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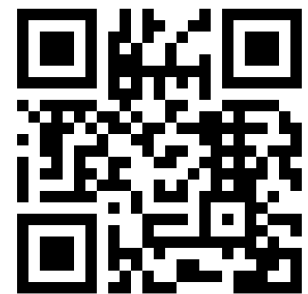
azooka



# AZUL ORAL DNA EXTRACTION KIT

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

## PRODUCT BROCHURE



Cat No-DE123

ISO 13485 CERTIFIED

**PRODUCT DESCRIPTION**

AZUL Oral DNA Extraction Kit is an easy and efficient system for the isolation of total DNA from oral/buccal Samples. This kit uses a silica-based spin column technology for isolating DNA from biological samples, thereby eliminating toxic phenol-chloroform extractions. The eluted DNA 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

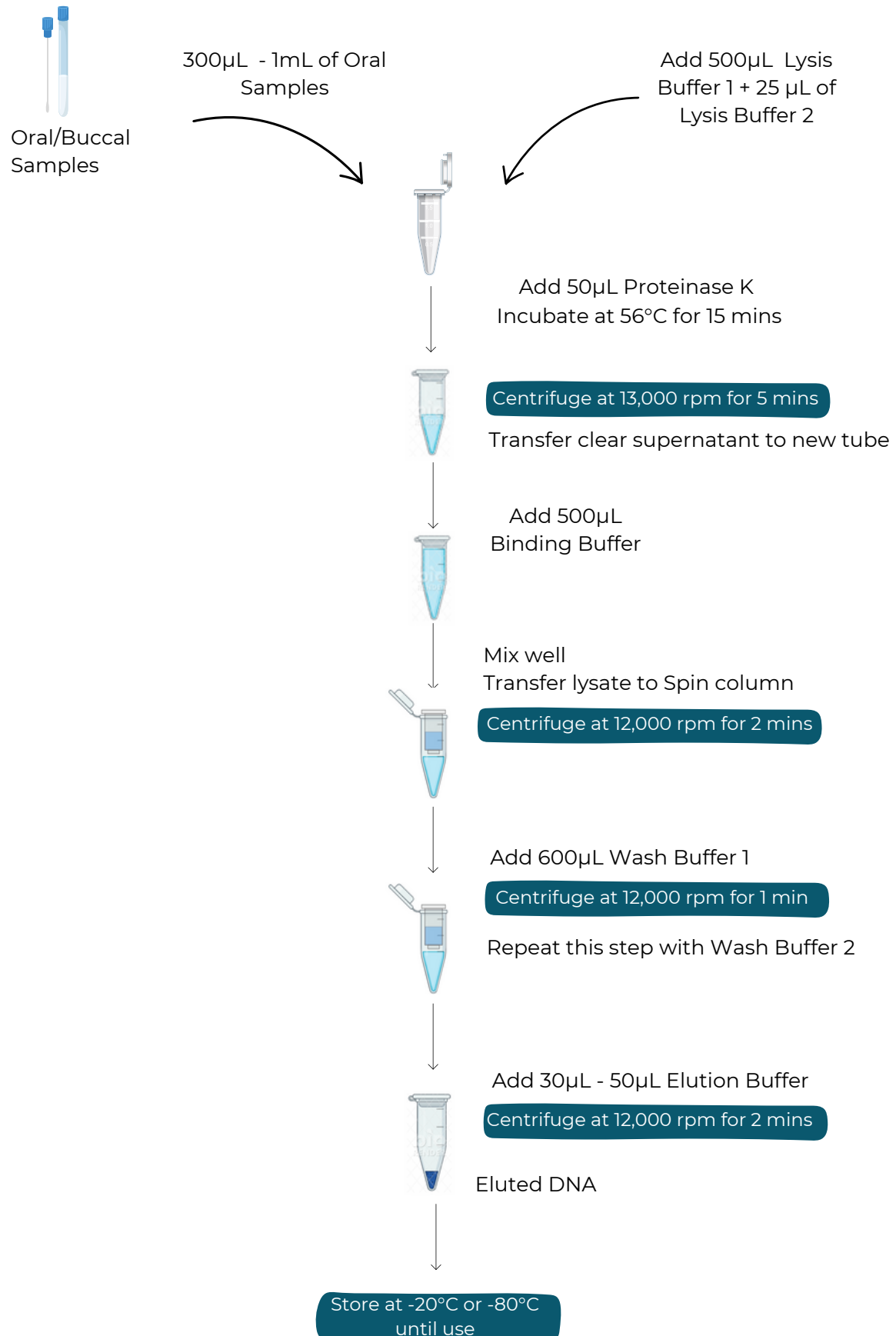
Format	Spin Column
Sample type	Oral/Buccal
Equipment	Microcentrifuge
Processing time	<40 mins
Processing volume	300µL - 1mL
Type	Total DNA
Sample storage	Eluted DNA should be stored at $\leq -20^{\circ}\text{C}$
Yield	2 - 25µg
Purity	$A_{260}/_{280} \geq 1.8$
Kit Storage	Room Temperature
Kit Validity	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.

## DNA EXTRACTION PROTOCOL

1. In a microfuge tube, take around 300 $\mu$ L - 1mL of Oral//Buccal samples collected using swab and stored in mWRAPR Collection Tubes or any other collection medium and add 500 $\mu$ L of Lysis Buffer 1 and add 25 $\mu$ L of Lysis Buffer 2.
2. Mix briefly by pipetting 2-3 times or vortex for 30 sec. Add 50 $\mu$ 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 $\mu$ L of Binding Buffer and mix the tube briefly by inverting it a few times.
5. Transfer 800 $\mu$ 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 $\mu$ L of Wash Buffer 1 to the column and centrifuge at 12,000 rpm for 1 min.
8. Add 500 $\mu$ 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 $\mu$ L -50 $\mu$ 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 DNA at -20°C or -80°C until use.

## FLOW DIAGRAM OF DNA EXTRACTION PROTOCOL



## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SUGGESTED SOLUTIONS
Low DNA Yield	<b>Sample input:</b> 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 DNA yield.
Low DNA 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.
RNA Contamination	Too much sample used	<b>To remove RNA:</b> Perform in-column RNase I treatment or perform RNase I treatment post-purification (not provided in the kit), then re-purify the treated sample.
DNA Degradation	Use of samples not stored at appropriate conditions	<b>To prevent DNA degradation:</b> 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 DNA and process later.

## ORDERING INFO

CATALOG NO	PRODUCT	PREP
DE101	AZUL Tissue DNA Extraction Kit	25/50 preps
DE102	AZUL Animal Cell Culture DNA Extraction Kit	25/50 preps
DE103	AZUL Bacterial DNA Extraction Kit	25/50 preps
DE104	AZUL Plasmid DNA Extraction Kit	25/50 preps
DE105	AZUL Plant DNA Extraction Kit	25/50 preps
DE106	AZUL Soil DNA Extraction Kit	25/50 preps
DE107	AZUL Blood DNA Extraction Kit	25/50 preps
DE108	AZUL Cell-free DNA Extraction Kit	25/50 preps
DE109	AZUL DNA Extraction Kit- Difficult samples	25/50 preps
DE110	AZUL Saliva DNA Extraction Kit	25/50 preps
DE111	AZUL Stool DNA Extraction Kit	25/50 preps
DE112	Quick AZUL Bacterial/Fungal DNA Extraction Kit	25/50 preps
DE113	AZUL Microbiome DNA Extraction Kit	25/50 preps
DE114	AZUL Gel DNA Extraction Kit	25/50 preps
DE115	AZUL FFPE DNA Extraction Kit	25/50 preps
DE116	AZUL Chloroplast DNA Extraction Kit	25/50 preps
DE117	AZUL Mitochondrial DNA Extraction Kit	25/50 preps
DE118	AZUL Pollen DNA Extraction Kit	25/50 preps
DE119	AZUL Fungal DNA Extraction Kit	25/50 preps
DE120	AZUL Sperm DNA Extraction Kit	25/50 preps
DE121	AZUL Skin DNA 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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## 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