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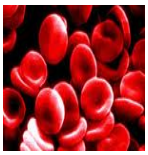
BIOTECH

Column-Pure™ Blood Genomic DNA Kit

Cat. No. D483-100



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456A Sovereign Ct.
St. Louis, MO 63011
Tel: 1-800-631-5009
Fax: 1-800-747-5609

E-mail: Orders@LamdaBio.com

www.Lamdabio.com

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Catalog No.: D483-100

Product Name: **Column-Pure™ Blood Genomic DNA Kit**

Size: **100 preps**

Description: This is a quick and easy spin column method for isolation of genomic DNA from blood. The kit is designed to isolate genomic DNA from 300µl to 500µl whole blood. The purified genomic DNA is of suitable quality for many molecular biology applications, such as: PCR, restriction digestion, and other downstream applications.

Kit Contents:

TBP Buffer	2x120ml	Wash Solution	2x12ml
TBM Buffer	2x25ml	Elution Buffer	2x5ml
TE (pH 8.0)	2x15ml	EZ10-Spin Column	2x50
Proteinase K	2x2mg		

Storage: Store all Buffers/Solutions at room temperature; keep Proteinase K at -20°C.

Caution:

Do not inhale or swallow.

Keep away from food, drink, and animal feed.

Keep out of children's reach.

In case of accidental exposure, seek immediate medical attention.

All MSDS are available on request.

Protocol

Procedure for Extraction of Genomic DNA from Blood

1. **A**. Before use, note that TBM Buffer may form a precipitate upon storage; if necessary, dissolve the precipitate by warming at 37°C.
   B. Before use, add 160µl of water to the tube containing 2mg of Proteinase K. Keep at -20°C for long term storage.
   C. Before use, add 48ml of 100% ethanol to the 12ml Wash Solution and mix well.

2. Harvest the appropriate 300µl to 500µl of whole blood in a microcentrifuge tube by centrifugation at 1,500 x g (or 3,000 rpm) for 3 minutes. Discard supernatant.

3. Add 0.8ml TBP Buffer to the tube, and vortex gently. Spin at 1,500 x g (or 3,000 rpm) for 3 minutes. Discard supernatant. Repeat this step one more time.

4. Add 0.5ml TBM Buffer to the centrifuge tube. Vortex the tube vigorously and then add 3µl Proteinase K. Incubate at 55°C for 30 minutes.

5. Centrifuge for 2 minutes at 2,500 x g (or 5,000 rpm).

6. Transfer the supernatant to a new microcentrifuge tube; add 250µl absolute ethanol, and mix.

7. Apply the mixture to the Spin Column and centrifuge at full speed for 2 minutes. Discard the flow-through.

8. Add 500µl of Wash Solution, and centrifuge the tube for 1 minute and discard the flow-through. Repeat this step one more time.

9. Centrifuge the tube for an additional minute to remove any residual Wash Solution.

10. Place the column into a clean 1.5ml centrifuge tube. Add 30-50µl Elution Buffer to the center of the membrane in the column. Incubate the tube at room temperature for 5 minutes.

    Note: Incubating the tube at 37 or 50°C may increase DNA yield.

11. Centrifuge in a microcentrifuge for 1 minute to elute DNA from the column.

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Related Products

Column-Pure™ DNA Gel Recovery Kit, Cat No. D507
Column-Pure™ PCR Clean-Up Kit, Cat. No. D509
100bp DNA Ladder, Cat. No. M107
1Kb DNA Ladder II, Cat. No. M108
Standard-Agarose, Cat. No. A113

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