iCatcher® Circulating cfDNA 2000 Kit

Cat. No.	Rxn
AC10200-36	36

Kit Content

	36rxn	
Syringe	36	set
Elution Tube	36	pcs
AC10200 Cartridge	36	set
AC10200 Column Set	36	set
AC10200 Tip Set	36	set
EtOH Tube	36	pcs
Sample Tube	36	pcs
Carrier RNA	140	µg
Proteinase K	76	mg
Buffer AE	5	ml

Kit Preparation

1. **Prepare 20 mg/ml Proteinase K**
   For 76 mg Proteinase K, please add 3.8 ml Buffer AE into tube and vortex thoroughly for dissolving. After dissolving into solvent, please store in 4°C for 6 month or -20°C for 1 year.
2. **Prepare 0.5 µg/µl Carrier RNA**
   For 140 µg Carrier RNA, please add 280 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
   After dissolving, please aliquot into smaller volume and store at -20 or -80°C. Do not freeze-thaw more than three times.

Kit Storage

Upon arrival,

1. Please store **Column Set** at **4℃** for long term storage.
2. **Carrier RNA** and **Proteinase K** should be stored at **-20°C upon arrival** for long term storage.
3. Cartridge and consumables, please store at 15-25 °C.

Sample Pretreatment

The half life of cfDNA in whole blood or body fluid is very short. So, after sampling, please must perform following pretreatment as soon as possible.

1. Centrifuge whole blood or body fluid at 1,600 - 3,000 x g for 10 minute at room temperature.
2. Transfer upper layer to 1.5/2 ml micro-centrifuge tubes (not provided). Please avoid aspirating any cell debris or WBC (for whole blood sample) and intermediate layer, otherwise might co-extract gDNA form intact cell.
3. Centrifuge at 11,000 – 16,000 x g for 10 min and transfer the supernatant for following extraction.

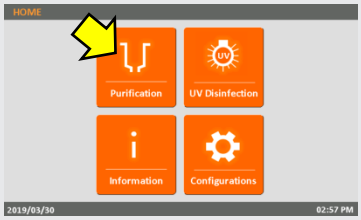
*Please keep samples into -20°C or -80°C if extraction won't be performed immidiately after pretreatment.

Ways to Thaw Sample

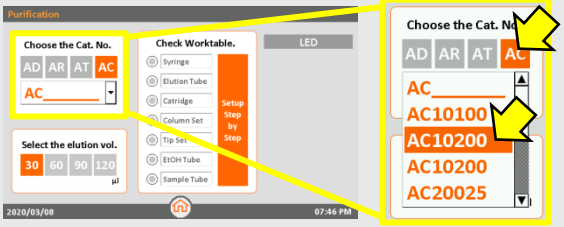
1. Please do not thaw samples on ice or at 4°C, it might cause the formation of cryoprecipitates.
2. Thaw samples at 30°C for 30 min is suggested to avoid the formation of cryoprecipitates.

Step by Step to start a AC10200 Purification Run

1. On the **Start** screen: Click "ENTER" button to enter the HOME screen.
2. On the **HOME** screen: Click "Purification" icon to start a purification run.

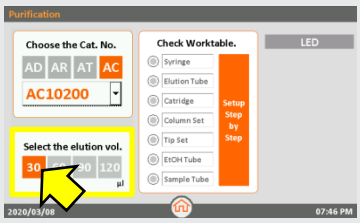


3. Please choose **Cat. No.**



Please click "**AC**"
Then choose "**AC10200**"
For **iCatcher® Circulating cfDNA 2000 Kit**

4. Choose **Elution Vol.**



We suggest to choose **30µl** to get higher concentration of cfDNA.

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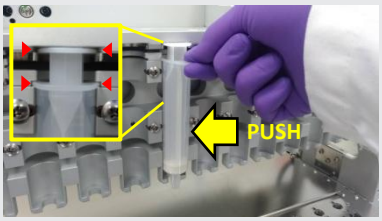
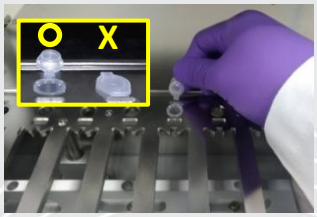
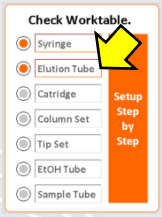
5. Insert the **Syringe** into the groove of Syringe Seat and push it to the end.

Check the **Syringe**.

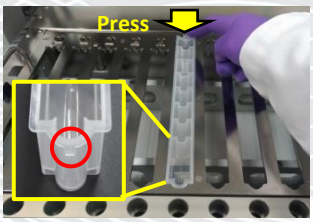
6. Labeling , then open the lid and place the **Elution Tube** on the Elution Tube position.

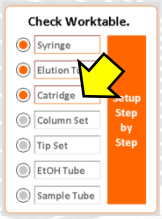





Check the **Elution Tube**.

7. Insert the front protrude part of **Cartridge** into Cartridge position and press the bottom down. Then remove the foil.





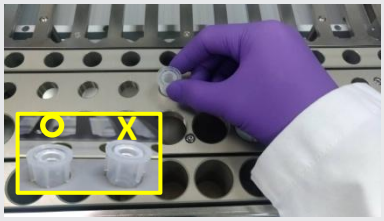
Check the **Cartridge**.

Important! Please must **remove the foil** before running a protocol.

8. Insert **Column Set** into Column Set position and press into bottom.

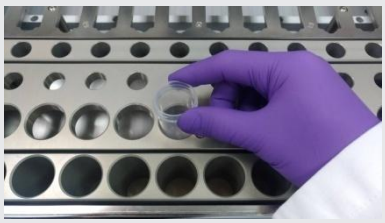
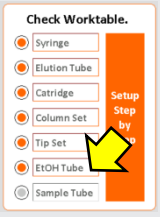

Check the **Column Set**.

9. Place **Tip Set** on Tip Set position and press into bottom.

Check the **Tip Set**.

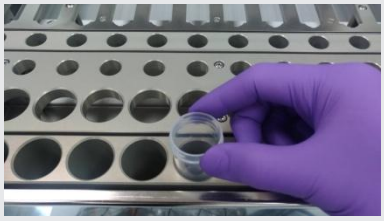
10. Add **21 ml** 100% EtOH into **EtOH Tube** and place on the EtOH Tube position.

Check the **EtOH Tube**.

Add **21 ml** 100% EtOH into **EtOH Tube**

11. Prepare sample and load the Sample Tube into the Sample Tube position.


Check the **Sample Tube**.

Click "**Go**" to start purification.

a. Add 100 µl Proteinase K (20 mg/ml) into the bottom of Sample Tube.
b. Add 5 µl Carrier RNA (0.5 µg/µl) into the bottom of Sample Tube.
c. Transfer 2 ml of serum/plasma/body fluid sample (already centrifuged with Low & high speed) into Sample Tube.
d. Load the Sample Tube into the Sample Tube position of iCatcher (no need to mix or pipette it).

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