

CE IVDR

azooka



# AZUL GEL DNA EXTRACTION KIT

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

## PRODUCT BROCHURE



Cat No-DE114

ISO 13485 CERTIFIED

## PRODUCT DESCRIPTION

AZUL Gel DNA Extraction Kit offers a fast, efficient, and safe method for isolating high-purity DNA from agarose gel slices. Designed for molecular biology research, the kit uses a silica membrane spin column technology, ensuring high yield and purity of DNA free from inhibitors. The extracted DNA is ideal for downstream applications such as PCR, cloning, and sequencing. The kit eliminates the need for toxic solvents like phenol-chloroform, making it a user-friendly, eco-safe option for researchers.

## KIT COMPONENTS

Components	For 50 preps	For 25 preps
Gel Solubilization Buffer	50mL	25mL
Binding buffer(BB)	25mL	13mL
Wash Buffer (WB)	50mL	25mL
Elution Buffer(EB)	4mL	2mL
Spin Column	50 (Pouch pack)	25 (Pouch pack)

## SPECIFICATIONS

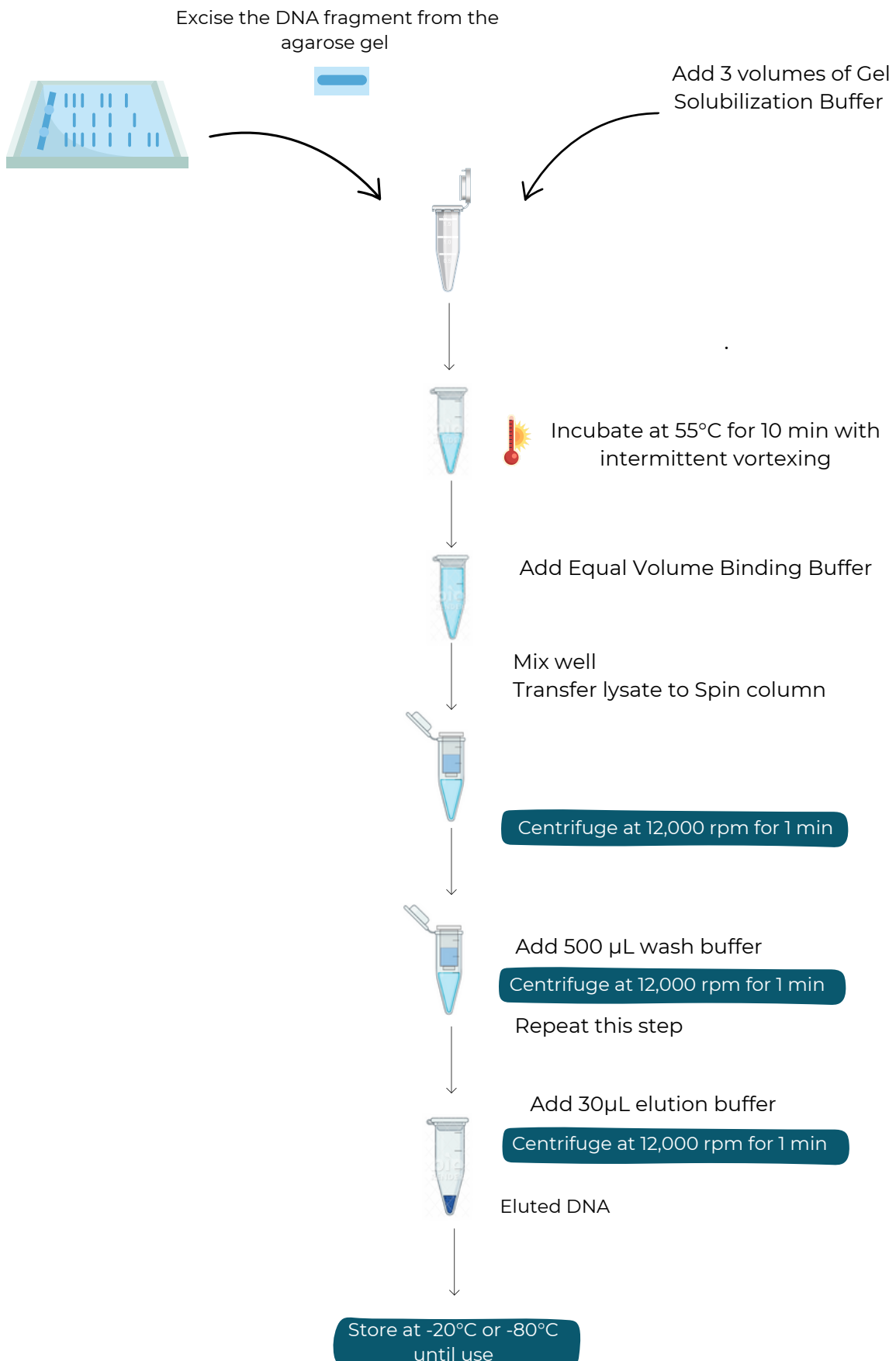
Format	Spin column
Sample type	Agarose Gels, PAGE gels
Equipment	Microcentrifuge
Processing time	<40 mins
Processing Amount	>80 mg
Type	DNA
Sample storage	Eluted DNA should be stored at $\leq -20^{\circ}\text{C}$
Yield	50-400ng/ $\mu\text{L}$
Purity	$A_{260}/A_{280} \geq 1.8$
Kit Storage	Room Temperature
Kit Validity	Viable for 1 year if stored at appropriate conditions

**NOTE:** Check the Binding Buffer for any salt precipitation before every use. Re-dissolve any precipitate by warming the solution to  $37^{\circ}\text{C}$ , then cool it back to room temperature before use.

## DNA EXTRACTION PROTOCOL

1. Excise the DNA fragment from the agarose gel with a clean, sharp scalpel. Minimize the size of the gel slice by removing extra agarose.
2. Weigh the gel slice in a colorless tube. Add 3 volumes of Gel Solubilization Buffer to 1 volume of gel (100 mg ~ 100  $\mu$ l). For example, add 300  $\mu$ l of Gel Solubilization Buffer to each 100 mg of gel. For >2% agarose gels, add 6 volumes of Gel Solubilization Buffer. The maximum amount of gel slice per column is 400 mg.
3. Incubate at 55°C for 10 min (or until the gel slice has completely dissolved). To help dissolve gel, mix by vortexing the tube every 2–3 min during the incubation.
4. After the gel slice has dissolved completely, add equal volume of Binding buffer to the sample and mix.
5. Transfer 800  $\mu$ L lysate to the spin column inserted in a collection tube. Centrifuge at 12,000 rpm for 1 min.
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 500  $\mu$ L of Wash Buffer 1 to the column and centrifuge at 12,000 rpm for 1 min. Repeat this step again.
8. Transfer the purification column to a clean, sterile microfuge tube and add 30  $\mu$ L of Elution Buffer or DNase/RNase-free water to the centre of the column.
9. Centrifuge the column at 12,000 rpm for 1 min.
10. 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 input.	Use less input material
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.

## 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



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