**iCATCHER 12 Automated Nucleic Acid Purification System**

**Specification**

**iCATCHER 12**

- **Throughput**: 1-12
- **Sample volume**: 250 to 4000 µl
- **Elution volume**: 250 to 4000 µl
- **Principle**: Silica-Membrane Column
- **User interface**: 7 inch WVGA TFT LCD
- **Hardware**: Touch Screen, Resolution 800 x 480, 65,536 colors
- **Heat block A x 1**: room temp.~90 °C (adjustable)
- **Heat block B x 1**: 70 °C (fix)
- **Cartridge Rack x 1**
- **White LED x1**: UVB 280-320 nm
- **Software**: Graphic interface, Preinstalled and optimized protocol
- **Dimensions**: 71 x 72 x 73 cm
- **Weight**: 100 Kg
- **Voltage**: 100V - 240V
- **Working Temp.**: 18 °C to 40 °C

**Order Information**

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<th>Cat. No.</th>
<th>Product</th>
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<td>AD10025-36</td>
<td>iCatcher DNA 250 Kit</td>
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<td>iCatcher DNA 1000 Kit</td>
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<td>AD21025-36</td>
<td>iCatcher FFPE Tissue DNA Kit</td>
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<td>iCatcher RNA 250 Kit</td>
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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.

Why iCATCHER can catch more

- **High Concentration Ratio**
  4 ml Sample In, 50 µl 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.

Intuitive setup procedure / interface

- **Setup So Easy**
  Prefilled reagent cartridges and ready to use directly.

- **Ease of Use**
  Build in 7” touch screen with graphic interface.

- **Easy to Cleanup**
  All waste dispense back to tube or cartridge, no extra clean procedure.

- **Linear Workflow**
  One sample in one line, avoid cross-contamination.

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.