ALPHAGEN® BIOTECH LTD.

α^+ Solution™ Genomic DNA Clean-Up Kit

Kit Contents:

Cat. No:	APGDC 004 (4 preps_sample)	APGDC 050 (50 preps)	APGDC 200 (200 preps)
GC Buffer	1.5 ml x 2	30 ml	120 ml
Wash Buffer (concentrate)[a]	1.0 ml	10 ml	40 ml
Elution Buffer	1.5 ml	15 ml	50 ml
GC Mini Column	4 pcs	50 pcs	200 pcs
Collection Tube	4 pcs	50 pcs	200 pcs
Elution Tube	4 pcs	50 pcs	200 pcs
User Manual	1	1	1
Preparation of Wash Buffer by adding ethanol (96 ~ 100%)			
Ethanol volume for Wash Buffer[a]	4 ml	40 ml	160 ml

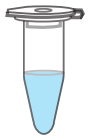
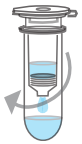
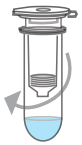
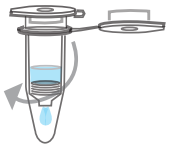
Specification:

Principle:	spin column (silica matrix)
DNA Binding capacity of spin column:	50 µl
Sample size:	up to 100 µl of reaction solution
Recovery:	80%~95%
Operation time:	10 ~ 15 min
Elution volume:	50 µl

Important Notes:

1. Buffer provided in this kit contain irritants. Wear gloves and lab coat when handling these buffer.
2. Add the required volume of ethanol (96~100%) to Wash Buffer before use.
3. Centrifugation steps are done by a microcentrifuge capable of the speed at 10,000 x g.
4. Heat the Elution Buffer to 65 °C before use.

Brief procedure:

Sample Preparation		Add 100 µl of genomic DNA. **Add 500 µl** of GC Buffer.
Binding		Transfer the sample mixture to the GC Column.
Wash		Centrifuge at 10,000 x g for 1 min.
Dry		**Add 750 µl of Wash Buffer.** Centrifuge at 10,000 x g for 1 min.
Elution		Centrifuge(~18,000 x g) for 3 min.
Pure DNA		**Add 50 µl of Elution Buffer** or ddH2O Stand the column for 2 mins Centrifuge(~18,000 x g) for 1 mins.

Genomic DNA Clean-Up Protocol:

Please Read Important Notes Before Starting Following Steps

STEP	PROCEDURE
1 Sample prepare	Transfer **100 µl** of genomic DNA (containing up to **50 µg** of genomic DNA) to a microcentrifuge tube (not provided) and add **500 µl of GC Buffer**, mix well by vortexing. If the volume of genomic DNA is less than **100 µl**, **add ddH_2O to a final volume of 100 µl.**
2 DNA Binding	Transfer the sample mixture to the GC Column. Centrifuge at 10,000 x g for 1 min, then discard the flow-through.
3 Wash	**Add 750 µl of Wash Buffer (ethanol added)** to the GC Column. Centrifuge at 10,000 x g for 1 min, then discard the flow-through.
4 Dry Column	Centrifuge again at full speed (~18,000 x g) for an additional 3 minutes to dry the column matrix.
5 Elution	1. Place the GC Column to Elution tube (provided). 2. **Add 50 µl of Elution Buffer** or ddH_2O to the membrane center of the GC Column. 3. Stand the GC Column for 2 min. 4. Centrifuge at full speed (~18,000 x g) for 1 min to elute the DNA.

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