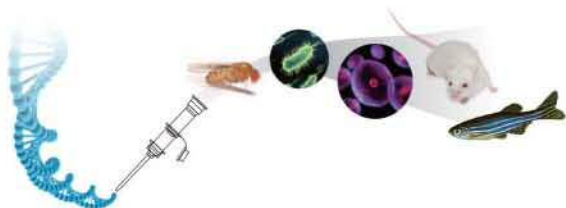
Streamline Workflow

Combined the Trinity and iCartridge Technology. iColumn is able to purify 1-12 or 1-24 samples simultaneously. All samples are placed in independent channels to avoid any cross contamination.



Wide Applications

The iColumn is preinstalled with protocols for purification of genomic DNA, RNA, Viral DNA/RNA from wide variety of samples



SPECIFICATION

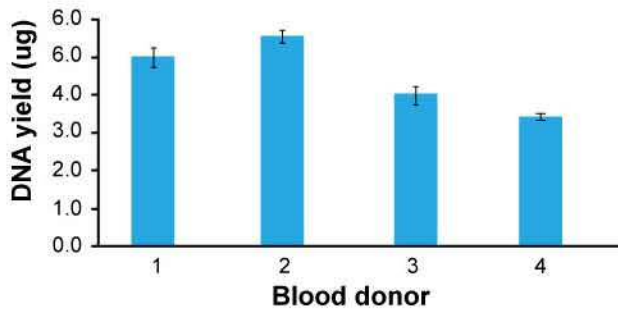
iColumn 12 & 24 Purification System Specifications

Dimension	W440 x D720 x H640 mm (12) ; W740 x D720 x H640 mm (24)
Net weight	60 kg (12) ; 85 kg (24)
Throughput	1-12;1-24
Power supply	100-240V,50/60 Hz
Electric Control	Internal microprocessor
Light Source	LED white light x1
Heat Block	RT~100°C x1, RT~70°C x1
Touch Screen	WVGA(16:9) 7" TFT LCD
Accessories	12 in 1 Rack x 1 (12) ; 12 in 1 Rack x 2 (24)
Processing time	30-200 min (depend upon sample type and method)
Sample volume	200~800 µl
Elution volume	50,100,150,200 µl
Operating condition	15-30°C



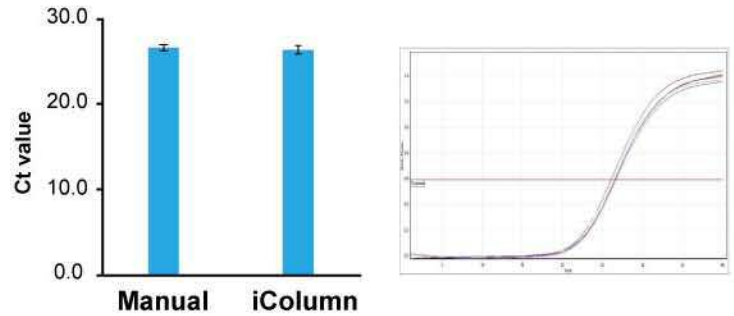
PERFORMANCE

Reproducible DNA Yields



Human blood was collected from 4 different donors and treated with EDTA. Genomic DNA was purified from 200µl blood with triplicate using the AccuPure Cell/Blood DNA Mini Kit on the iColumn system. The yield shows high reproducibility. (CV%<5)

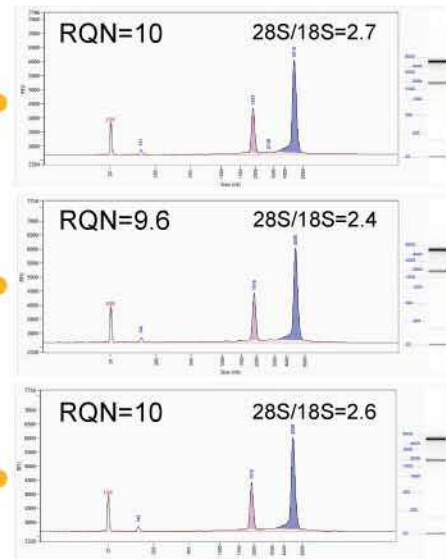
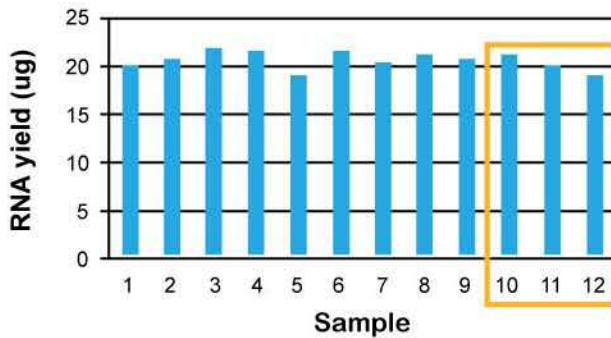
High Sensitivity of Viral Nucleic Acid As Manual Procedure



HBV DNA were purified from 200ul serum using the AccuPure Viral DNA Mini Kit by the iColumn or by the manual procedure. Viral DNA were analyzed by Qiagen Rotor-Gene Q qPCR system

Pure, Consistent Yield and High-Integrity RNA

Sample	Yield(ug)	260/280	260/230
Mean	20.21	1.99	2.02
Stdev	0.93	0.04	0.07
CV(%)	4.61	1.96	3.68



RNA was purified from 3×10^6 CHO cells using the AccuBioMed RNA Mini Kit on the iColumn.

ORDERING INFORMATION

Product Type	Product Name	Cat. No.
System	iColumn 12 Automated DNA/RNA Purification System	ABM1012
	iColumn 24 Automated DNA/RNA Purification System	ABM1024
DNA	AccuPure Cell/Blood DNA Mini Kit (96)	D10096
	AccuPure Circulating DNA Mini Kit (96)	D11096
	AccuPure Tissue DNA Mini Kit (96)	D20096
	AccuPure FFPE Tissue DNA Mini Kit (96)	D22096
	AccuPure MTB DNA Mini Kit (96)	D23096
	AccuPure Stool DNA Mini Kit (96)	D24096
	AccuPure Plant DNA Mini Kit (96)	D30096
	RNA	AccuPure Cell/Blood RNA Mini Kit (96)
AccuPure Blood RNA X Mini Kit (96)		R11096
AccuPure miRNA Mini Kit (96)		R12096
AccuPure miRNA-900 Mini Kit (96)		R13096
AccuPure Tissue RNA Mini Kit (96)		R20096
AccuPure FFPE Tissue RNA Mini Kit (96)		R22096
AccuPure Plant RNA Mini Kit (96)		R30096
Virus	AccuPure Viral DNA/RNA Mini Kit (96)	T10096
	AccuPure HPV DNA Mini Kit (96)	T12096