

Maxiprep

Description

QIAGEN® Plasmid Plus Maxi Kit (cat. nos. 12963) is used to isolate and purify plasmids DNA from overnight bacterial cultures at a large scale for further transfection and transduction. Isolation procedures procedure of the kit is performed using a silica-based membrane within the spin column. Experiments are conducted according to the Quick-Start Protocol provided by the manufacturer (QIAGEN).

Quick-Start Protocol provided by the manufacturer:

https://www.google.com.hk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwiv1tbpp836AhUBBt4KHbLYCx8QFnoECAwQAQ&url=https%3A%2F%2Fwww.qiagen.com%2Fus%2Fresources%2Fdownload.aspx%3Fid%3Ddef7a04d-9d1a-439e-acfc-8d4efc66aef8%26lang%3Den&usg=AOvVaw28pPM_KsW3rLIMdJgJHz3

Notes to optimize maxiprep efficiency/Alternatives for performing the experiment:

1. Perform the producers using high-yield protocol.
2. Centrifuge the sample for 8000rpm for 30 mins at 22°C right after step 4, transfer only the supernatant to the QIAfilter cartridge in step 5 and avoid transferring debris pellet.
3. If debris can be seen in filtered cell lysate after step 7, centrifuge the cell lysate again and transfer the supernatant to another 50 mL conical tube.
4. QIAvac 24 Plus used in step 9 and 10 can be replaced by Labfil 100 portable suction system with the use of 1000 µL pipette tips
5. Preheat buffer EB to 55°C before DNA elution in step 14