

# Mag-Bind® Endo-free Plasmid Mini Kit

Automation-friendly purification of endotoxin-free plasmid DNA from up to 1.5 mL culture volumes



## Endotoxin-free

Transfection-quality  
plasmid DNA with  
endotoxin levels < 0.1 EU/  
µg



## High-Yielding

Up to 20 µg plasmid DNA  
from 1.5 mL TB culture



## Fully Automatable

Magnetic beads clear  
lysate, avoiding manual  
centrifugation step



## Versatile

Process up to 1.5 mL of  
different culture medias  
with different plasmid  
types

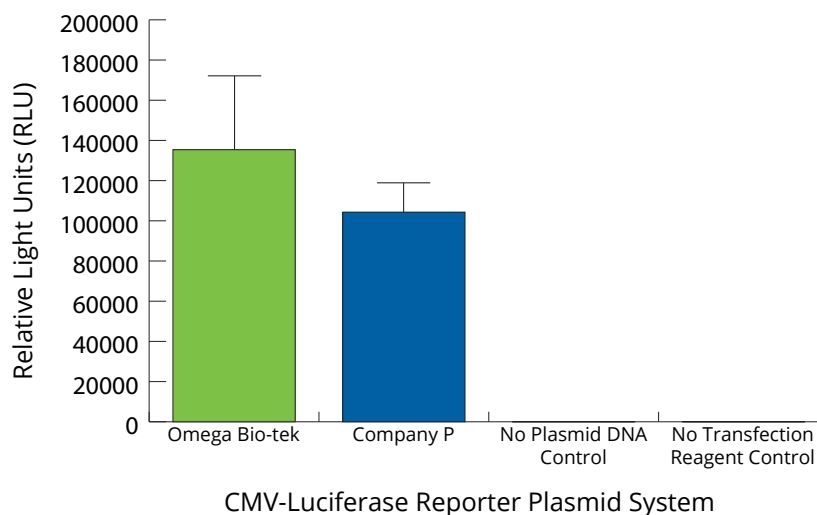
**Mag-Bind® Endo-free Plasmid Mini Kit** is designed to purify high-quality plasmids that are entirely free of endotoxins (<0.1 EU/µg). The Kit utilizes magnetic bead-based technology to purify plasmids from up to 1.5 mL overnight bacterial culture in LB, TB, or other suitable growth medium. Purified plasmid DNA is ready for use in a wide range of downstream applications, including transfection, restriction enzyme digestion, transformation, PCR, and Sequencing.

### ~1.8X HIGHER YIELDS AND LOWER ENDOTOXIN LEVELS

**Table 1.** pGEM plasmid DNA was purified from 1.5 mL DH5α cultures (n=3) using the Mag-Bind® Endo-free Plasmid Mini Kit, as well as Company P's Kit, following manufacturers' recommended protocol. Purified Plasmid DNA was quantified using Thermo Scientific's NanoDrop™ 2000c system. Plasmid preparation was not only endotoxin-free (<0.1 EU/µg) for Omega Bio-tek's Kit, but the yield was also significantly higher compared to Company P's Kit.

Manufacturer	Yield (µg)	A260/A280	A260/A230	Endotoxin Levels (EU/µg)
Omega Bio-tek	7.0	1.84	1.98	0.02 (Endo-free)
Company P	3.9	1.84	1.98	0.14

### HIGHER TRANSFECTION EFFICIENCY VS COMPANY P



**Figure 1.** pGL4.51 plasmid was prepared from 1.5 mL DH5α cultures (n=3) and purified using the Mag-Bind® Endo-free Plasmid Mini Kit, as well as Company P's equivalent Kit. 200 ng of purified plasmid was transfected into 10,000 cells using 2 µL Lipofectamine Transfection Reagent. Plasmids purified using Omega Bio-tek's Kit resulted in higher bioluminescent signal, indicating higher transfection efficiency compared to plasmids purified using Company P's Kit.



innovations in nucleic acid isolation

Omega Bio-tek, Inc.  
400 Pinnacle Way, Suite 450  
Norcross, GA 30071

Phone: 770-931-8400  
Email: [info@omegabiotek.com](mailto:info@omegabiotek.com)  
Web: [www.omegabiotek.com](http://www.omegabiotek.com)

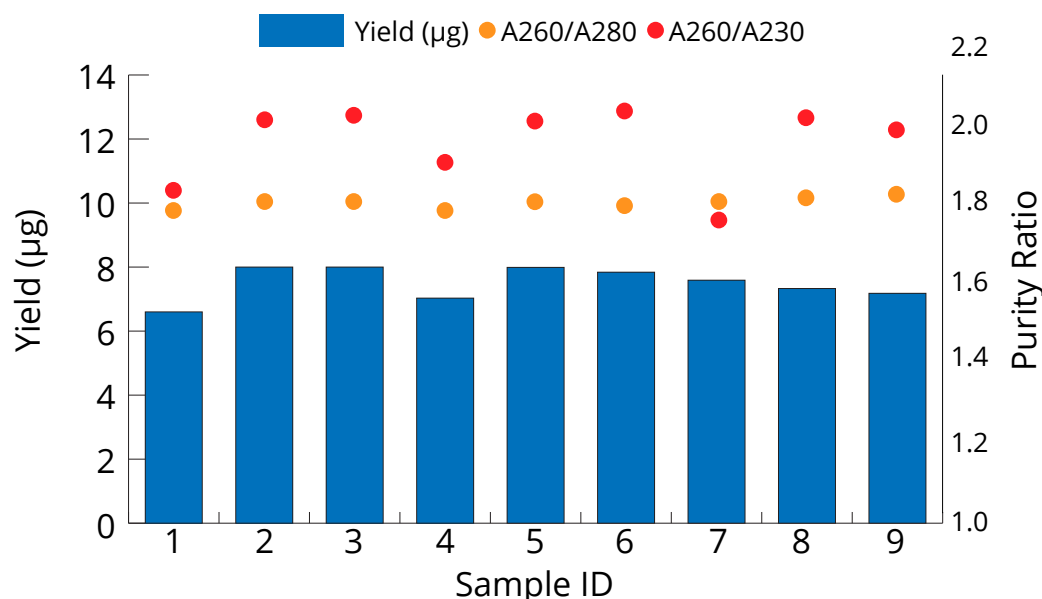


© 2022 Omega Bio-tek, Inc. All rights reserved. E.Z.N.A., E-Z 96 and Mag-Bind are trademarks of Omega Bio-tek, Inc. All other trademarks and trade names are the property of their respective holders. For research use only.

# Mag-Bind® Endo-free Plasmid Mini Kit

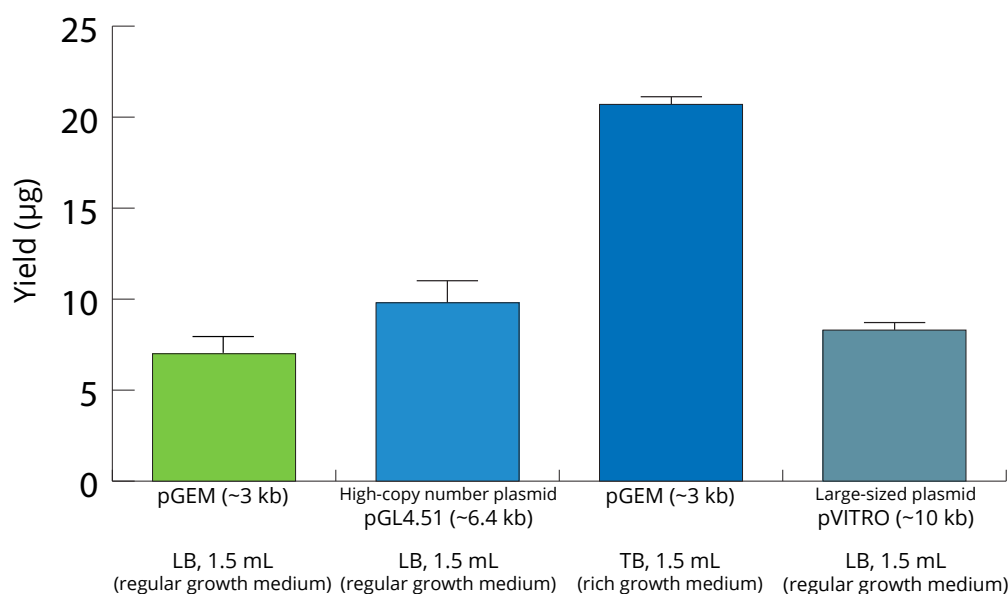
Automation-friendly purification of endotoxin-free plasmid DNA from up to 1.5 mL culture volumes

CONSISTENT YIELDS AND PURITY OF PLASMID PREPS AUTOMATED ON HAMILTON MICROLAB® STAR™



**Figure 2.** pGEM plasmid was purified from 1 mL DH5α cultures using the Mag-Bind® Endo-free Mini Kit, fully automated on the Hamilton Microlab® STAR platform, starting from a bacterial pellet and using lysate clearance beads. Purified plasmid DNA was eluted in 100 µL and quantified using Thermo Scientific's NanoDrop™ 2000c system. Plasmid yields were consistent among the replicates and had excellent purity ratios with A260/A280 ~1.8 and A260/A230 ~2.0.

## VERSATILITY ACROSS VARIOUS PLASMID TYPES AND CULTURE MEDIA



**Figure 3.** Mag-Bind® Endo-free Plasmid Mini Kit is capable of handling diverse sample input conditions ranging from plasmid types, plasmid sizes, culture medium, and input culture volumes. The plasmid yield may vary based on these conditions.

Product Description	Size	Cat No.
Mag-Bind® Endo-free Plasmid Mini Kit	1 x 96	M1261-00
	4 x 96	M1261-01