

Bacterial Genomic DNA Purification Kit

Product	Catalog #	Purifications
Bacterial Genomic DNA Purification Kit	85171	50

Description

Bacterial Genomic DNA Purification Kit is intended for use in the rapid isolation of genomic DNA from up to 5 ml of bacterial culture.

Kit Components	Part No.	Amount
Spheroplast Buffer	4050028	25 ml
Lysis 1	4050031	6 ml
Lysis 2	4050030	6 ml
Advamax™ Beads	4050142	6 ml
Extraction Buffer	4050029	6 ml

Equipment and Materials Required

1. Microcentrifuge capable of reaching $\geq 10,000 \times g$
2. 2-ml tube
3. Isopropanol
4. 70% ethanol

Storage and Stability Conditions

Spheroplast Buffer must be stored at -20°C and thawed before use. The other components of the Bacterial Genomic DNA Purification Kit may be stored at 4°C . The kit is stable for up to 6 months under these conditions.

Quality Control

Tested for DNA quality in an overnight culture of *E. coli*. Each sample is analyzed by agarose gel electrophoresis.

Recommended Protocol

1. Centrifuge bacteria to obtain pellet (~50 mg). Discard supernatant.
2. Add 400 μl of Spheroplast Buffer and vortex at highest speed to resuspend pellet.
3. Incubate 10 minutes at 37°C .
4. Add 100 μl of Lysis 1.
5. Add 100 μl of Lysis 2, mix and incubate 5 minutes at 65°C .
6. Add 100 μl of Advamax Beads.
7. Add 100 μl of Extraction Buffer.
8. Shake 2–3 minutes or vortex 10 seconds.
9. Centrifuge in a microcentrifuge at the highest speed for 3 minutes
10. Transfer supernatant to a clean 2-ml tube.
11. Add equal volume of isopropanol and invert several times to mix.
12. Pellet DNA by centrifugation for 10 seconds.
13. Wash DNA with 70% ethanol and dry.

Warning: This product is intended for **research use only**. It is not to be used for diagnostic purposes in humans or animals.



TEL: 800-326-2685 OR 301-990-2685 * FAX: 301-990-0881
 19208 Orbit Drive, Gaithersburg, MD 20879-4149
 E-MAIL: Info@edgebio.com * INTERNET: <http://www.edgebio.com>