

Mag-Bind® Endo-free Plasmid Midi Kit

Automation-friendly purification of endotoxin-free plasmid DNA from up to 50 mL culture volumes



Endotoxin-free

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



High-Yielding

Plasmid DNA Yield up to
200 μg



Fully

Automatable

Magnetic beads clear
lysate, avoiding manual
centrifugation step



Versatile

Process up to 50 mL
bacterial cultures with
different plasmid types
and culture medias

Mag-Bind® Endo-free Plasmid Midi Kit is designed to purify high-quality plasmids that are free of endotoxins (< 0.1 EU/μg). The kit utilizes magnetic bead-based technology to purify plasmids from up to 50 mL bacteria culture in LB or up to 10 mL bacteria culture in TB. Purified plasmid DNA is ready for use in a wide range of downstream applications, including transfection, restriction enzyme digestion, transformation, PCR, and Sequencing.

MORE CONVENIENCE WITH COMPARABLE YIELDS VS COMPANY Q

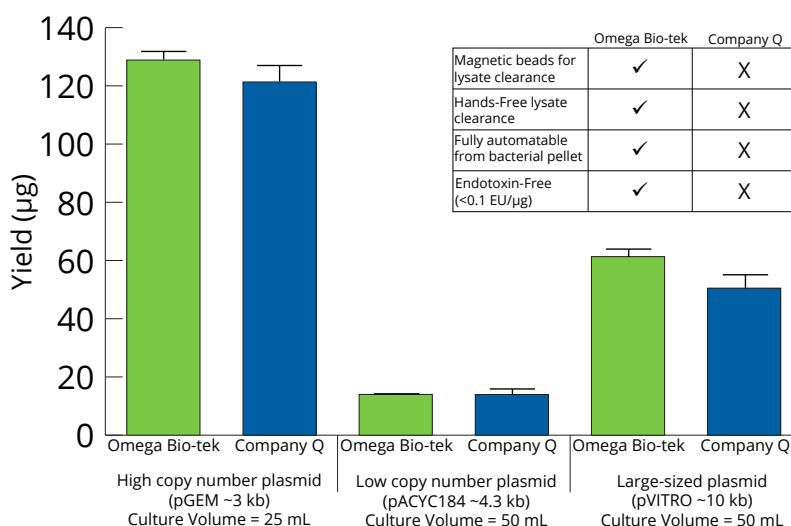


Figure 1. A variety of plasmid types and sizes were purified from DH5α cultures (n=3) using the Mag-Bind® Endo-free Plasmid Midi Kit, in addition to an equivalent kit from Company Q, following respective manufacturers' recommended protocols. Purified Plasmid DNA was quantified using Thermo Scientific's NanoDrop™ 2000c system. Plasmid yields were comparable for all plasmid types, irrespective of the extraction kit used. Inset table shows advantages of Omega Bio-tek's Kit over Company Q's Kit.

VERSATILITY ACROSS VARIOUS PLASMID TYPES AND CULTURE MEDIA

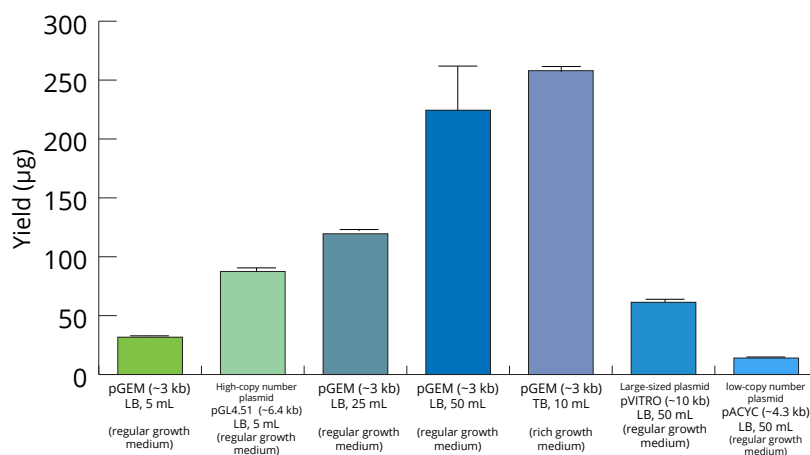


Figure 2. Mag-Bind® Endo-free Plasmid Midi Kit is capable of handling diverse sample input conditions ranging from plasmid types, plasmid sizes, culture medium, and input culture volumes. The plasmid yield may vary based on these conditions.



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
Web: www.omegabiotek.com



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SIGNIFICANTLY HIGHER PLASMID YIELDS COMPARED TO COMPANY T

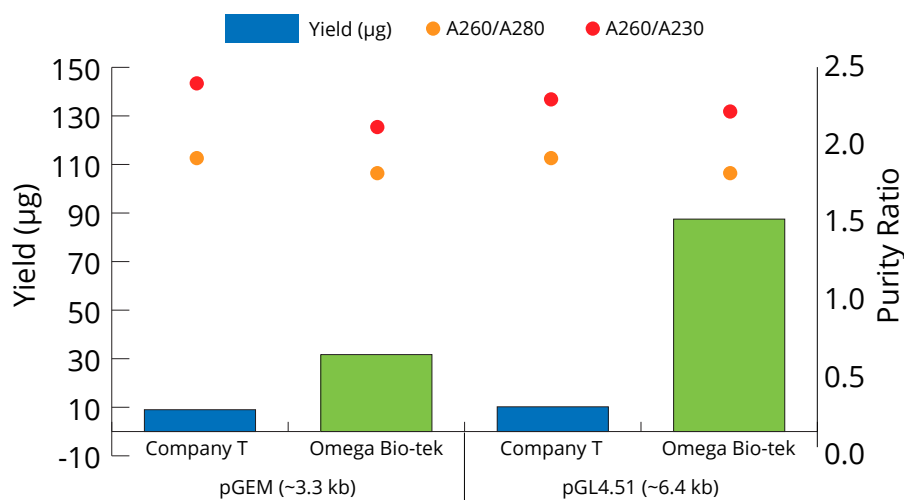


Figure 3. pGEM and pGL4.51 plasmids were purified from 5 mL DH5α cultures (n=3) using the Mag-Bind® Endo-free Plasmid Midi Kit on the MagBinder® Fit²⁴ Nucleic Acid Purification System, as well as Company T's Kit following manufacturers' recommended centrifugation protocols. Purified Plasmid DNA was quantified using Thermo Scientific's NanoDrop™ 2000c system. Plasmid purification 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 T's Kit.

HIGHER TRANSFECTION EFFICIENCY VS COMPANY T

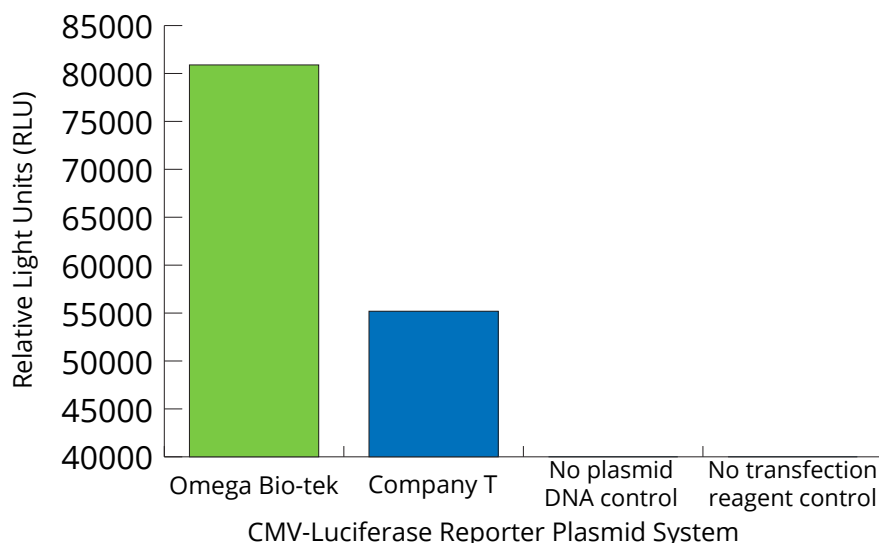


Figure 4. Plasmid pGL4.51 was prepared from 5 mL DH5α cultures (n=3) and purified using the Mag-Bind® Endo-free Plasmid Midi Kit on the MagBinder® Fit²⁴ Nucleic Acid Purification System, as well as Company T's equivalent Kit. Purified Plasmids were transfected into 10,000 cells with 200 ng of purified plasmid 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 T's Kit.

Product Description	Size	Cat No.
Mag-Bind® Endo-free Plasmid Midi Kit	1 x 24	M1272-00
	4 x 24	M1272-01