

E.Z.N.A.[®] Plasmid DNA Mini Kit I

Isolation of 30 µg high-quality plasmid DNA from 1-5 mL bacterial cultures

CAT NO: D6942, D6943



RAPID

30 minutes or less processing time



VERSATILE

Spin and vacuum protocols



QUALITY

Sequence quality DNA preparations



SAFE

No phenol-chloroform extractions

E.Z.N.A.[®] Plasmid DNA Mini Kit I is designed to isolate up to 30 µg of high-quality plasmid DNA from 1-5 mL bacterial cultures in 30 minutes or less. This kit uses a modified alkaline lysis method to lyse the cells and separate genomic DNA from plasmid DNA. Plasmid DNA purification is further simplified by using our HiBind[®] Mini Column technology in 3 quick steps: bind, wash, and elute. Purified plasmid DNA is ready for a wide variety of downstream applications, including routine screening, restriction enzyme digestion, DNA sequencing, cloning, transformation, and transfection.

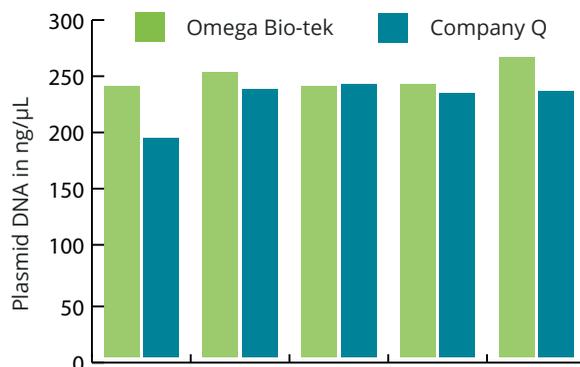


Figure 1

DNA Concentration Comparison

Figure 1. 4 mL DH5α cultures were transformed with pGEM vector according to manufacturer's recommended protocols. Plasmid DNA concentration was determined by optical density measurements with Thermo Scientific's NanoDrop[®] 2000c. Total elution volume was 50 µL.

Plasmid Quality Assessment

Table 1. pGEM plasmid was purified from 1 mL of DH5α cultures following Omega Bio-tek's E.Z.N.A.[®] Plasmid DNA Mini Kit I (Q-spin) protocols with a 50 µL elution volume. Plasmid DNA absorbance ratios were determined using Thermo Scientific's NanoDrop[®] 2000c. Purified plasmid samples had an average CRL of 899.5 bp and an average of 907 bases with a Phred score greater than 20 (≤ 1% probability of error in base calling).

Table 1

Sample ID	A_{260}/A_{280}	Contiguous Read Length (CRL) on Sanger sequencing	QV20+
1	1.87	911	920
2	1.89	899	908
3	1.91	888	884
4	1.88	897	908
5	1.85	899	900
6	1.85	906	911
7	1.86	900	911
8	1.87	904	914
9	1.87	895	907
10	1.87	895	910
11	1.89	891	899
12	1.87	909	917

Product Description	Preps	Cat No.
E.Z.N.A. Plasmid DNA Mini Prep Kit I (Q-spin, capless)	5	D6942-00
	50	D6942-01
	200	D6942-02
	600	D6942-03

Product Description	Preps	Cat No.
E.Z.N.A. Plasmid DNA Mini Prep Kit I (V-spin, attached cap)	5	D6943-00
	50	D6943-01
	200	D6943-02
	600	D6943-03

ALSO AVAILABLE IN ENDOTOXIN-FREE FORMAT. CAT NO: D6948

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