

AccuPure Circulating DNA Mini Kit



For automated extraction on iColumn 12/24 System

Purify cfDNA from serum, plasma or body fluid



This kit is designed to purify circulating tumor DNA and circulating fetal DNA from cell free samples. In order to catch more cfDNA, it's quite normal to enlarge the sample volume. But once sample volume increased, inhibitors also accumulated. So, the challenge of cfDNA purification is how to remove increased inhibitors come from larger sample volume effectively and lose the very rare cfDNA as few as possible.

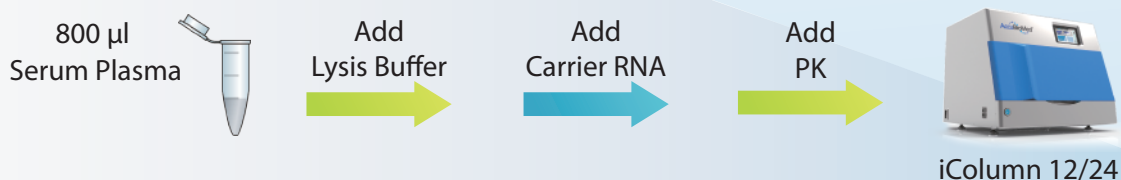
By iColumn™, we utilize Trinity Technology™ to catch cfDNA by column instead of magnetic beads which not only get higher yield but also with higher purity.

FEATURES

- Fully automated on iColumn 12/24 System
- Column based method
- No organic solvents required
- Concentration of cfDNA, high input and low elution volumes
- Removal of contaminants and inhibitors



WORKFLOW



SPECIFICATION

AccuPure Circulating DNA Mini Kit (D11096)	
Sample type	Serum, Plasma or Cell free body fluids
Sample volume	800 µl
Elution volume	50 µl
DNA Recovery	Able to catch cfDNA ≥ 50 bp, typically DNA recovery ranges from 1-100 ng/ml of plasma or serum. (The yield varies depending on the sample source and the health situation of the donor.)
Method	Column based
System	For iColumn 12/24 System
Applications	1.Cancer Diagnosis 2.Monitoring the Response to Cancer Therapy 3.Non-Invasive Prenatal Testing (NIPT) 4.Biomarker Discovery

PERFORMANCE

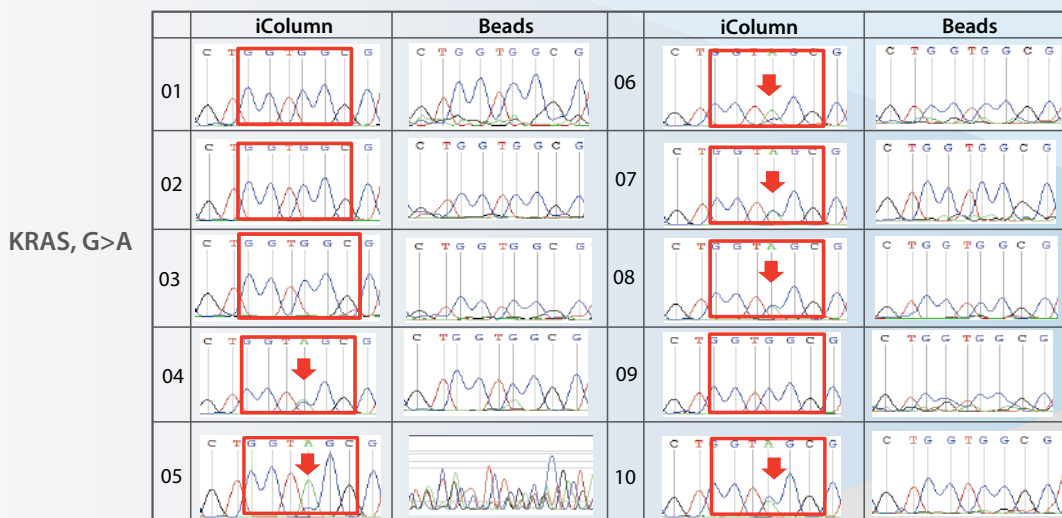
• Superior yields than other beads systems

No.	Purification System	cfDNA Yield. (ng)	QPCR (GAPDH)	
			Ct	Melt
1	iColumn	26.5	26.78	85.8
	Beads	N/A*	34.48	84.7
2	iColumn	25.6	27.08	86.2
	Beads	N/A*	34.60	84.5
3	iColumn	26.6	27.98	86.2
	Beads	N/A*	35.44	84.5
4	iColumn	32.0	26.21	86.2
	Beads	N/A*	35.65	84.5
5	iColumn	20.3	28.73	86.0
	Beads	N/A*	34.67	84.5
6	iColumn	22.0	26.86	86.2
	Beads	N/A*	34.81	84.5
7	iColumn	16.9	30.32	86.5
	Beads	N/A*	35.15	84.5
8	iColumn	45.9	25.12	86.0
	Beads	N/A*	33.65	84.5
9	iColumn	26.5	26.82	86.0
	Beads	N/A*	33.49	84.5
10	iColumn	32.9	24.93	86.0
	Beads	N/A*	33.70	84.5
PC	--	--	30.50	86.0
NTC	--	--	N/A	N/A

*Purified cfDNA was quantified by Qubit system. Concentration lower than 0.5ng/ml is not detectable and showed as N/A.

After one time of low speed centrifuge and another time of high speed centrifuge, 800 µl of plasma sample was collected and applied to iColumn system and Beads system in parallel to purify cfDNA.

• Removal of contaminants and inhibitors for PCR or qPCR



Eluate from both iColumn and Beads system are enriched by PCR enrichment kit to detect KRAS mutation. PCR results from iColumn show higher successful rate in PCR amplification and sequencing.

ORDERING INFORMATION

Product	Cat. No.
AccuPure Circulating DNA Mini Kit (96 rxn)	D11096
iColumn 12 Automated DNA/RNA Purification System	ABM1012
iColumn 24 Automated DNA/RNA Purification System	ABM1024