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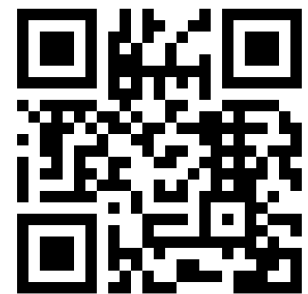
azooka



AZUL ORAL RNA EXTRACTION KIT

RNA IN 40 MINS | GOOD YIELDS FOR USE IN PCR/SEQUENCING

PRODUCT BROCHURE



Cat No-RE117

ISO 13485 CERTIFIED

PRODUCT DESCRIPTION

AZUL Oral RNA Extraction Kit is an easy and efficient system for the isolation of total RNA from oral/buccal Samples. 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 1 (LB)	25 mL	15 mL
Lysis Buffer 2	1.5 mL	0.8 mL
Proteinase K	2.5 mL	1.3 mL
Binding Buffer (BB)	25 mL	15 mL
Wash Buffer 1 (WB1)	30 mL	15 mL
Wash Buffer 2 (WB2)	25 mL	15 mL
Elution Buffer (EB)	4 mL	2 mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

SPECIFICATIONS

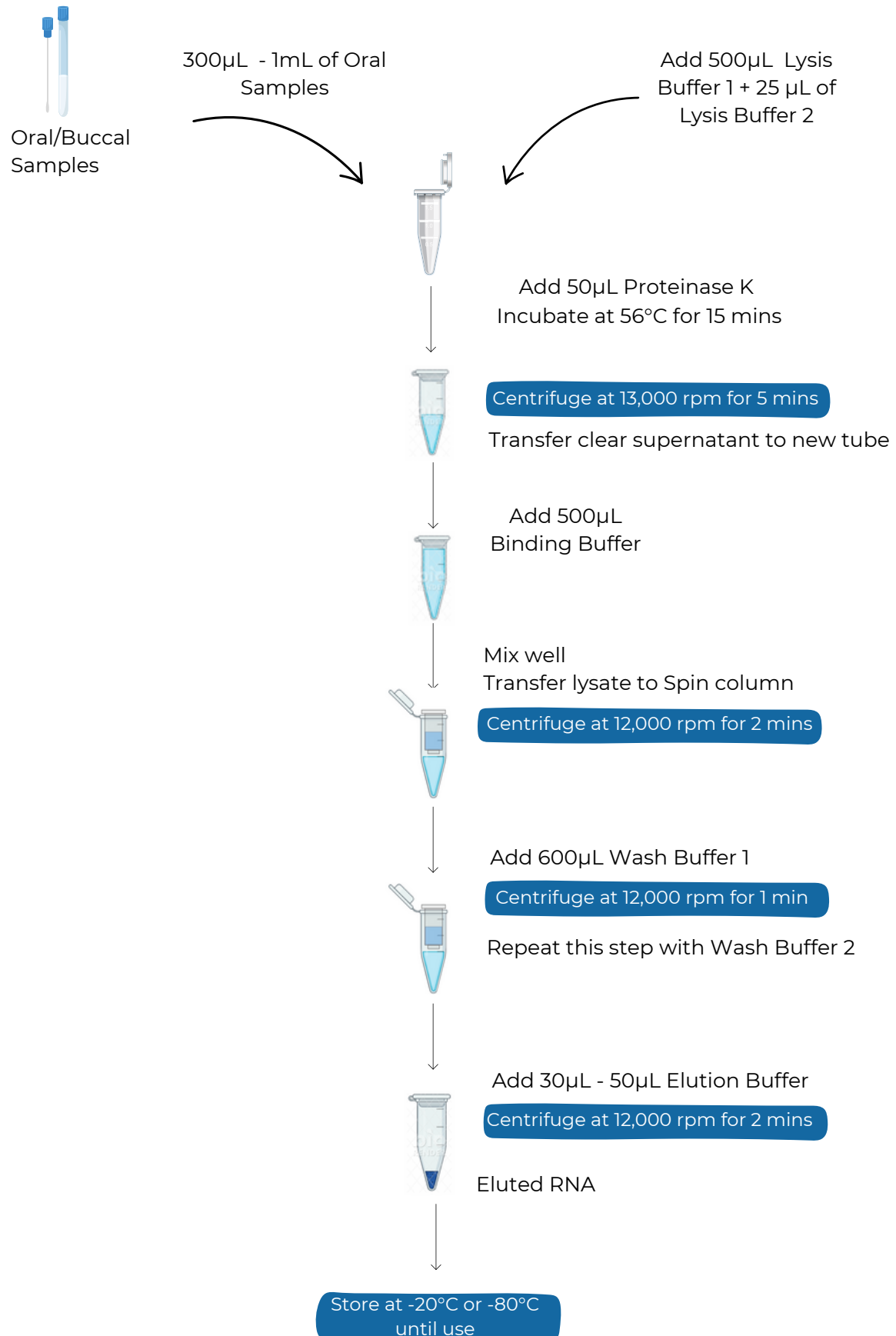
Format	Spin Column
Sample type	Oral/Buccal
Equipment	Microcentrifuge
Processing time	<40 mins
Processing volume	300µL - 1mL
Type	Total RNA
Sample storage	Eluted DNA should be stored at $\leq -20^{\circ}\text{C}$
Yield	2 - 25µg
Purity	$A_{260}/_{280} \geq 1.8$
Kit Storage	Room Temperature
Kit Validity	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. In a microfuge tube, take around 300 μ L - 1mL of Oral//Buccal samples collected using swab and stored in mWRAPR Collection Tubes or any other collection medium and add 500 μ L of Lysis Buffer 1 and add 25 μ L of Lysis Buffer 2.
2. Mix briefly by pipetting 2-3 times or vortex for 30 sec. Add 50 μ L of Proteinase K, incubate at 56°C for 15 mins.
3. Centrifuge the tube at 13,000 rpm for 5 mins.
4. Carefully transfer the clear supernatant to a new 1.5 mL microfuge tube. Add 500 μ L of Binding Buffer and mix the tube briefly by inverting it a few times.
5. Transfer 800 μ L lysate to the spin column inserted in a collection tube. Centrifuge at 12,000 rpm for 2 mins.
6. 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.
7. Add 600 μ L of Wash Buffer 1 to the column and centrifuge at 12,000 rpm for 1 min.
8. Add 500 μ L of Wash Buffer 2 to the column and centrifuge at 12,000 rpm for 1 min to completely remove salts and impurities.
9. 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 center of the column.
10. Centrifuge the column at 12,000 rpm for 2 minutes.
11. 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	Sample input: Too much sample input or significantly less sample used.	Use less input material or increase the volume of the Lysis Buffer for better lysis. Use of $\geq 200\mu\text{L}$ of sample is recommended for good RNA yield.
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.
DNA Contamination	Too much sample used	To remove DNA: Perform in-column DNase I treatment or perform DNase I treatment post-purification (not provided in the kit), then re-purify the treated sample.
RNA Degradation	Use of samples not stored at appropriate conditions	To prevent RNA degradation: Immediately collect and lyse fresh oral swab samples into a Lysis Buffer. Collect and store the fresh oral swab samples in mWRAPR 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:



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