

GRS microRNA Purification Kit

#GK11.0050 (50 preps) | GK11s (trial size, 4 preps) (FOR RESEARCH ONLY)



PROTOCOL FOR miRNA PURIFICATION from samples stored in tripleXtractor

- 1) Transfer 500µl of RNA sample in tripleXtractor. Add add 20µl of miRNA Buffer and 100µl of acid phenol-chloroform (not provided), and incubate at room temperature for 10 minutes.
- 2) Centrifuge at 14,000g-16,000g for 15 minutes with cooling (+6°C).
- 3) Transfer the upper phase to a new 1.5-ml microcentrifuge tube (RNase-free) and add a 35% volume of absolute ethanol. Mix well by shaking vigorously [e.g., Add 108µl of absolute ethanol to 200µl since (108/(200+108)=0.35)].
- 4) Place an RNA mini spin column in a 2-ml collection tube and transfer the ethanol-added mixture to the center of the column. Incubate at room temperature for 1 minute and centrifuge at 14,000g-16,000g for 30 seconds. Large RNA molecules will bind, whereas small RNA molecules will not.
- 5) Transfer the filtrate to a new 1.5-ml microcentrifuge tube (RNase-free) and add a 70% volume of absolute ethanol. Mix well by shaking vigorously [e.g., Add 700µl of absolute ethanol to 300µl of filtrate since (700/(300+700)=0.70)].
- 6) Place a new RNA mini spin column in a 2-ml collection tube and transfer the ethanol-added mixture to the center of the column. Incubate at room temperature for 1 minute and centrifuge at 14,000g-16,000g for 30 seconds
- 7) Add 200µl of Wash Buffer*, incubate at room temperature for 1 minute, and centrifuge at 14,000g-16,000g for 1 minute (*Ensure ethanol was added first time prior to use this kit).
- 8) Discard the collection tube and place the spin column in a new 1.5-ml microcentrifuge tube (RNase-free). Pipet 50µl of miRNA Elution Buffer (preheated to 65°C) directly to the center of the spin column without touching the membrane. Incubate at room temperature for 3 minutes.
- 9) Centrifuge for 3 minutes at 14,000g-16,000g to elute purified microRNA.

