RNA purification

Materials:

- EasyPure® RNA Purification Kit(Transgene, catalog no. ER701-01)
- Sterile and nuclease-free 1.5 or 2.0-mL Eppendorf tubes, PCR tubes or multi-well plates
- Nuclease-free, molecular biology-grade water
- 100% ethanol
- β-mercaptoethanol
- chloroform

Procedure:

Please add 32ml of 100% ethanol to WB12before use. All centrifugation is performed at room temperature.

Reagents provided by customers: chloroform, 96%-100%ethanol

l.Transfer: \leq l00ug RNA sample into a microcentrifuge tube and supplement to100ul with RNase-free water.Add350ul of BB12 (add l0ul β -mercaptoethanol for per ml BB12, and it must be freshly prepared before use). Mix thoroughly by inverting or vortexing.

- 2.Add 900ul of 96%-100% ethanol (precipitates may form at the stage). Mix thoroughly by inverting or vortexing.
- 3. Transfer half volume of solution and precipitates together to a spin column. Centrifuge at 12, $000 \times g$ for 30 seconds at room temperature. Discard the flow through.
- 4. Repeat step 3 with the remaining half volume of the solution.
- $5. Add\ 500 ul\ of\ WB12\ (Check\ to\ be\ sure\ ethanol\ has\ been\ added)\ into\ the\ spin\ column.$ Centrifuge at $12,\,000\times g$ for 30 seconds at room temperature. Discard the flow through. $6. Repeat\ step\ 5$ once.
- 7. Centrifuge at 12, 000xg for 2 minutes at room temperature. Air-dry the column matrix for several minutes.
- 8.Place the spin column into a clean 1.5ml RNase-free tube. Add 15-50ul RNase-free Water into the spin column matrix and incubate at room temperature for 1minute.
- 9. Centrifuge at 12, 000×g for 1minute to elute RNA.
- 10.Store the purified RNA at -80C.