



GenTarget's Eco™ Plasmid DNA Miniprep Kit User Manual

Catalog Number: DP-100

(100 preps)

Kit Contents:

Items	Amount
Resuspension Buffer	25 ml
Lysis Buffer	25 ml
Binding Buffer	35 ml
Wash Buffer	80 ml
Elute Buffer	15 ml
Spin Columns	100
2ml-Collection Tubes	100
Elute Tubes	100

Storage:

Upon receipt, store all components at room temperature, except the Resuspension Buffer which should be stored at +4°C. When stored appropriately, products are stable for at least 6 months.

Product Specification:

This Plasmid DNA Miniprep Kit contains all components for 100 DNA mini purifications. All items are prepared in **ready-to-use** format, **no need to add any components to buffers**. Each column has 20ug of DNA binding capacity (actual yield is dependent upon the plasmid). And each column is individually capped to prevent potential cross contamination during centrifugation. If Lysis Buffer precipitates (this normally occurs at low temperature), warm it at 37°C for 5 minutes to clear the precipitation prior to use.

Guarantee:

This kit was validated for isolation of high quality plasmid DNA, good for most downstream applications (see Fig.1 below), such as transfection, sequencing and cloning. Customer satisfaction is guaranteed. If you are unhappy with this product, you may return the purchased items for a full refund within 30 days of purchase.

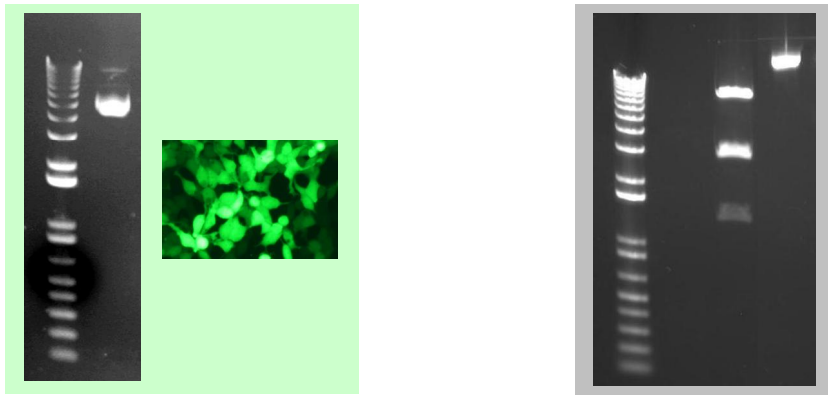


Fig.1: Left panel showed the quality of the purified GFP expressing plasmid and its transfection result into 293F cells (400ng in 24-well plate). Right panel showed a purified 15kb plasmid and its restriction digestion by BamHI.

Introduction:

This DNA miniprep kit was designed based on alkaline lysis of bacterial cells followed by binding of DNA onto silica membrane in column. The cell debris, genomic DNA and RNA were precipitated prior to the binding and further cleaned by the unique wash buffer. High purity plasmid DNA was eluted in 10mM Tris-HCl buffer (alternatively, could in TE or water).

Purification Procedure:

1. Collect cell pellets from 1~5 ml of overnight cultured E. Coli cells by centrifugation;
2. Add 250 μ l of Resuspension Buffer into the pellets, completely resuspend the pellet;
3. Add 250 μ l of Lysis Buffer to the above solution. Mix gently by inverting the tubes several times (DO NOT VORTEX), leave it at room temperature for 3 minutes;
4. Add 350 μ l of Binding Buffer, and mix gently by inverting the tube several times, centrifuge at 14000 rpm for 10 minutes in a tabletop centrifuge;
5. Pipette the supernatant into a spin column that place inside a 2-ml collection tube, centrifuge the column at room temperature at 14000 rpm for 1 minute, discard the flowthrough, and place the column back in the tube;
6. Add 650 μ l of Wash Buffer, centrifuge the column at room temperature at 14000 rpm for 1 minute. Discard the flowthrough, and place the column back in the tube, centrifuge the column for 2 minutes;
7. Place the spin column in a clean elution tube, add 50 μ l of Elute Buffer, incubate the column at room temperature for more than 1 minute, then centrifuge at 14000 rpm for 1 minute.
8. The elution tube contains your purified DNA.