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for all your  
molecular biology  
needs

# Discover superior nucleic acid purification

Thermo Scientific™ manual and automated nucleic acid purification solutions provide high quality DNA and RNA that is ready to use in routine or very demanding downstream applications.

Applications	Products to use	Cat. #
Isolation of plasmid DNA	GeneJET™ Plasmid Miniprep Kit	K0502/3
	GeneJET Plasmid Midiprep Kit	K0481/2
	GeneJET Plasmid Maxiprep Kit	K0491/2
	MagJET™ Plasmid DNA Kit	K2791/2
Isolation of RNA	GeneJET RNA Purification Kit	K0731/2
	GeneJET Whole Blood RNA Purification Mini Kit	K0761
	GeneJET Plant RNA Purification Mini Kit	K0801/2
	MagJET RNA Kit	K2731/2
	MagJET Whole Blood RNA Kit	K2751/2
	MagJET Plant RNA Kit	K2771/2
Isolation of genomic DNA	GeneJET Genomic DNA Purification Kit	K0721/2
	Genomic DNA Purification Kit	K0512
	GeneJET Whole Blood Genomic DNA Purification Mini Kit	K0781/2
	GeneJET Plant Genomic DNA Purification Mini Kit	K0791/2
	Proteinase K (recombinant), PCR grade	EO0491/2
	MagJET Genomic DNA Kit	K2721/2
	MagJET Whole Blood Genomic DNA Kit	K2741/2
	MagJET Plant Genomic DNA Kit	K2761/2
Isolation of viral DNA and RNA	GeneJET Viral DNA and RNA Purification Kit	K0821
	Viral DNA/RNA Purification Kit, (IVD)*	DK0011
	MagJET Viral DNA and RNA Kit	K2781/2

\* available in EU countries only

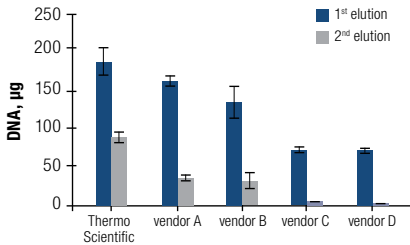
Applications	Products to use	Cat. #	
PCR clean-up	Removal of nucleotides	GeneJET PCR Purification Kit	K0701/2
		FastAP Thermosensitive Alkaline Phosphatase	EF0651/2/4
	Removal of primers	GeneJET PCR Purification Kit	K0701/2
		Exonuclease I	EN0581/2
Extraction of DNA from agarose gel	Standard agarose gel	Silica Bead DNA Gel Extraction Kit	K0513
		GeneJET Gel Extraction Kit	K0691/2
		Silica Bead DNA Gel Extraction Kit	K0513
		TopVision Agarose	R0491/2
	Low melting point agarose gel	Silica Bead DNA Gel Extraction Kit	K0513
		GeneJET Gel Extraction Kit	K0691/2
		Agarase	EO0461
		TopVision™ Low Melting Point Agarose	R0801
Removal of RNA from DNA preparations	RNase A, DNase and protease-free	EN0531	
	RNase T1	EN0541/2	
	RNase A/T1 Mix	EN0551	
	RNase I	EN0601/2	
Removal of DNA from RNA preparations	DNase I, RNase-free	EN0521/3/5	
Removal of proteins from DNA and RNA preparations	Proteinase K (recombinant), PCR grade	EO0491/2	
DNA and RNA precipitation	Glycogen, RNA grade	R0551	
	Glycogen, molecular biology grade	R0561	
	3 M Sodium Acetate Solution, pH 5.2	R1181	

- Find your solution and request your free sample at [thermoscientific.com/yieldpurityvaluefis](http://thermoscientific.com/yieldpurityvaluefis)

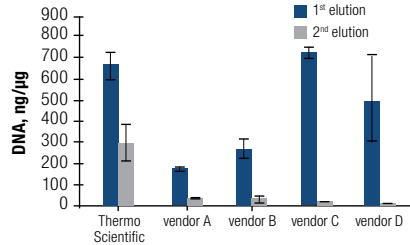
## Thermo Scientific GeneJET Nucleic Acid Purification Kits

- Trusted silica membrane technology in the form of a convenient spin column
- Superior purity and yields compared to other kits on the market
- Extensively tested on a wide variety of sample types and include specialized protocols

### Plasmid DNA purification

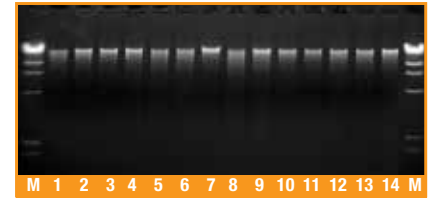


Yields of high-copy plasmid DNA obtained using Thermo Scientific™ GeneJET™ Plasmid Midiprep Kit and other kits for midscale plasmid DNA purification at maximal recommended bacterial cell culture volumes.



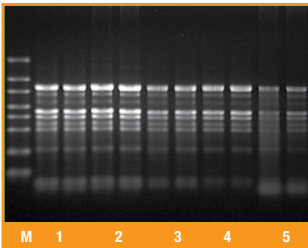
Concentrations of eluted DNA obtained after the purification of high-copy plasmid DNA using different kits for midscale plasmid DNA purification at maximal recommended bacterial cell culture volumes.

### Genomic DNA purification

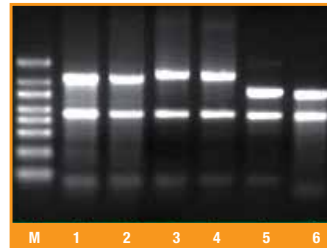


Genomic DNA from different plant material samples purified using the Thermo Scientific™ GeneJET™ Plant Genomic DNA Purification Mini Kit.  
 1- Arabidopsis, 2- Tobacco leaves, 3- Tomato leaves, 4- Spinach leaves, 5- Wheat leaves, 6- Grape leaves, 7- Onion leaves, 8- Rice leaves, 9- Corn seeds, 10- Sunflower stalk, 11- Corn roots, 12- Beef roots, 13- Cucumber fruit, 14- Sugar cane.

### Total RNA purification



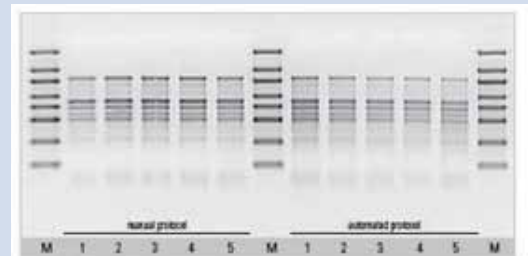
Total RNA purified from 50 mg of tomato leaves using the Thermo Scientific™ GeneJET™ Plant RNA Purification Kit and kits from other vendors.  
 M- Thermo Scientific™ RiboRuler™ High Range RNA Ladder. 1- Thermo Scientific™ product, 2-5 other vendors.



Total RNA purified from various sources using the Thermo Scientific™ GeneJET™ RNA Purification Kit. M- RiboRuler High Range RNA Ladder (#SM1821) 1- mouse liver, 2- mouse spleen, 3- HeLa cells, 4- Cos-7 cells, 5- *Saccharomyces cerevisiae*, 6- *Escherichia coli* DH5α.

## Thermo Scientific MagJET Nucleic Acid Purification Kits

- Compatible with a wide variety of sample types, including cells and tissues, whole blood, plants, serum, plasma, and bacterial culture
- Protocols for automated and manual workflows provided
- Nucleic acid isolation via magnetic beads



Manual and automated workflows were used to purify RNA from *N. tabacum* leaf samples (each 50 mg) with the Thermo Scientific™ MagJET™ Plant RNA Kit. The Thermo Scientific™ KingFisher™ protocol was used for the automated workflow. Isolated RNA was analyzed by agarose gel electrophoresis (1%), M – Thermo Scientific™ RiboRuler™ High Range RNA Ladder (Cat #SM1823).

“Surprisingly, the cheapest kit we tested turned out to have the best performance. It has the highest yield on each of the tested plasmids. The purity of the GeneJET elutions are also appreciable, closely following that of the QIAprep kit. Finally, its buffers, like the innuPrep kit’s, are named instead of coded, which makes using the kit very easy and intuitive ... we conclude that the GeneJET kit, of all those we compared, delivers the biggest bang for its buck.”

-iGEM team member

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