PuroSPIN™ MAXI Spin Columns for DNA and RNA Extraction and Purification

PuroSPIN™ MAXI Spin Columns are designed for fast, simple and efficient extraction of Plasmid DNA from bacterial cultures. They can also be used for genomic DNA and RNA purification from large volume samples (e.g. environmental samples)

Features:

- Nucleic acid binding capacity: 2.3 mg of genomic DNA, 500 µg of plasmid DNA
- Compatible as cost-effective replacement columns for Plasmid DNA purification kits from Qiagen, ThermoFisher, Bio-Rad, Promega and other manufacturers
- Each item includes both the spin column and the sample collection tube
- Extraction of Plasmid DNA from bacteria
- Extraction of genomic DNA and RNA from large volume environmental samples

Features	Specifications
Loading volume	20 mL
Binding capacity	Up to 500 µg of Plasmid DNA Up to 2.3 mg of genomic DNA
Elution volume	3 mL
DNA binding technology	Silica membrane
Applications	Extraction of Plasmid DNA on MAXI scale. Extraction of environmental DNA and RNA from larger volume samples.

Product Description	Quantity	Catalog No.
PuroSPIN™ MAXI Spin Columns for DNA and RNA Extraction and Purification	10	USP008-10N
	20	USP008-20N
	50	USP008-50N

Super Coiled DNA

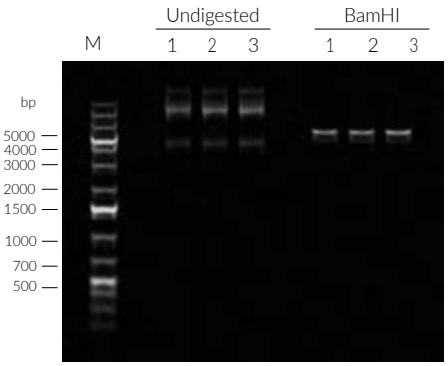


Figure 1. Luna Nanotech's PuroSPIN™ MAXI Spin Columns were used to purify p11 plasmid DNA from 250 mL of DHα *Escherichia coli* cultures using Luna Nanotech's PuroSPIN™ Plasmid MAXIprep kit according to the manufacturer's recommended protocol, in triplicate. FastDigest BamHI was used to linearize the purified plasmid DNA (5704 bp) and all samples were resolved on a 1% w/v agarose gel.

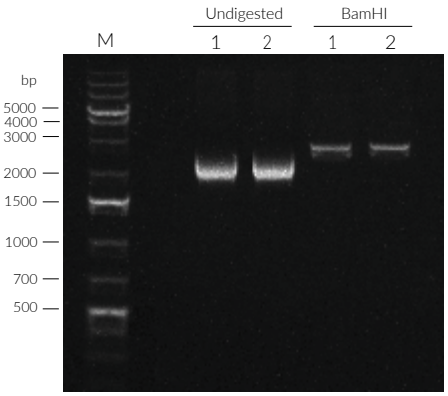


Figure 2. Luna Nanotech's PuroSPIN™ MAXI Spin Columns were used to purify pUC19 plasmid DNA from 250 mL of DHα *Escherichia coli* cultures using Luna Nanotech's PuroSPIN™ Plasmid MAXIprep kit according to the manufacturer's recommended protocol, in duplicate. FastDigest BamHI was used to linearize the purified plasmid DNA (2686 bp) and all samples were resolved on a 1% w/v agarose gel.

Plasmid Quality

	Sample	Yield (µg)	$A_{260/280}$	$A_{260/230}$
p11	Luna Nanotech	210.9	1.88	1.55
	Luna Nanotech	201.6	1.86	1.56
	Luna Nanotech	206.1	1.85	1.52
pUC19	Luna Nanotech	120.9	1.87	2.21
	Luna Nanotech	110.3	1.87	2.24

Figure 3. Luna Nanotech's PuroSPIN™ MAXI Spin Columns were used to purify p11 plasmid DNA from 250 mL of DHα *Escherichia coli* cultures using kits from Luna Nanotech according to the manufacturer's recommended protocol, in triplicate. Plasmid DNA concentration and purity were measured using Thermo Scientific's NanoDrop™ One system.

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Nano for Bio

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