riboPOOL Protocol Snapshot



Detailed protocol available at www.sitoolsbiotech.com/protocols.php

<u> </u>	To 14 μ l of RNA sample add 1 μ l resuspended RP \bullet and add 5 μ l HB \bullet . Vortex and briefly spin-down.
<u> </u>	Incubate samples for 10 min at 68 °C and allow to cool slowly to 37 °C (3 °C/min).
☐ 3.	Resuspend SMB by carefully vortexing tube at medium speed.
4.	Transfer 90 μ l of SMB per sample to a new tube. It is possible to aliquot beads for up to 12 samples (i.e. 1080 μ l) in a single tube.
<u> </u>	Place tube on magnet and wait 1 min. Discard supernatant. Add 80 μ l per sample (e.g., 960 μ l for 12 samples) of DB and agitate tube to resuspend beads.
<u> </u>	Repeat step 5.
7 .	Briefly centrifuge the tube containing hybridized RNA (from step 2).
8.	Add 80 μ l of the prepared SMB to each sample. Mix by pipetting up and down
9.	Incubate samples at 37°C for 15 min, followed by 5 min at 50°C.
<u> </u>	Place samples on magnet and wait for 2 min. Transfer supernatant to a new tube, without disturbing the beads pellet.
☐ 11.	Place samples on magnet again for 2 min to remove potential trace amount of beads. Transfer 90 μ l of rRNA-depleted RNA to a new tube. [Samples can be stored at -20°C overnight or -80°C for long-term storage].
☐ 12.	Proceed to RNA purification with clean-up beads (option A) or ethanol precipitation (option B).







<u> </u>	Add 162 μ l resuspended CB to each sample and mix by pipetting up and down 6-8 times. Incubate at room temperature for 5 min.
<u> </u>	Place tubes on magnet and let beads separate for 5 min. Discard the supernatant.
3.	Add 500-1000 μ l of fresh 70% ethanol to each sample and incubate for 30 s at room temperature. Remove all ethanol without disturbing the pellet. Repeat for a total of 3 washes, while keeping the tubes on the magnet.
4 .	Let sample air-dry at room temperature for 8-10 minutes.
☐ 5.	Add 30 μ l of H $_2$ O to each sample and resuspend beads by pipetting up and down several times. Elution volume can be modified if higher/lower RNA concentration is needed; but it's not recommended to eluate in less than 10 μ l.
☐ 6.	Incubate at room temperature for 2 min. Place samples on the magnet and wait 5 min or until beads have separated.
7 .	Carefully transfer the supernatant to a new tube.
Option B: Ethanol Precipitation	
1.	Add 10 ul of SAO, 1 μl of LAO and 333 μl of 100% ethanol to each sample.
<u> </u>	Vortex well and incubate for 30 min at -80°C or -20°C overnight.
3.	Centrifuge at 11,000 g (or max speed) for 30 min at 4° C. Remove all supernatant without disturbing the pellet.
4 .	Add 200 μl of fresh 70% ethanol. Centrifuge at 11,000 g for 5 min at 4°C. Discard the supernatant.
<u> </u>	Repeat step 4 for a total of 2 ethanol washes.
☐ 6.	Air-dry pellet at room temperature for 5 min or until all traces of ethanol have evaporated.
7 .	Resuspend the pellet in 30 µl of H ₂ O or appropriate elution buffer. If required,