

FIBERLite[®] Conical Tube Rotors Used In Qiagen[®] Plasmid Midi and Maxi Protocol

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The Qiagen[®] Plasmid midi and maxi protocol was designed by Qiagen[®] Inc., Valencia, CA and published in Qiagen[®] Plasmid Purification Handbook 09/2000. The procedure was carefully followed through the first six steps. Precipitation of the genomic DNA, proteins, cell debris and SDS in the crude lysate was enhanced by using Buffer P3 as reported in the Handbook. Instead of loading the crude lysate directly onto a Qiagen column as described in the procedure, the lysate containing the plasmid DNA was transferred to either Corning[®], Falcon BD[®] or Greiner[®] 50 ml conical tubes and placed in the FIBERLite[®] F15-8x50c or F13-14x50c rotors. The tubes were spun at 25,000 x g for 30 min at 4°C. Removal of the particulates from the crude lysate by centrifugation simplified the collection of plasmid DNA by allowing for faster and more consistent use of the gravity fed Qiagen column.

The rotors shown to the right are the FIBERLite[®] conical tube rotors that can be used for the collection of the plasmid DNA.

After centrifugation, the Qiagen protocol was followed. The plasmid DNA from the cleared lysate was collected and eluted from a Qiagen column. The DNA was then precipitated with 70% ethanol at room temperature then centrifuged at 25,000 x g for 10 min. The supernatant was carefully decanted without disturbing the recovered plasmid DNA pellet. The plasmid DNA pellet was air dried for 5 – 10 min and re-dissolved in a suitable volume of buffer.

In all the procedures FIBERLite[®] conical tube rotors with disposable conical tubes can be used at the maximum speeds. These rotors can be used in Beckman, Sorvall and Vortex series High/Super Speed centrifuges.



Rotor Model: F13-14x50c



Rotor Model: F15-8x50c

For Further Information:

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