CatchGene® Cell/Exosome miRNA Kit

Cat. No.	Rxn
MR13004	4
MR13050	50
MR13250	250

Kit Description

The CatchGene Cell/Exosome miRNA Kit enables purification of 19-24 nucleotides miRNA, small RNA and less than 1000 nucleotides RNA from up to $1x10^7$ cells and exosomes. Based on optimized reagent buffer and silica membrane column, Cell miRNA 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	
MR13 Column	4	50	250	pcs
2ml Collection Tube	12	150	750	pcs
Buffer CEL	1.2	15	75	ml
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 Storage

Upon arrival,

1. Please store **MR13 Column** at **4 °C** for long term storage.
2. Buffer, solvent and consumables, please store at 15-25 °C.

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. Add 250 µl Buffer CEL (add 1% β-mercaptoethanol freshly), into cell pellet (up to $1x10^7$ cells) or exosome pellet in 1.5 ml micro-centrifuge tube, vortex for 10 sec, brief spin down then incubate at 25°C (room temperature) for 3 min.
2. Add 75 µl Buffer RCL1, vortex for 10 sec , brief spin down then incubate at 25°C (room temperature) for 3 min.
3. Add 25 µl Buffer RCL2, vortex for 10 sec, brief spin down then incubate at 25°C (room temperature) for 1 min.
4. Centrifuge at 11,000 x g for 3 min.
5. 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.
6. Transfer all mixture to MR13 Column (with 2ml Tube), incubate at 25°C (room temperature) for 2 min.
7. Centrifuge at 11,000 x g for 1 min.
8. Change a new collection tube, add 500 µl Buffer CRW1 into MR13 Column, centrifuge at 11,000 x g for 1 min.
9. Discard the flow-through, add 500 µl Buffer CRW2 into MR13 Column, centrifuge at 11,000 x g for 1 min.
10. Repeat step 9.
11. Change a new collection tube, centrifuge at 11,000 x g for 3 min.
12. Place the MR13 Column into 1.5 ml micro-centrifuge tube, add 30-100 µl RNase-Free H_2O and incubate at 25°C (room temperature) for 2 min.
13. Centrifuge at 11,000 x g for 1 min for elution.

FOR RESEARCH USE ONLY