

DNA Purification Quick Reference Guide

Plasmid

Sigma System	Page Number	Catalog Number	Product Description	Starting Amount	Time Required	Elution Volume	Expected Yield	Downstream Applications
GenElute™ Plasmid Kits	6	PLN10, PLN70, PLN350	GenElute Plasmid Miniprep Kits	1.5 ml	<30 minutes	100 µl	Up to 20 µg	Restriction Digest, Cloning, Sequencing, PCR
	8	NA0150S, NA0150, NA0160	GenElute HP Plasmid Miniprep Kit	1-5 ml	< 30 minutes	100 µl	Up to 25 µg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection
	5	PFM10, PFM50, PFM250	GenElute Five-Minute Plasmid Miniprep Kit	400 µl	5 minutes	40 µl	Up to 5 µg	Restriction Digest, Sequencing, and PCR
	8	NA0200S, NA0200	GenElute HP Plasmid Midiprep Kit	50 ml	30 minutes	1 ml	Up to 350 µg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection
	8	NA0300S, NA0300, NA0310	GenElute HP Plasmid Maxiprep Kit	150 ml	30 minutes	3-5 ml	Up to 1.2 mg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection
	10	NA0500	GenElute HP Plasmid Megaprep Kit	150 ml-1 liter	90 minutes	20 ml	Up to 5 mg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection
GenElute Endotoxin-free Plasmid Kits	11	PLED35	GenElute Endotoxin-free Plasmid Midiprep Kit	5-40 ml	<95 minutes	1 ml	Up to 250 µg	Transfection, Restriction Digest, Sequencing, and PCR
	12	NA0400S, NA0400, NA0410	GenElute HP Endotoxin-free Plasmid Maxiprep Kit	150 ml	40 minutes	3-5 ml	Up to 1.2 mg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection of endotoxin-sensitive cell lines
	14	NA0600	GenElute HP Endotoxin-free Plasmid Megaprep Kit	200 ml-1 liter	90 minutes	20 ml	Up to 5 mg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection of endotoxin-sensitive cell lines
	16	NA0800	GenElute HP Select Endotoxin-free Gigaprep Kit	Up to 2.5 liters	2 hours	50 ml	Up to 15 mg	Restriction Digest, Cloning, Sequencing, PCR, and Transfection of endotoxin-sensitive cell lines
PhasePrep™ BAC DNA Kit	17	NA0100	Isolation of Bacterial Artificial Chromosomes	5-500 ml	3 hours	20 µg-1 ml	Up to 100 µg	Sequencing, PCR, Restriction Enzyme Digestion, and Cloning

Genomic

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Extract-N-Amp™ and REDExtract-N-Amp™ Tissue PCR Kit	19	XNATS, XNAT, XNATR, XNAT2, XNAT2R	Rapid Extraction & PCR amplification of genomic DNA from animal tissues, hair, and saliva	Varies depending on starting material	<15 minutes from extraction to amplification	N/A	N/A	Genotyping, Target Detection, Automated Sequencing, and Cloning
SYBR® Green Extract-N-Amp Tissue PCR Kit	20	XNATSG, XNATG, XNATRG	Rapid Extraction & Amplification and Detection of genomic DNA from animal tissues, hair, and saliva	Varies depending on starting material	<15 minutes from extraction to amplification	N/A	N/A	Genotyping, Target Detection, Automated Sequencing, and Cloning
Extract-N-Amp and REDExtract-N-Amp Blood PCR Kit	22	XNAB2, XNAB2R, XNAB2RE, XNABS, XNAB, XNABE, XNABR, XNABRE	Rapid extraction & PCR amplification of genomic DNA from whole blood	10 µl of blood or blood card	8 minutes from extraction to amplification	N/A	N/A	Target Detection, Automated Sequencing, and Cloning
Extract-N-Amp and REDExtract-N-Amp Plant PCR Kit	24	XNAP, XNAP2, XNAR, XNAPR, XNAPS, XNAPE, XNAP2E, XNAP2RE	Rapid extraction & PCR amplification of genomic DNA from plant leaves	0.5 to 0.7 cm plant leaf disk	<15 minutes from extraction to amplification	N/A	N/A	Target Detection, Automated Sequencing, and Cloning
Extract-N-Amp and REDExtract-N-Amp Seed PCR Kit	26	XNAS2, XNASS, XNAS	Rapid extraction and PCR amplification of genomic DNA from seeds	1 seed	<15 minutes from extraction to amplification	N/A	N/A	Target Detection, Automated Sequencing, and Cloning
GenElute Mammalian Genomic DNA Miniprep Kit	28	G1N10, G1N70, G1N350	Purification of genomic DNA from a variety of mammalian sources	Varies depending on source material	20 minutes after 1 lysis	200-400 µl	Varies depending on starting material	PCR, Restriction Endonuclease Digestions, Cloning, and Southern blots
GenElute Plant Genomic DNA Miniprep Kit	30	G2N10, G2N70, G2N350	Purification of genomic DNA from a variety of plant species	Up to 100 mg of plant tissue	<40 minute	100-200 µl	Varies depending on plant species	PCR, Restriction Endonuclease Digestions, Cloning, and Southern blots
GenElute Blood Genomic DNA Kit	32	NA2000, NA2010, NA2020	Purification of genomic DNA from fresh or aged whole blood	Up to 200 µl of blood	<40 minutes	400 µl	Up to 10 µg	PCR, Restriction Endonuclease Digestions, Cloning, and Southern blots
GenElute Bacterial Genomic DNA Kit	34	NA2100, NA2110, NA2120	Purification of genomic DNA from a variety of cultured bacteria	Up to 1.5 ml of culture	<75 minutes Gram - <120 minutes Gram +	400 µl	Up to 20 µg	PCR, Restriction Endonuclease Digestions, Cloning, and Southern blots

