



Clean Up of RNA samples Using The Total RNA Kit I (R6834)

1. Transfer 100 μ l of the RNA Sample to a 1.5 mL Centrifuge Tube. If the sample is less than 100 μ l bring up the sample volume to 100 μ l using Nuclease Free Water.
2. Add 100 μ l of TRK Lysis buffer to the sample and mix by pipetting or inverting.
3. **Add an equal volume (100 μ l) of 96-100% Ethanol to the sample and mix thoroughly by vortexing.**
NOTE: During RNA purification precipitate may form after the addition of ethanol. This does not affect the procedure.
4. **Apply the sample (including any precipitate that may have formed) to a HiBind® RNA spin column placed into a 2ml collection tube (supplied). Centrifuge at 10,000 x g for 30 to 60 seconds at room temperature. Discard flow-through and proceed to the next step.**
NOTE: The maximum capacity of the HiBind® RNA spin column is 800 μ l Larger volumes can be loaded on to the column successively in the same HiBind® RNA spin column. Discard flow-through after each centrifugation.
5. **Add 500 μ l of RNA Wash Buffer II diluted with absolute ethanol. Centrifuge at 10,000 x g for 30 to 60 seconds at room temperature. Discard flow-through and reuse the collection tube in the next step.**
6. **Wash the column as before with 500 μ l of RNA Wash Buffer II diluted with absolute ethanol. Centrifuge at 10,000 x g for 30 to 60 seconds and discard flow-through.**
7. **With the empty 2 ml collection tube, centrifuge the HiBind® RNA column for 2 minutes at maximum speed to completely dry the HiBind® matrix.**
8. **Elution of RNA: Transfer the column into a clean 1.5 ml centrifuge tube (not supplied), and elute the RNA with 40-70 μ l of DEPC-treated water (supplied). Make sure that you add the water directly onto the column matrix. Centrifuge for 1 minute at 10,000 x g.** A second elution may be necessary if the expected yield of RNA is > 30 μ g. Alternatively, RNA may be eluted with a greater volume of water. While additional elutions increase Total RNA yield, the concentration will be lower since more than 80% of RNA has been recovered in the first elution. Pre-heating the water to 70°C before adding it to the column, and incubating the column for 5 min at room temperature before centrifugation may increase yields