

Kit Content

	6rxn	36rxn	
Syringe	6	36	set
Elution Tube	6	36	pcs
AC10400 Cartridge	6	36	set
AC10400 Column Set	6	36	set
AC10400 Tip Set	6	36	set
EtOH Tube	6	36	pcs
Sample Tube	6	36	pcs
Carrier RNA	12x3	188	µg
Proteinase K	11x3	152	mg
Buffer AE	1.5x2	15	ml

Kit Storage

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

Kit Preparation

- Prepare 20 mg/ml Proteinase K**
For 11 mg Proteinase K, please add 0.55 ml Buffer AE into tube and vortex thoroughly for dissolving
For 152 mg Proteinase K, please add 7.6 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.
- Prepare 0.5 µg/µl Carrier RNA**
For 12 µg Carrier RNA, please add 24 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
For 140 µg Carrier RNA, please add 280 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
After dissolving, please store at -20°C. Do not freeze-thaw more than three times.

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.

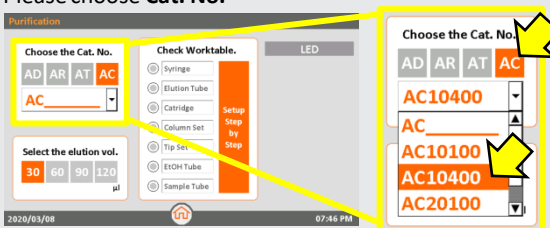
- Centrifuge whole blood or body fluid at 1,600 - 3,000 x g for 10 minute at room temperature.
 - Transfer upper layer to 1.5/2 ml micro-centrifuge tubes (not provided). Please avoid aspirating any cell debris or WBC (for whole blood sample) and intermediate layer, otherwise might co-extract gDNA form intact cell.
 - 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 -70°C if extraction won't be performed immediately after pretreatment.
*It's necessary to perform high speed centrifuge (11,000 – 16,000 x g) to remove large fragment protein or bacteria.

Step by Step to start a AC10400 Purification Run

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

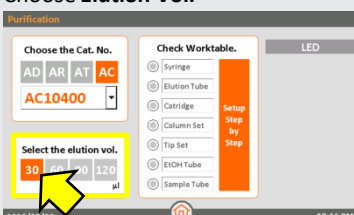


- Please choose **Cat. No.**



Please click "AC"
Then choose "AC10400"
For iCatcher® Circulating cfDNA 4000 Kit

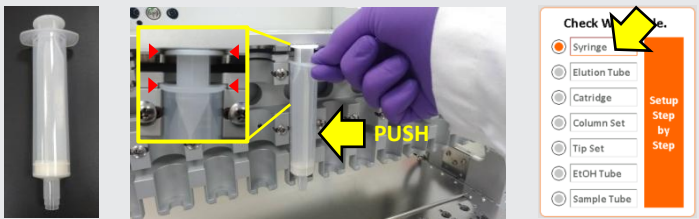
- Choose **Elution Vol.**



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.



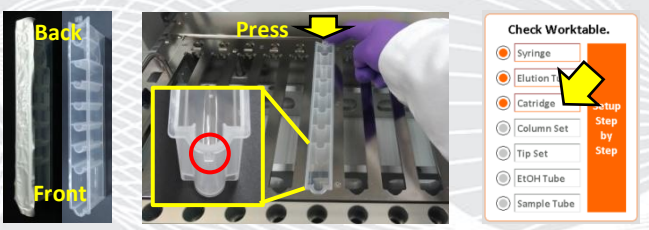
Check the **Syringe**.

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.



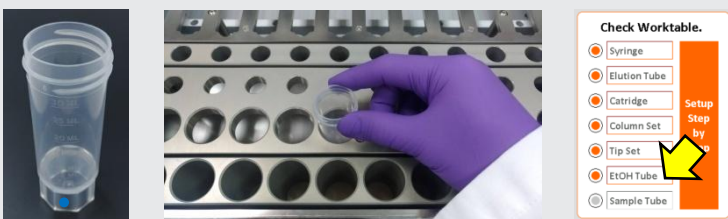
Check the **Column Set**.

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



Check the **Tip Set**.

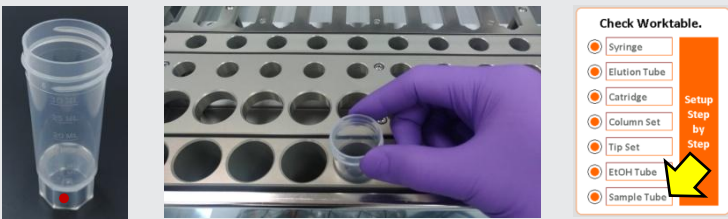
10. Add **27 ml** 100% EtOH into **EtOH Tube** and place on the **EtOH Tube** position.



Check the **EtOH Tube**.

Add **27 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.



- Add 200 μ l Proteinase K (20 mg/ml) into the bottom of Sample Tube.
- Add 10 μ l Carrier RNA (0.5 μ g/ μ l) into the bottom of Sample Tube.
- Transfer 4 ml of serum/plasma/body fluid sample (already centrifuged with Low & high speed) into Sample Tube.
- Load the Sample Tube into the **Sample Tube** position of iCatcher (no need to mix or pipette it).

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