CE IVDR

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AZUL SALIVA RNA EXTRACTION KIT

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

PRODUCT BROCHURE

Cat No-RE109

ISO 13485 CERTIFIED

PRODUCT DESCRIPTION

AZUL Saliva RNA Extraction Kit is an easy and efficient system for the isolation of total RNA from Saliva 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 (LB1)	35 mL	20 mL
Lysis Buffer 2 (LB2)	2 mL	1 mL
Proteinase K	3 mL	2 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)

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SPECIFICATIONS

Format	Spin Column
Sample type	Saliva
Equipment	Microcentrifuge
Processing time	<40 mins
Processing volume	300µL - 1mL
Type	Total RNA
Sample storage	Eluted RNA should be stored at ≤ -20°C
Yield	2 - 10µg
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.*

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RNA EXTRACTION PROTOCOL

1. In a microfuge tube, take around 300 µL - 1 mL of fresh Saliva samples or Saliva stored in mWRAPR Saliva Collection Tubes and add 300 µL - 700 µL of Lysis Buffer 1 (LB1).
2. To the tube, add 25 µL of Lysis Buffer 2 (LB2) and mix briefly by pipetting 2-3 times or vortex for 30 sec.
3. Add 50 µL of Proteinase K, mix well and incubate the tube at 56°C for 15 mins.
4. Centrifuge the tube at 13,000 rpm for 5 mins.
5. Carefully transfer the clear supernatant to a new 1.5 mL microfuge tube. Add 500 µL of Binding Buffer (BB) and mix the tube briefly by inverting it a few times.
6. Transfer 800 µL lysate to the spin column inserted in a collection tube and centrifuge at 12,000 rpm for 2 mins.
7. 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.
8. Add 600 µL of Wash Buffer 1 (WB1) to the column and centrifuge at 12,000 rpm for 1 min.
9. Add 500 µL of Wash Buffer 2 (WB2) to the column and centrifuge at 12,000 rpm for 1 min to completely remove salts and impurities.
10. Transfer the purification column to a clean, sterile microfuge tube and add 30 µL -50 µL of Elution Buffer or DNase/RNase-free water to the center of the column.
11. Centrifuge the column at 12,000 rpm for 2 minutes.
12. Discard the purification column and store the eluted RNA at -20°C or -80°C until use.

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FLOW DIAGRAM OF RNA EXTRACTION PROTOCOL

Saliva Samples

300 µL - 1 mL of Saliva Samples

Add 300 µL - 700 µL Lysis Buffer 1

+

25 µL of Lysis Buffer 2

+

50 µL Proteinase K

Incubate at 56°C for 15 mins

Centrifuge at 13,000 rpm for 5 mins

Transfer clear supernatant to new tube

Add 500 µL Binding Buffer

Mix well

Transfer lysate to Spin column

Centrifuge at 12,000 rpm for 2 mins

Add 600 µL Wash Buffer 1

Centrifuge at 12,000 rpm for 1 min

Repeat this step with 500 µLWash Buffer 2

Add 30 µL - 50 µL Elution Buffer

Centrifuge at 12,000 rpm for 2 mins

Eluted RNA

Store at -20°C or -80°C until use

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 ≥300 µL 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 samples into a Lysis Buffer. Collect and store the fresh samples in mWRAPR Solution to ensure stability & integrity of RNA and process later.

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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

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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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