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

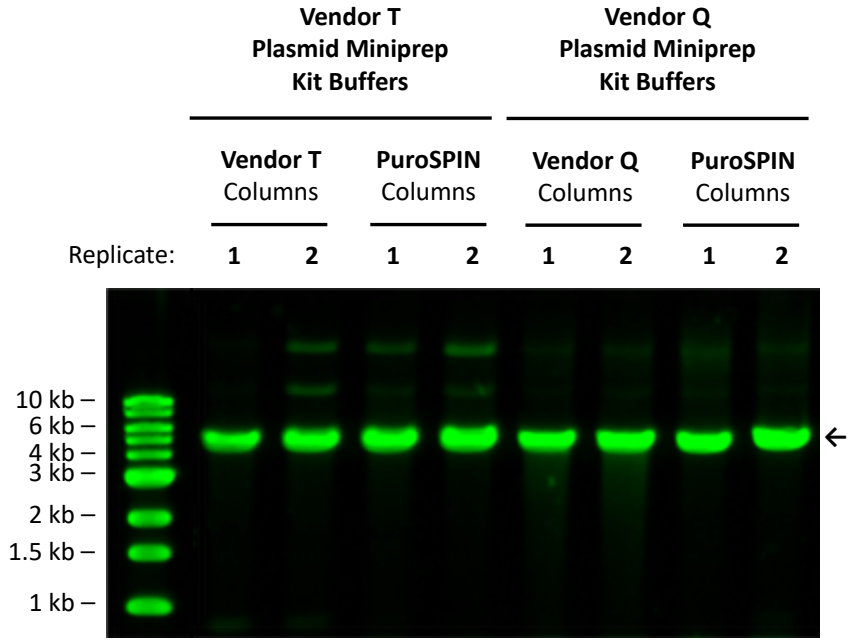
PuroSPIN™ Silica Spin Columns are designed for fast, simple and efficient extraction of DNA and RNA from biological samples such as bacteria, viruses, yeast, cultured cells, fresh and dried blood, urine, buccal swabs, animal tissue. They can also be used for DNA and RNA PCR product cleanup and nucleic acid gel extraction.

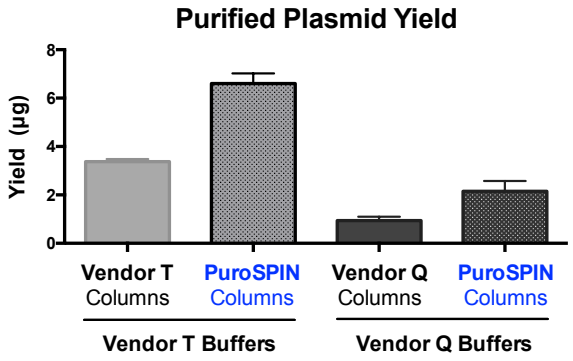
Features:

- PuroSPIN™ MINI Silica Spin Columns bind both DNA and RNA
- 200 µg nucleic acid binding capacity
- Compatible as cost-effective replacement columns for nucleic acid extraction kits from Qiagen, ThermoFisher, Bio-Rad, Promega and other manufacturers
- Includes the spin column and a 2 mL collection tube
- Extraction of plasmid, DNA and RNA from bacteria, viruses, yeast, cultured cells, blood, buccal swabs, animal tissue

Features	Specifications
Loading volume	800 µL
Binding capacity	Up to 200 µg
Elution volume	≥ 30 µL
DNA binding technology	Silica membrane
Applications	Extraction of genomic DNA and RNA from bacteria, viruses, yeast, cultured cells, blood, buccal swabs, animal tissue, plasmid DNA purification, PCR product cleanup, gel extraction

Product Description	Quantity	Catalog No.
PuroSPIN™ MINI Spin Columns for DNA and RNA Extraction and Purification	200	USP004-200N
	500	USP004-500N





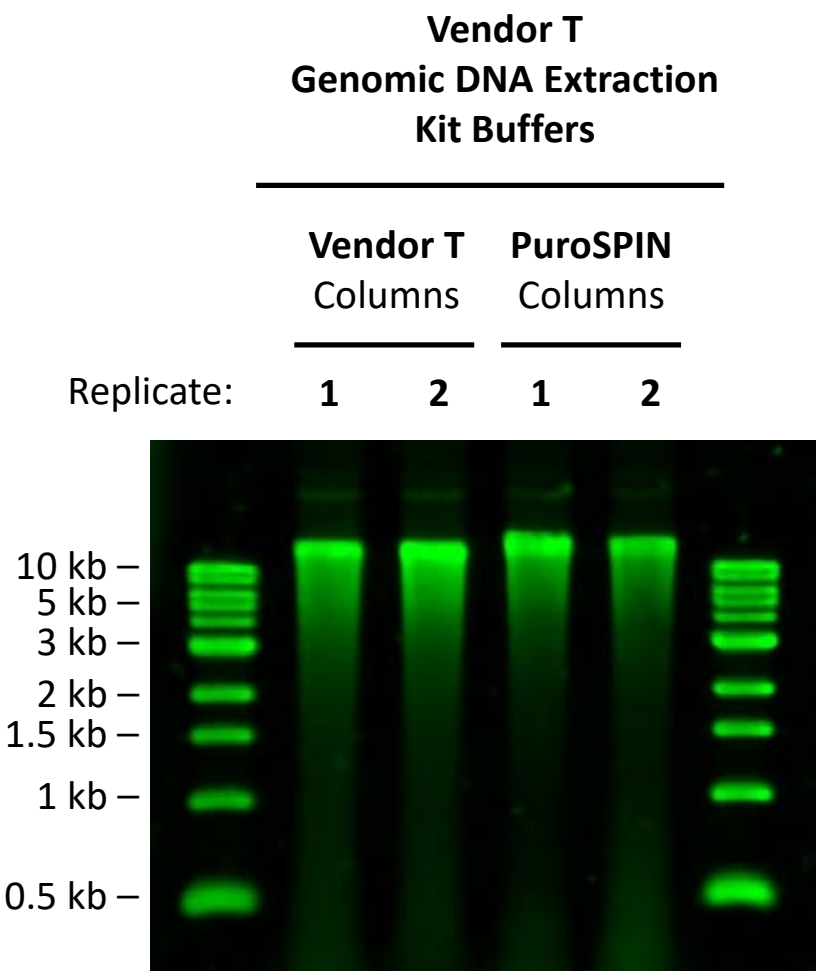
	Vendor T Plasmid Miniprep Kit		Vendor Q Plasmid Miniprep Kit	
	Vendor T Columns	PuroSPIN Columns	Vendor Q Columns	PuroSPIN Columns
Yield (µg)	3.4 (±0.1)	6.4 (±0.4)	0.9 (±0.2)	2.2 (±0.4)
260/280	1.9 (±0.1)	2.0 (±0.7)	1.8 (±0.1)	1.9 (±0.1)
260/230	2.1 (±0.2)	2.3 (±0.1)	1.9 (±0.1)	2.4 (±0.1)

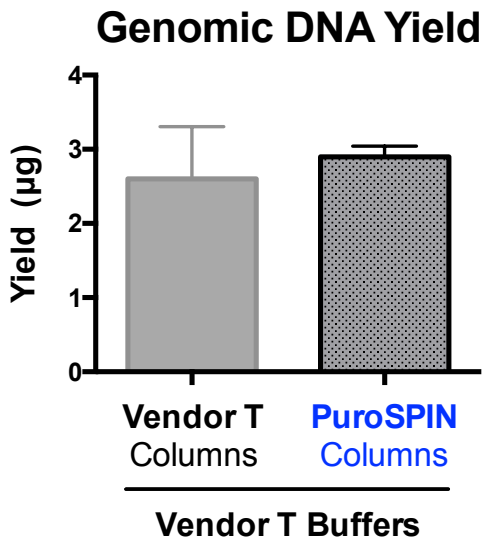
Figure 1. Comparing the extraction of pGLO Plasmid DNA (5371 bp) from E. coli bacteria using Luna Nanotech's PuroSPIN™ MINI Silica Spin Columns for DNA and RNA Extraction and Purification to columns from Vendor T and Vendor Q. For all of the extraction original kit buffers from Vendor T and Vendor Q were used. PuroSPIN™ MINI Silica Spin Columns showed superior yield of Plasmid DNA.

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	Vendor T Genomic DNA Extraction Kit	
	Vendor T Columns	**PuroSPIN** Columns
Yield (µg)	2.6 (±0.7)	2.9 (±0.1)
260/280	1.5 (±0.1)	1.8 (±0.1)
260/230	0.9 (±0.1)	1.5 (±0.2)

Figure 2. Comparing the extraction of genomic DNA from E. coli bacteria using Luna Nanotech's PuroSPIN™ MINI Silica Spin Columns for DNA and RNA Extraction and Purification to columns from Vendor T. For all of the extractions original kit buffers from Vendor T were used. PuroSPIN™ MINI Silica Spin Columns showed a comparable yield of genomic DNA.

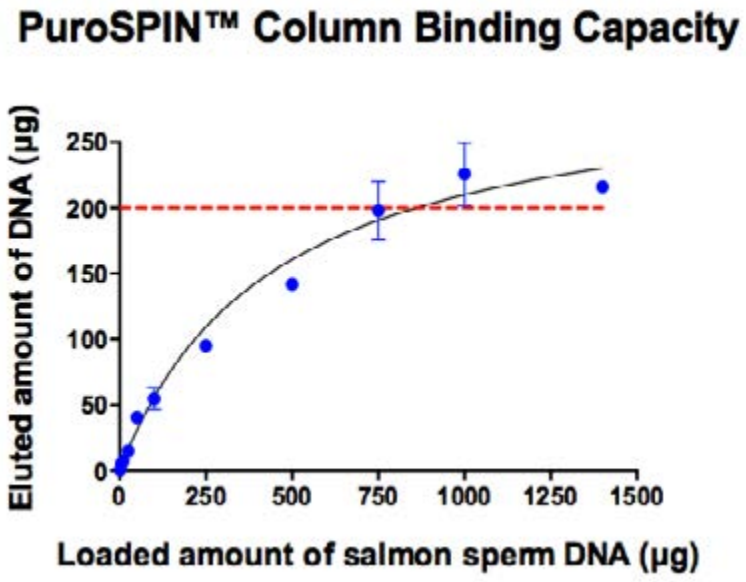


Figure 3. Column binding capacity. *NOTE: Maximum binding capacity is obtained by loading increasing amounts of genomic salmon sperm DNA onto the column. Product yields obtained when using the column for purification of shorter and lower concentration nucleic acids might be noticeably lower.*

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