NAP-Plasmid DNA

1. Why was there a decrease in the plasmid DNA recovery quantity?

Please confirm and follow the manual's instructions accordingly. There would not be a sufficient amount of plasmid if the lysis step was not performed thoroughly.

Elution buffer<pH7.0, it was unable to confirm the eluted plasmid.

If the cultured bacterial species exhibited a low copy number of plasmid, the bacterial culture volume needed to be increased. Plasmid lost in E.coli, please re-culture with the freshly prepared bacteria. Elution buffer, pre-heat at 70°C.

2. Why was the RNA contamination present?

Please make sure RNase A was added into the Buffer M1 and stored at 4°C.

3. Why was the Inhibition of downstream enzymatic reactions present?

It indicated the residual presence of alcohol. After adding the wash Buffer2 , re-centrifuge for the Centrifuge Step or place the column in the oven at 60°C for 10 minutes. For the RNA or DNA interference, remove and clean it well.

4. Why were there smeared plasmid bands on the agarose gel?

It indicated plasmid DNA degradation. Please shake it carefully when performing it. Keep plasmid preparations on ice.

5. Why was there poor plasmid quality?

Do not overgrow bacterial cultures. Do not incubate more than 5 minutes after adding the Buffer M1.