

Mag-Bind® Ultra-Pure Plasmid DNA Kit

Rapid, high throughput isolation of high-quality, endotoxin-free plasmid DNA using magnetic beads

CAT NO: M1258



Bead-Based
Scalable DNA purification



Quality

Endotoxin-free (< 0.1 EU/μg),
transfection-quality plasmid
DNA suitable for a variety of
downstream applications

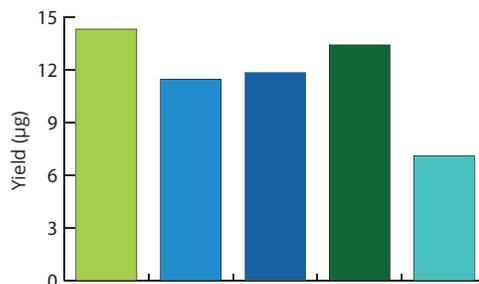


Automatable
Manual or automation-
friendly sample processing

Cost-Effective
30% less than the
competition
on average

Mag-Bind® Ultra-Pure Plasmid DNA Kit combines the power of Mag-Bind® technology with the innovative ETR technology to deliver high quality endotoxin-free plasmid DNA in a high throughput format. Two options are available to clear cellular debris after alkaline lysis: centrifugation or lysate clearing beads. The lysate clearing magnetic beads allow for fully automated processing after pelleting of the cells from culture. Yields vary according to plasmid copy number, *E. coli* strain, and conditions of growth. 1 mL of overnight culture in LB medium typically produces 10-15 μg of high copy number plasmid. The purified plasmid can be used directly for automated fluorescent DNA sequencing, such as BigDye sequencing chemistry, transfection, as well as for other molecular biology techniques, including restriction enzyme digestion.

- Omega Bio-tek's E.Z.N.A.® Plasmid DNA Kit I
- Omega Bio-tek's Mag-Bind® Ultra-Pure Plasmid DNA Kit with lysate clearance via centrifugation
- Omega Bio-tek's Mag-Bind® Ultra-Pure Plasmid DNA Kit with lysate clearance via lysate clearance beads
- Company Q's silica spin columns
- Company P's magnetic bead plasmid DNA kit



Plasmid DNA Yield Comparison

Figure 1. Plasmid DNA was isolated according to manufacturer's recommended protocols from 0.8 mL LB cultures grown for 24 hours. Each protocol was performed in triplicate with the average data shown above. DNA was quantified with Thermo Scientific's NanoDrop® 2000c.

Endotoxins in Plasmid DNA Preps

Table 1. Plasmid DNA was isolated from 0.8 mL LB culture from the corresponding method following the manufacturer's recommended protocols. Endotoxin values were determined using Pierce LAL Chromogenic endotoxin quantification kit.

Prep Method	EU/μg
Mag-Bind® Ultra-Pure Plasmid DNA Kit	0.05
Company P's magnetic bead plasmid DNA kit	11.79
Omega Bio-tek's E.Z.N.A.® Plasmid Mini Kit I	12.94

Product Description	Preps	Cat No.
Mag-Bind® Ultra-Pure Plasmid DNA Kit	1x96	M1258-00
	4x96	M1258-01

For free samples of any of our kits, visit www.omegabiotek.com



innovations in nucleic acid isolation

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