

## Plasmid DNA Rapidprep Mini (Store at RT, Catalog#TBS6011)

### Clearance and DNA binding into One-step

Catalog	Kit Size
TBS6011-50	50 Samples
TBS6011-200	200 Samples

### DESCRIPTION

Tribo™ Plasmid DNA Rapidprep Mini Kit provides a fast, simple, and cost-effective plasmid DNA preparation method. The main feature of the kit is that it uses a novel technology to combine clear filter and mini column into one set to combine the lysate clearance and the plasmid DNA binding into one step (Fig.1). This unique modification dramatically increases the purity and yield rate 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 plasmids less than 10 kb. The purification yield is up to 30 µg of plasmid DNA. Efficiency may be reduced as the size increases.

### KIT CONTENTS

Part	TBS6011-50	TBS6011-200
Clear Filter Column (small one)	50	200
DNA Mini Column (includes Column D & Collection Tube)	50	200
Buffer 1 (B1)	20 mL	60 mL
Buffer 2 (B2)	20 mL	60 mL
Buffer 3 (B3)	25 mL	90 mL
Buffer 4 (B4)	19 mL	69 mL
Buffer 5 (B5)	12 mL	50 mL
Buffer 6 (B6)	15 mL	30 mL
RNase A (20 mg/ml)	0.1 mL	0.3 mL

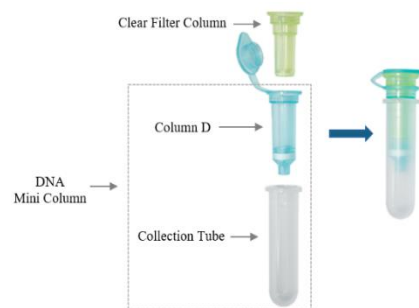


Fig.1 Clear Filter Column and DNA Mini Column Assembling Set

### STORAGE CONDITIONS

Store at room temperature for shelf life of 12 months after receipt. The buffer 1 (B1) with RNase A is suggested at 4°C.

### KEY FEATURES

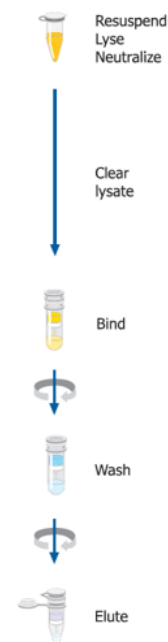
**Rapid:** 10 minutes or 50% time will be saved compared to similar products in the market.

**Unique:** Assemble the Clear Filter column and the DNA Mini Column together to make the lysate clearance and plasmid DNA binding into 1 step.

**High purity and yields:** The kit utilizes high binding Column D to increase the purity and yields of the plasmid.

### PROTOCOL

1. Pellet 1~ 3 ml of the bacterial culture by spinning for 1 min at 10000 x g. Discard the supernatant.
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. 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. Insert the Clear Filter Column into the DNA Mini Column as **Fig.1**. Transfer the entire lysate into the Clear Filter Column. Apply vacuum or centrifuge for 30–60 seconds. Then, discard the upper Clear Filter Column. Remove the Column D from the Collection Tube and discard the pass-through liquid from the collection tube. Re-insert the Column D into the same Collection Tube for the next step.
6. Wash the Column D by adding 500 µL of Buffer 4, and vacuum or spin for 30 sec. (Note: Make 110 mL by adding 41mL of abs. ethanol before the first use). Discard the pass-through liquid from the Collection Tube. Re-insert Column D to the same Collection Tube.
7. Wash Column D by adding 700 µL of Buffer 5, and vacuum or spin for 30 sec. (Note: Make 250 mL by adding 200 mL of abs. ethanol before the first use). Remove Column D, discard the pass-through liquid, and re-insert Column D to the same Collection Tube.
8. Spin for an additional 1 min to remove residual wash buffer. Place Column D 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.
10. The Elute in the tube is the plasmid DNA. It can be stored at -20 °C for further analysis.



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### RELATED PRODUCTS

Fast DNA Extraction kit (TBS6008)	1.25M Calcium Chloride (TBS5071)
2x Fast Sybr Green Probe qPCR Master mix (TBS4001)	2.5M Calcium Chloride (TBS5072)
2x Fast Taqman Probe qPCR Master mix (TBS4002)	2x HBS, pH 7.05 (TBS5076)
2x Genotyping PCR kit (TBS4003)	LB Medium (TBS8056)
2x Regular PCR Kit (TBS4004)	SOB Medium (TBS8057)
Long Flash PCR Master Mix (TBS4044)	SOC Broth Medium (TBS8058)
Pfu PCR Master Mix (TBS4012)	2x YT Broth Medium (TBS8059)

**For research use only**