

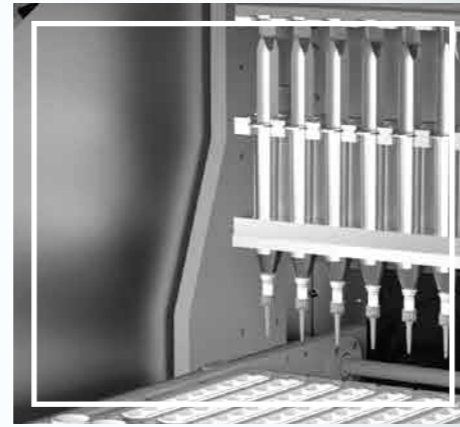
# Specification

## iCATCHER 12

Throughput	1-12
Sample volume	250 to 4000 $\mu$ l
Elution volume	50 to 200 $\mu$ l
Principle	Silica-Membrane Column
User interface	<ul style="list-style-type: none"> <li>7 inch WVGA TFT LCD</li> <li>Touch Screen</li> <li>Resolution 800 x 480</li> <li>65,536 colors</li> </ul>
Hardware	<ul style="list-style-type: none"> <li>Heat block A x 1: room temp. ~90 °C (adjustable)</li> <li>Heat block B x 1: 70 °C (fix)</li> <li>Cartridge Rack x 1</li> <li>White LED x1</li> <li>UV Light x1 : UVB 280-320 nm</li> </ul>
Software	<ul style="list-style-type: none"> <li>Graphic interface</li> <li>Preinstalled and optimized protocol</li> </ul>
Dimensions	W71 x D72 x H73 cm
Weight	100 Kg
Voltage	100V - 240V
Working Temp.	18 °C to 40 °C

# Order Information

Cat. No.	Product
<b>System</b>	
IC1200	iCATCHER 12 Automated Nucleic Acid Purification System
<b>DNA</b>	
AD10025-36	iCatcher DNA 250 Kit
AD10100-36	iCatcher DNA 1000 Kit
AD10400-36	iCatcher DNA 4000 Kit
AD21025-36	iCatcher FFPE Tissue DNA Kit
AD22025-36	iCatcher Stool DNA Kit
AD30025-36	iCatcher Plant DNA Kit
<b>RNA</b>	
AR10025-36	iCatcher RNA 250 Kit
AR10100-36	iCatcher RNA 1000 Kit
AR10400-36	iCatcher RNA 4000 Kit
AR21025-36	iCatcher FFPE Tissue RNA Kit
AR22025-36	iCatcher Tissue miRNA Kit
AR30025-36	iCatcher Plant RNA Kit
<b>TNA</b>	
AT10100-36	iCatcher VB DNA/RNA 1000 Kit
<b>CNA</b>	
AC10100-36	iCatcher Circulating cfDNA 1000 Kit
AC10400-36	iCatcher Circulating cfDNA 4000 Kit
AC20025-36	iCatcher Circulating cfRNA 250 Kit
AC20100-36	iCatcher Circulating cfRNA 1000 Kit



# iCATCHER 12

Automated Nucleic Acid Purification System



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Super High Concentration Ratio

Excellent Yield of Rare Nucleic Acid

Simple · Stable · Very Easy for Use

 **PhileKorea**  
Specialized in Medical & Bio Science since 2000

# Explore Liquid Biopsy with iCATCHER

# Workflow

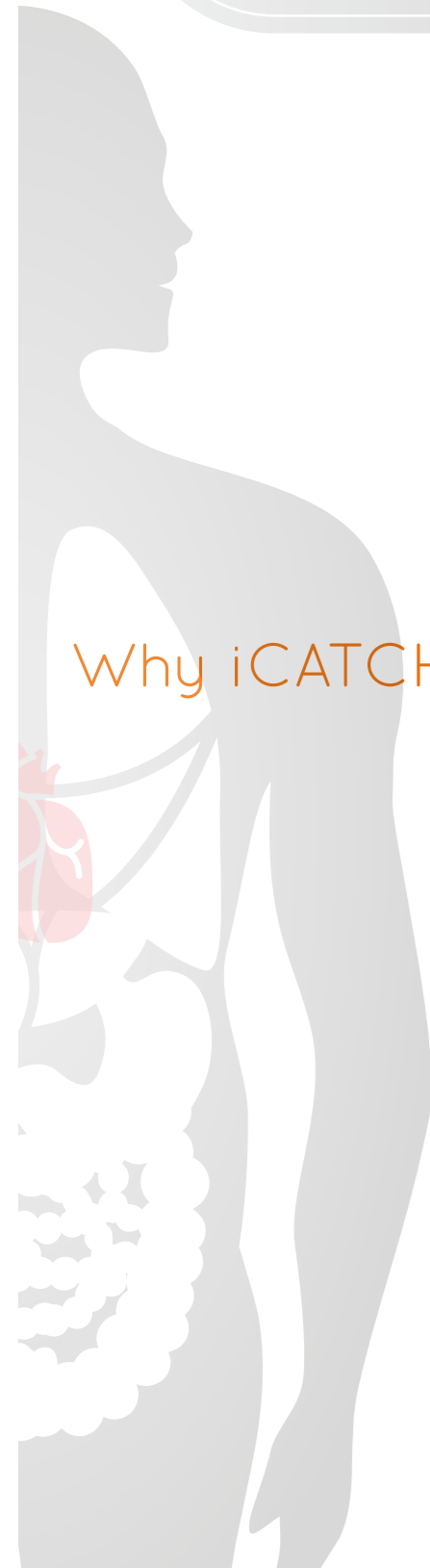


Formerly, people had to offer the biopsy specimens for clinical analyses of cancer detection which collected by biopsy forceps. It's not only needed to perform a surgery but also risk of massive bleeding. Recently, more and more evidence shows Circulating cell-free DNA (cfDNA) is a promising biomarker for noninvasive assessment of cancer burden. However, in the past two decades, people focused on how to increase the sensitivity of different detection assay or system. Now the bottleneck shift to nucleic acid purification. Because, if we can't catch cfDNA, even the sensitivity is extreme high, we still can't detect anything.

## Intuitive setup procedure / interface

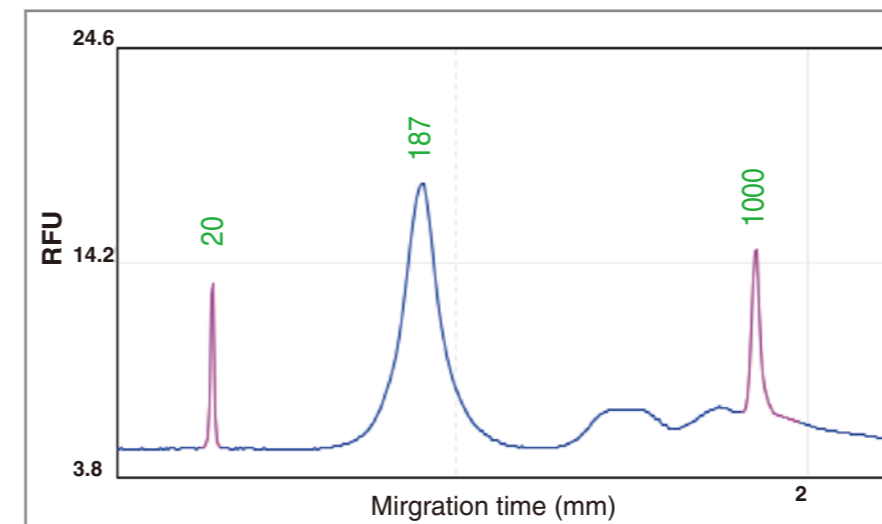
- Setup So Easy**  
Prefilled reagent cartridges and ready to use directly.
- Easy to Cleanup**  
All waste dispense back to tube or cartridge, no extra clean procedure.
- Ease of Use**  
Build in 7" touch screen with graphic interface.
- Linear Workflow**  
One sample in one line, avoid cross-contamination.

## Why iCATCHER can catch more

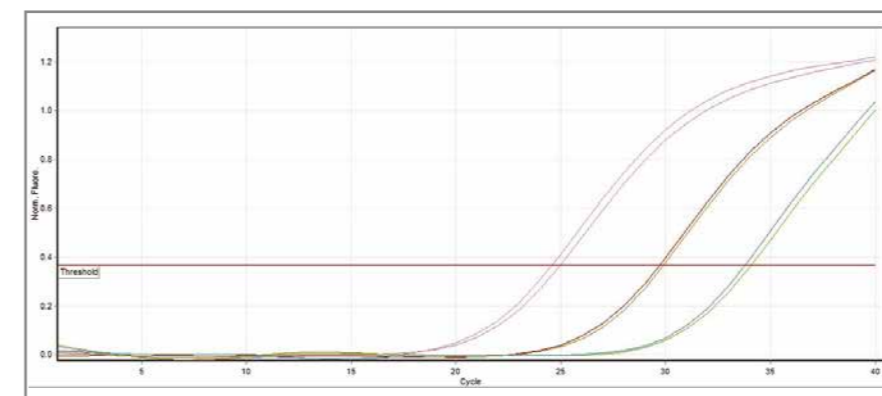


- High Concentration Ratio**  
4 ml Sample In, 50  $\mu$ l Eluate Out.
- High Recovery Rate**  
Catch cfDNA by "Membrane" fishing net, instead of "Bead" fishing hook.
- High Yield**  
Optimized Porous & Two-Sided Silica Membrane.
- High Purity**  
Flush Away Washing, Like take a shower, wash all inhibitors away.
- Low Inhibition**  
Dry out membrane to eliminate ethanol by heating.

## Performance



cfDNA were purified by iCATCHER from 4ml plasma sample then ran capillary electrophoresis on BiOptic Qsep 1. iCATCHER can catch clear and sharp peak of cfDNA.



Eluate performed qPCR with serial dilution to see if there is any inhibitor remaining in eluate. qPCR data shows high linearity ( $R^2 > 0.99$ ) which means almost no inhibitors in eluate.

