

# MIDI Fast-Ion Plasmid Columns

FOR RESEARCH USE ONLY



SCIENTIFIC

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## 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

#### ALSO CHECK OUT THESE PRODUCTS

**IB47080** \_\_\_\_\_ PCR/Gel DNA Fragment Extraction Columns & Collection Tubes–25 Pack  
**IB47081** \_\_\_\_\_ PCR/Gel DNA Fragment Extraction Columns & Collection Tubes–50 Pack  
**IB47082** \_\_\_\_\_ PCR/Gel DNA Fragment Extraction Columns & Collection Tubes–100 Pack  
**IB47105** \_\_\_\_\_ MINI High-Speed Plasmid Columns & Collection Tubes–25 Pack  
**IB47106** \_\_\_\_\_ MINI High-Speed Plasmid Columns & Collection Tubes–50 Pack  
**IB47107** \_\_\_\_\_ MINI High-Speed Plasmid Columns & Collection Tubes–100 Pack  
**IB47205** \_\_\_\_\_ MINI Genomic DNA Columns & Collection Tubes–25 Pack  
**IB47206** \_\_\_\_\_ MINI Genomic DNA Columns & Collection Tubes–50 Pack  
**IB47207** \_\_\_\_\_ MINI Genomic DNA Columns & Collection Tubes–100 Pack  
**IB47126** \_\_\_\_\_ MAXI Fast-Ion Plasmid Columns–10 Pack  
**IB47127** \_\_\_\_\_ MAXI Fast-Ion Plasmid Columns–25 Pack