Plasmid DNA Rapidprep Mini Kit (Catalog# TBS6011)
For purification of up to 30 µg plasmid DNA

DESCRIPTION

Tribo™ Plasmid DNA Rapidprep Mini Kit provides a fast, simple, and cost-effective plasmid DNA preparation method for routine molecular biology laboratory applications. This Rapidpep Mini Kits uses glass microfiber membrane and Clear filter to combine the lysate clearance and the plasmid DNA binding into one step. This combination significantly increases the purity and yields of plasmid, and shortens 50% of the processing time in comparison to current similar products in the market. The procedure can be finished in 10 minutes.

This kit can be ideally used to isolate and purify the plasmid less than 10kb. The efficiency may be reduced with the size increasing.

APPLICATIONS

- Isolate and purify plasmid DNA from 1~ 3 ml of E. coli culture media.
- DNA can be directly used for PCR, cloning, sequencing, cell transfection, enzymatic analysis without further manipulation.

KIT CONTENTS

Part	Size
Spin Column and Clear Filiter Assemble Unit	200
Buffer 1 (B1)	60 mL
Buffer 2 (B2)	60 mL
Buffer 3 (B3)	90 mL
Buffer 4 (B4)	120 mL
Buffer 5 (B5)	250 mL
Buffer 6 (B6)	30 mL
RNase A (20 mg/ml)	0.3 mL

STORAGE CONDITIONS

Plasmid DNA Rapidprep Mini Kit is shipped at room temperature. The buffer 1 with RNase A is suggested at 4°C. All other components are stable at room temperature. Shelf life is12 months after receipt.

KEY FEATURES

High purity and yields: The kit utilizes glass microfiber membrane and Clear Filter column to increase the purity and yields of plasmid.

Rapid: Clear Filter column is assembled with spin column to combine the lysate clearance and plasmid DNA binding into one step. The 10 minutes or 50% time will be saved comparing to the similar products in the market.

PROTOCOL

1. 1. Pellet 1~ 3 ml of the bacterial culture by spin for 1 min at 13000 x g. Discard the supernatant.
2. 2. Resuspend pelleted bacterial cells completely in 170 µL of Buffer 1 (Note: Add RNase A solution into Buffer 1 before the first use, and store it at 4°C.
3. 3. Add 170 µL of Buffer 2 and mix by inverting the tube 4~5 times (DO NOT VORTEX). Incubate until the cell suspension becomes clear and viscous, but DO NOT OVER 5 min.
4. Add 250 µL of Buffer 3 and immediately mix by inverting the tube 4~5 times (DO NOT VORTEX).
5. Transfer all of the lysate to Clear Column stack by pipetting. Vaccum or Spin 30 ~ 60 sec. Discard the upper Clear Column unit, Discard the pass-through fraction from the collection tube. Re-insert the spin column to the same collection tube.
6. Wash the spin column by adding 500 µL of Buffer 4, and vaccum or spin for 30 sec. Discard the pass-through fraction from the collection tube. Re-insert the spin column to the same collection tube.
7. Wash the spin column by adding 700 µL of Buffer 5, and vaccum or spin for 30 sec. Remove the spin column, discard the pass-through, and re-insert the spin column to the same collection tube.
8. Spin for an additional 1 min to remove residual wash buffer. Place the spin column to a new 1.5 mL tube (Not provided).
9. Elute DNA by adding 50 µL of Buffer 6 or deionized water, let stand for 1 min, and spin for 1 min.

RELATED PRODUCTS

PCR DNA Rapid prep Mini kit (Catalog# TBS6012)
Fast DNA Extraction kit (Catalog# TBS6008)
2x PCR Hot Start Master (Catalog# TBS4002)
2x Genotyping PCR kit (Catalog# TBS4003)
2x Regular PCR Kit (Catalog#TBS4004)

This product is for *in vitro* research use only, but not for use in humans or animals in therapeutic or diagnostic procedures.

4062 Fabian Way, Suite 1, Palo Alto, CA 94303, USA Website: www.tribioscience.com
Tel: 650-917-9269, Fax: 650-618-5498 Email: order@tribioscience.com