CatchGene® *Catch-miRNA* Serum/Plasma Kit

Cat. No.	Rxn
MC20004	4
MC20050	50
MC20250	250

Kit Description

The *Catch-miRNA* Serum/Plasma kit enables purification of 19-24 nucleotides miRNA, small RNA and less than 1000 nucleotides RNA from serum/plasma or urine samples. Based on optimized reagent buffer and silica membrane column, C*atch-miRNA* Serum/plasma kit is able to get high quality and purity of miRNA, which can be used in wide range of downstream application such as qPCR, Microarray and NGS. It provides a convenient and eco-friendly protocol without using phenol or chloroform for RNA purification.

Kit Content

	4rxn	50rxn	250rxn	
Spin Columns (with 2ml Tube)	4	50	250	pcs
Collection Tubes (2 ml)	8	100	500	pcs
Buffer RCL1	0.36	4.5	22.5	ml
Buffer RCL2	0.12	1.5	7.5	ml
Buffer CRW1 (concentrated)	0.48	6	30	ml
Buffer CRW2 (concentrated)	0.96	12	60	ml
RNase-Free H_2O	0.96	12	60	ml

Kit Preparation

1. **Prepare Buffer CRW1**
   Add 4 volume of 100% EtOH into concentrated Buffer CRW1 to get Buffer CRW1.
   After adding 100% EtOH, please tick the sticker on the bottle and close the cap tightly.
2. **Prepare Buffer CRW2**
   Add 4 volume of 100% EtOH into concentrated Buffer CRW2 to get Buffer CRW2.
   After adding 100% EtOH, please tick the sticker on the bottle and close the cap tightly.

General Protocol

1. Pipette 250 µl serum/plasma sample into 1.5 ml micro-centrifuge tube and add 75 µl Buffer RCL1. Pulse-vortexing for 10 sec , brief spin down then incubate at 25°C (room temperature) for 3 min.
2. Add 25 µl Buffer RCL2, pulse-vortexing for 10 sec, brief spin down then incubate at 25°C (room temperature) for 1 min.
3. Centrifuge at 11,000 x g for 3 min.
4. Transfer clear supernatant to a new 1.5 ml micro-centrifuge tube, add 330 µl Isopropanol, pulse-vortexing for 10 sec then briefly spin down.
5. Transfer all mixture to Spin Column (with 2ml Tube), incubate at 25°C (room temperature) for 2 min.
6. Centrifuge at 11,000 x g for 1 min.
7. Change a new collection tube, add 500 µl Buffer CRW1 into spin column, centrifuge at 11,000 x g for 1 min.
8. Discard the flow-through, add 500 µl Buffer CRW2 into spin column, centrifuge at 11,000 x g for 1 min.
9. Repeat step 8.
10. Change a new collection tube, centrifuge at 11,000 x g for 3 min.
11. Place the spin column into 1.5 ml Elution Tube, add 20-30 µl RNase-Free H_2O and incubate at 25°C (room temperature) for 2 min.
12. Centrifuge at 11,000 x g for 1 min for elution.

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