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AZUL TISSUE RNA EXTRACTION KIT

RNA IN 60 MINS | GOOD YIELDS FOR USE IN PCR/SEQUENCING

PRODUCT BROCHURE



Cat No-RE102

ISO 13485 CERTIFIED

PRODUCT DESCRIPTION

AZUL Tissue RNA Extraction Kit is an easy and efficient system for the isolation of total RNA from animal tissues. This kit uses a silica-based spin column technology for isolating RNA from biological samples, thereby eliminating toxic phenol-chloroform extractions. The eluted RNA is suitable for all sensitive downstream applications such as qPCR and Next-Generation sequencing.

KIT COMPONENTS

Components	For 50 preps	For 25 preps
Lysis Buffer(LB)	50mL	25mL
Binding buffer(BB)	30mL	15mL
Wash Buffer 1(WB1)	30mL	15mL
Wash Buffer 2(WB2)	25mL	13mL
Elution Buffer(EB)	4mL	2mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

SPECIFICATIONS

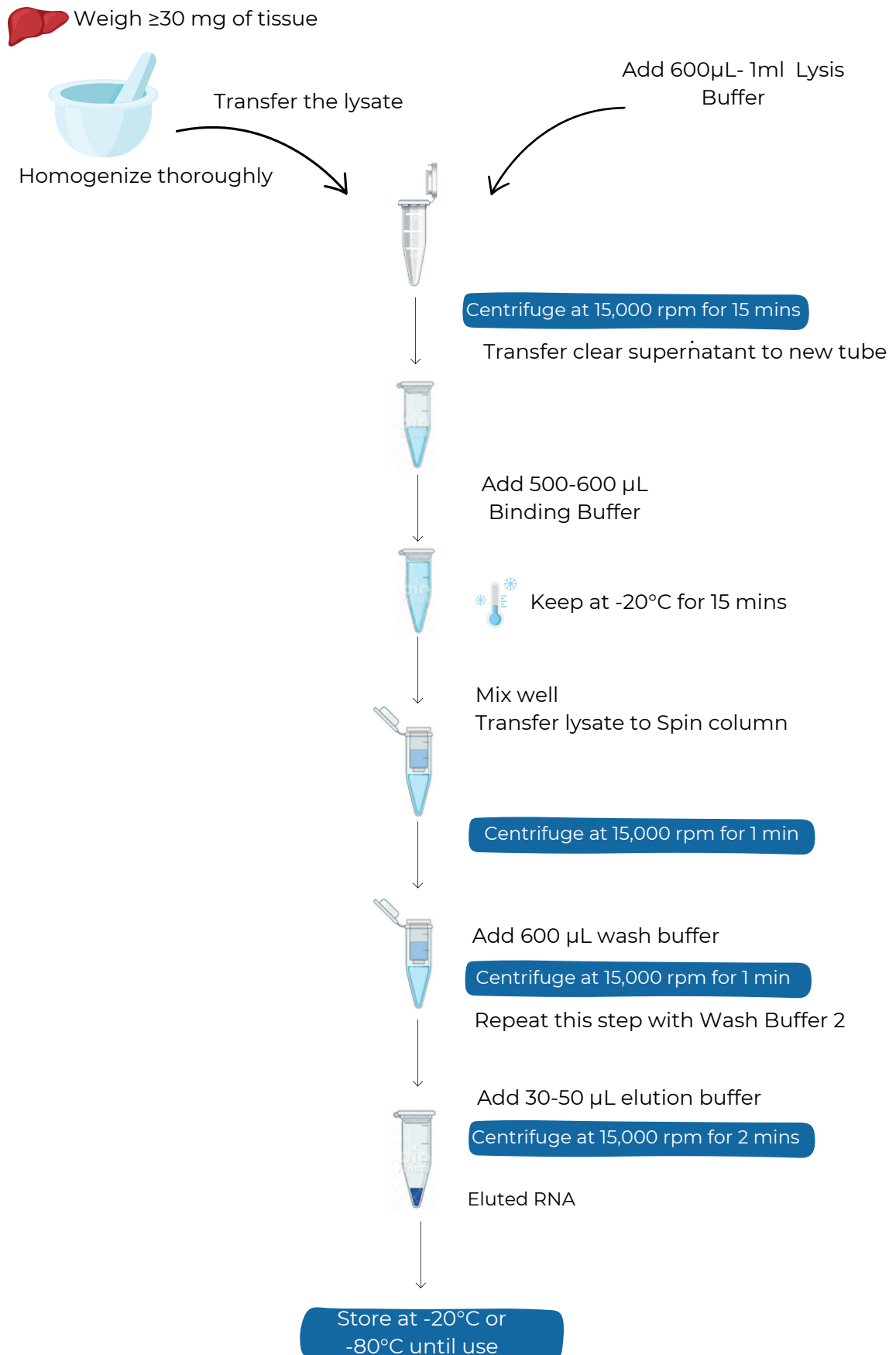
Format	Spin column
Sample type	Animal tissues
Equipment	Microcentrifuge
Processing time	<60 mins
Sample amount	≥ 30 mg
Type	Total RNA
Sample storage	Eluted RNA should be stored at ≤ -20°C
Yield	10-30µg
Purity	A260/280 ≥ 2.0
Kit Storage	Room Temperature
Kit Validity	Viable for 1 year if stored at appropriate conditions

NOTE: Check the Binding Buffer and Lysis Buffer for any salt precipitation before every use. Re-dissolve any precipitate by warming the solution to 37°C, then cool it back to room temperature before use.

RNA EXTRACTION PROTOCOL

1. Collect tissue (may be fresh, frozen or stored) and, weigh ≥ 30 mg of tissue, place it in a pre-chilled mortar and pestle.
2. Add 600 μ L- 1mL of Lysis Buffer to the tissue samples and grind thoroughly.
3. Transfer this tissue lysate into a clean 1.5 mL microfuge tube and incubate at RT for 10 min. Mix briefly by vortexing for 30 seconds.
4. Centrifuge at 15,000 rpm for 15 minutes at room temperature.
5. Carefully transfer the clear supernatant to a new 1.5 mL microfuge tube. Add 500 μ L-600 μ L of Binding Buffer and mix the tube briefly by inverting it a few times.
6. Place the tubes at -20°C for 15 minutes.
7. Transfer 800 μ L lysate to the spin column inserted in a collection tube. Centrifuge at 15,000 rpm for 2 min.
8. Discard the flow-through and place the purification column back into the collection tube. Repeat this step until the entire lysate has been transferred into the column and centrifuged.
9. Add 600 μ L of Wash Buffer 1 (WB1) to the column and centrifuge at 15,000 rpm for 1 min.
10. Add 500 μ L of Wash Buffer 2 (WB2) to the column and centrifuge at 15,000 rpm for 1 min to completely remove salts and impurities.
11. Transfer the purification column to a clean, sterile microfuge tube and add 30 μ L -50 μ L of Elution Buffer or DNase/RNase-free water to the centre of the column.
12. Centrifuge the column at 15,000 rpm for 2 minutes.
13. Discard the purification column and store the eluted RNA at -20°C or -80°C until use.

FLOW DIAGRAM OF RNA EXTRACTION PROTOCOL



TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SUGGESTED SOLUTIONS
Low RNA Yield	Tissue input: Too much input or incomplete lysis/ homogenization can cause cellular debris to clog or overload the column and leech salts into RNA eluate.	Use less input material or increase the volume of the Lysis Buffer and grind thoroughly.
Low RNA Purity(A260/A280)	Improper Sample handling results in ethanol or salt contamination.	Make sure lysate and wash buffers have passed entirely through the matrix of the column. This may require centrifuging at a higher speed or longer time.
	Incomplete lysis or cellular debris	Increase the volume of Lysis Buffer to ensure complete lysis/ homogenisation. Be sure to centrifuge and pellet any cellular debris, then process the cleared lysate.
DNA Contamination	Too much culture used	To remove DNA: Perform in-column DNase treatment or perform DNase treatment post-purification (not provided in the kit), then re-purify the treated sample.
RNA Degradation	Usage of old Cell suspension culture	To prevent RNA degradation: Immediately collect and lyse fresh samples into a Lysis Buffer. Collect and store the fresh cell cultures in RNA WRAPR Solution to ensure stability & integrity of RNA and process later.

ORDERING INFO

CATALOG NO	PRODUCT	PREP
RE101	AZUL SARS- CoV-2 Kit RNA Extraction Kit	25/50 preps
RE102	AZUL Tissue RNA Extraction Kit	25/50 preps
RE103	AZUL Bacterial RNA Extraction Kit	25/50 preps
RE104	AZUL Plant RNA Extraction Kit	25/50 preps
RE105	AZUL Soil RNA Extraction Kit	25/50 preps
RE106	AZUL Animal Cell Culture RNA Extraction Kit	25/50 preps
RE107	AZUL Blood RNA Extraction Kit	25/50 preps
RE108	AZUL Stool RNA Extraction Kit	25/50 preps
RE109	AZUL Saliva RNA Extraction Kit	25/50 preps
RE113	AZUL Microbiome RNA Extraction Kit	25/50 preps
RE114	AZUL Fungal RNA Extraction Kit	25/50 preps
RE115	AZUL FFPE RNA Extraction Kit	25/50 preps

FEEDBACK

How did this kit perform?

Did AZUL Extraction Kit fulfill expectations required for your research?

Let us know by filling out the feedback form [here](#)

Or scan the QR code:



CONTACT US



hello@azooka.life



+91 8088747968



www.azooka.life



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AZOOKALIFE



RESEARCH CENTRE:

Society for Innovation and Development, Indian Institute of Science, Malleshwaram, Bengaluru, Karnataka, India- 560055

MANUFACTURED AT:

1A, Kushal Garden Arcade, 'C' Block, 5th Floor, Peenya Industrial Area, 2nd Phase, Bengaluru, Karnataka, India- 560058