

GENELUTE BACTERIAL GENOMIC DNA KIT PROTOCOL

I. Gram Negative Bacteria

Whole Blood



Pure Whole Blood Genomic DNA

1 Harvest cells

- ❑ Pellet 1.5 ml of bacterial broth culture at 12,000-16,000 $\times g$ for 2 minutes, discard media. When using enriched media please refer to technical bulletin.

2 Resuspend cells

- ❑ Resuspend pellet in 180 μl Lysis Solution T.
Optional: Add 20 μl RNase A, incubate RT for 2 min.

3 Lyse cells

- ❑ Add 20 μl Proteinase K to cell suspension, vortex or pipet to mix. Incubate at 55 $^{\circ}\text{C}$ for 30 min.
- ❑ Add 200 μl Lysis Solution C, vortex or pipet to mix. Incubate at 55 $^{\circ}\text{C}$ for 10 min.

4 Prepare column

- ❑ Add 500 μl of Column Preparation Solution to each binding column.
- ❑ *Spin at $\geq 12,000 \times g$, for 1 min.* Discard flow-through.

5 Bind DNA to column

- ❑ Add 200 μl ethanol to the lysed cells, vortex or invert to mix.
- ❑ Transfer EtOH mixture to binding column. *Spin at $\geq 6500 \times g$ for 1 min.*

6 Wash column

- ❑ Transfer column to new collection tube. Add 500 μl Wash Solution O to column. *Spin at $\geq 6500 \times g$ for 1 min.*
- ❑ Transfer column to new collection tube. Add 500 μl Wash Solution to column. *Spin at $\geq 12,000 \times g$ for 3 min. to dry column.*

7 Elute DNA

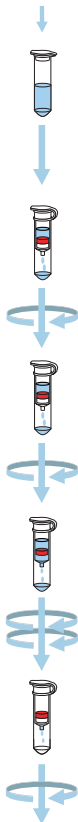
- ❑ Transfer column to new collection tube. Add 200 μl of Elution Solution. *Spin at $\geq 6500 \times g$ for 1 min.*
Optional: Repeat in new or same tube.

Please refer to the technical bulletin for additional information.



GENELUTE BACTERIAL GENOMIC DNA KIT PROTOCOL

Whole Blood



Pure Whole Blood Genomic DNA

I. Gram Positive Bacteria

- **Prepare Lysozyme Solution (Lysozyme sold separately - Product Code L 7651)**
Prepare a 2.115×10^6 unit/ml Lysozyme Solution using the included Gram Positive Lysis Buffer as the diluent. 200 μ l of Lysozyme Solution is needed for each prep. Make extra to account for pipetting error.

1 Harvest cells

- Pellet 1.5 ml of bacterial broth culture at 12,000-16,000 $\times g$ for 2 minutes, discard media. When using enriched media please refer to technical bulletin.

2 Digest cell wall

- Resuspend pellet in 200 μ l Lysozyme Solution and incubate at 37 °C for 30 min.
Optional: Add 20 μ l RNase A, incubate RT for 2 min.

3 Lyse cells

- Add 20 μ l Proteinase K and 200 μ l Lysis Solution C to cell suspension, vortex or pipet to mix. Incubate at 55 °C for 10 min.

4 Prepare column

- Add 500 μ l of Column Preparation Solution to each binding column.
- Spin at $\geq 12,000 \times g$, for 1 min. Discard flow-through.

5 Bind DNA to column

- Add 200 μ l ethanol to the lysed cells, vortex or invert to mix.
- Transfer EtOH mixture to binding column. Spin at $\geq 6500 \times g$ for 1 min.

6 Wash column

- Transfer column to new collection tube. Add 500 μ l Wash Solution O to column. Spin at $\geq 6500 \times g$ for 1 min.

7 Repeat wash

- Transfer column to new collection tube. Add 500 μ l Wash Solution to column. Spin at $\geq 12,000 \times g$ for 3 min. to dry column.

8 Elute DNA

- Transfer column to new collection tube. Add 200 μ l of Elution Solution. Spin at $\geq 6500 \times g$ for 1 min.
Optional: Repeat in new or same tube.

Please refer to the technical bulletin for additional information.

