FastPure EndoFree Plasmid Maxi Kit

Cat. No. NB-54-0209 size: 10 rxn

Introduction

This kit is suitable for extracting plasmid from 150-300 mL of the bacterial solution cultured overnight, using an improved SDS-alkaline lysis method to lyse the bacteria. The crude extract is selectively combined with a unique Endotoxin Scavenger and separated by centrifugation to remove endotoxins. Then, the silicon matrix membrane in the centrifugal adsorption colun selectively binds to plasmid DNA in the solution under conditions of high salt and low pH. This is followed by addition of wash buffer to remove impurities and other becterial components. Finally, a low-salt, high-pH elution buffer is used to elute pure plasmid DNA from the silicon matrix membrane. The silicon matrix membrane in centrifugal adsorption column employs imported special adsorption membrane, and the adsorption amount difference between the column and the column is very small and the repeatability is well. Phneol, chloroform and other toxic reagents are not required, and neither is ethanol required for precipitation. This kit can be used to rapidly extract 0.2-1.5 mg of pure high-copy plasmid DNA, with an extraction rate of 80% - 90%. The unique process formula removes endotoxin, the content of endotoxin is extremely low and the cell transfection effect is excellent. The extracted plasmid could be directly used in enzymatic digestion, PCR, in vitro transcription, transformation, sequencing and other molecular biology experiments.

Components

Components	NB-54-0209 (10 rxns)
RNase A	750 µl
Buffer P1	75 ml
Buffer P2	75 ml
Buffer P4	75 ml
Endotoxin Scavenger	25 ml
Buffer PW	2 × 22 ml
Buffer TB	20 ml
FastPure DNA Maxi Columns (each in a 50 ml Collection Tube)	10
Endotoxin-free Collection Tube	2 × 5

RNase A: 10 mg/ml, used to remove RNA;
Buffer P1: bacterial suspension buffer, add RNase A to Buffer P1 before first use;
Buffer P2: bacterial lysis buffer (containing SDS/NaOH);
Buffer P4: neutralizing buffer;
Endotoxin scavenger: effectively remove endotoxin from the crude plasmid extract;
Buffer PW: wash buffer, add the stipulated volume of ethanol before first use;
Buffer TB: elution buffer;
FastPure DNA Maxi Columns: plasmid DNA adsorption columns;
Collection Tubes 50 ml: filtrate collection tubes.

Storage

RNase A should be stored at -30 ~ -15℃ and transported at ≤0℃;
Endotoxin Scavenger can be stored at 2 ~ 8℃ for one month, stored at -30 ~ -15℃ for long-term storage and transported at ≤0℃;
Other components should be stored at room temperature (15 ~ 25℃) and transported at room temperature.

Application

This product is suitable for large-scale extraction of plasmids from 150 - 300 ml of bacterial solution cultured overnight.

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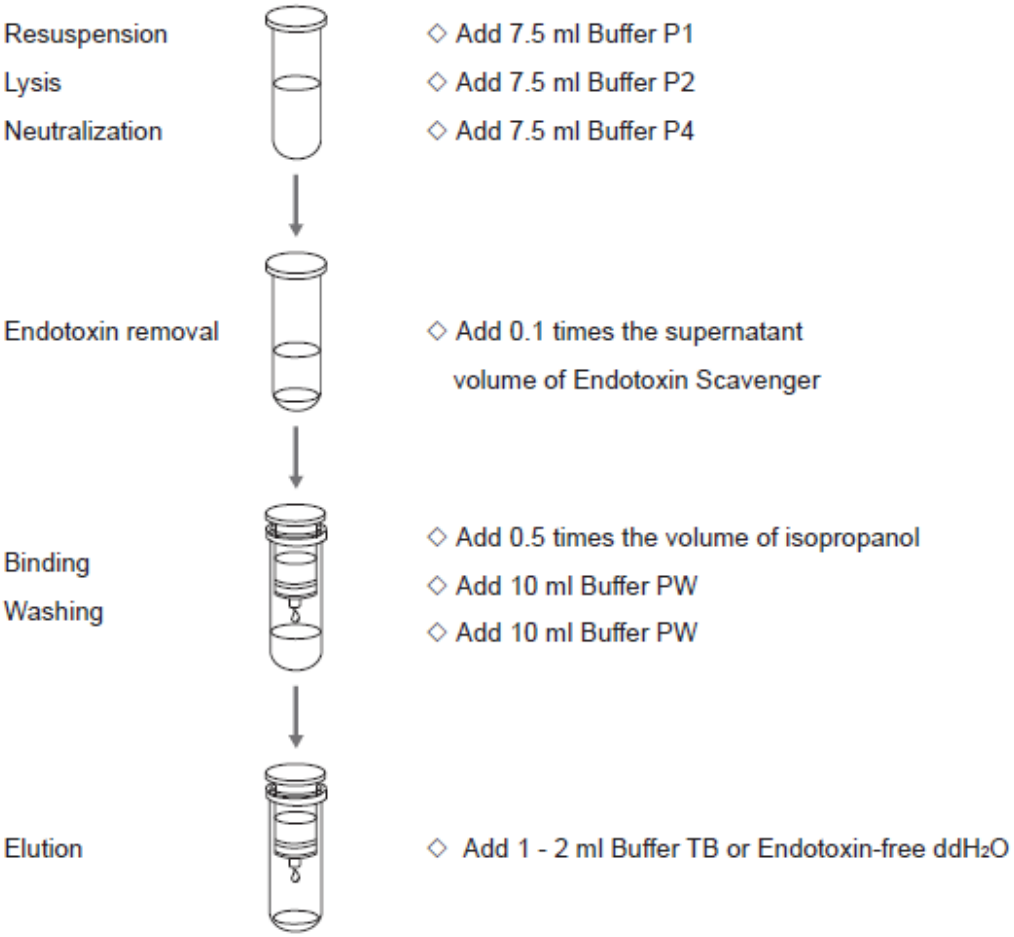
Self-prepared Materials

Absolute ethanol, isopropanol, 50 ml round-bottom centrifuge tubes and 50 ml endotoxinfree centrifuge tubes.

Mechanism / Workflow



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Please ask for the complete manual.