

MIDI Fast-Ion Plasmid Columns

FOR RESEARCH USE ONLY



SCIENTIFIC

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ISO 9001 Certified

Protocol

Sample _____ Up to 50ml of cultured bacterial cells for High-Copy Plasmid
Up to 100ml of cultured bacterial cells for Low-Copy Plasmid

Yield _____ Up to 250µg of plasmid DNA

Operation _____ Gravity flow

Operation Time _____ 120 minutes or less

Purity _____ Equal to that obtained by 2XCsCl-Gradient Centrifugation

K I T C O N T E N T S

Component	IB47115	IB47116
MIDI Column _____	10 _____	25 _____

INTRODUCTION

IBI replacement MIDI Plasmid Columns use a pre-packed ion-exchange resin to purify plasmid DNA from 50-100ml of cultured bacterial cells. In this process, the modified alkaline lysis method and RNase treatment are used for creating clear lysate with minimal genomic DNA and RNA contamination. IBI replacement MIDI columns can be used with reagents from competitive MIDI plasmid kits that also use a lysis method. IBI replacement MIDI plasmid columns utilize gravity flow for equilibration of the column, DNA binding, washing, and elution. The purified plasmid DNA is then eluted from the column using a high-salt buffer and precipitated with isopropanol for de-salting.

QUALITY CONTROL

The quality of the IBI MIDI Plasmid Columns are tested on a lot-to-lot basis by isolating plasmid DNA from a 50ml overnight *E. coli* (DH5a) culture, containing plasmid pBluescript (A600 > 2µ/ml). More than 120µg of plasmid DNA is quantified with a spectrophotometer. The purified plasmid (1µg) is used in EcoR I digestion, and checked by electrophoresis.

ORDER INFORMATION

IB47115 _____ MIDI Fast-Ion Plasmid Columns - 10 Pack
IB47116 _____ MIDI Fast-Ion Plasmid Columns - 25 Pack

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IB47080 _____ PCR/Gel DNA Fragment Extraction Columns & Collection Tubes–25 Pack
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IB47126 _____ MAXI Fast-Ion Plasmid Columns–10 Pack
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Lab Unlimited
CARL STUART GROUP

Tallaght Business Park
Whitestown, Dublin 24,
Ireland
D24 RFK3

Tel: (01) 4523432
Fax: (01) 4523967
E-mail: info@labunlimited.com
Web: www.labunlimited.com

Quatro House, Frimley Road,
Camberley,
United Kingdom
GU16 7ER

Tel: 08452 30 40 30
Fax: 08452 30 50 30
E-mail: info@labunlimited.co.uk
Web: www.labunlimited.co.uk