

Xmatrix Nucleic Acid Purification System (XNAPS)

The latest generation of DNA/RNA purification kits

Advantages of XNAPS kits

Fast process
Toxic-free
Ultra-pure
High yield
Low cost

Xmatrix Nucleic Acid Purification System (XNAPS) is a novel platform that provides a simple, safe, and efficient technology for nucleic acid extraction and purification from any organism and source.

XNAPS platform was specifically developed to overcome the disadvantages of current purification technologies that use toxic chaotropic salts, reagents that are known to inhibit enzymatic reactions and present storage, shipping, and handling challenges. The purified nucleic acid free of chaotropic-residues exhibits improved activity in subsequent reactions. A series of XNAPS kits have been developed for applications requiring fast and easy preparation of highly pure DNA and RNA.

Flow chart of XNAPS processing

XNAPS employs a simple “3-step system” to purify nucleic acid from various organisms. The starting materials may be in the form of liquid, solid, or a mixture of both.

Step 1. Lysis and denaturation.

Step 2. Binding and washing.

Step1 Organism lysis



Step 2-1 Specific binding of nucleic acid



Step 2-2 Washing away of impurities



Step 3 Elution of nucleic acid



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XNAPS and related Products

Application	Sample source	Sample quantity	Kit name and description	Cat. No.*	Price
Plasmid purification	Culture medium	Flexible (1-150 ml)	XNAPS plasmid endofree flexspin kit	NP1003A/B	\$150/270
		Flexible (1-150 ml)	XNAPS plasmid flexspin kit	NP1004A/B	\$60/120
		0.5 ml	XNAPS 96 well plasmid flexspin kit	NP1005A/B	\$120
Genomic DNA purification	Blood Buffy coat	10µl-10ml	XNAPS blood gDNA flexspin kit	NP1014A/B	\$80/150
	Animal cell , tissue, swab	10 ³ -10 ⁷ cells or 1-100mg tissue	XNAPS cell/tissue gDNA flexspin kit	NP1017A/B	\$80/150
	Stool	Flexible	XNAPS stool DNA flexspin kit	NP1023A/B	\$90/175
	Body fluid, plasma, serum	Up to 10ml	XNAPS body fluid DNA Flexspin kit	NP1026A/B	\$80/150
	Plant tissue	100mg	XNAPS plant DNA Flexspin kit	NP1025A/B	\$90/175
	soil	Flexible	XNAPS soil DNA flexspin kit	NP1035A/B	\$90/175
	Micro amount sample	Micro volume	XNAPS MicroDNA flexbond kit(100)	NP1038	\$175
Total RNA	Animal cell, tissue	2x10 ⁶ cells, 30mg tissue	XNAPS RNA Flexspin Kit	NP2001A/B	\$150/\$250
Others	Agarose gel, solution	Flexible	FastBack DNA minispin kit	NP3001A/B	\$60/\$120

*: Cat. No. with A contains 1 x 96 well (NP1005A) or 50 preps(except 1005A); with B contains 10 x 96 well (NP1005B) or 100 preps(except NP1005B), respectively.

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Selection guide of XNAPS genomic DNA purification kits

Sample Source	XNAPS blood gDNA flexspin kit	XNAPS cell/tissue gDNA flexspin kit	XNAPS body fluid DNA flexspin kit	XNAPS stool DNA flexspin kit	XNAPS plant DNA flexspin kit	XNAPS soil DNA flexspin kit	XNAPS micro DNA flexbond kit
Cat. No.	NP1014A/B	NP1017A/B	NP1026A/B	NP1023A/B	NP1025A/B	NP1035A/B	NP1038
Whole blood	X	X					X
Buffy coat	X	X					X
Lymphocytes	X	X					X
Cultured cells	X	X					X
Animal tissues		X					X
Micro-dissected tissues		X					X
Paraffin-embedded tissue		X					X
Dried blood spot	X	X					X
Swabs		X					
Plasma			X				X
Serum			X				X
Saliva			X				X
Sputum			X				X
Urine			X				X
Cerebrospinal fluid			X				X
Stool				X			
Soil				X		X	
Plant							
Bacteria		X	X				X
Parasites		X	X				X
Viral DNA/RNA			X				X

Selection Guide of XNAPS plasmid purification kits

Format	Applications	Volume scale	XNAPS plasmid flexspin kit	XNAPS plasmid endofree flexspin kit	XNAPS plasmid 96 flexspin kit
			NP1004A/B	NP1003A/B	NP1002A/B
Regular plasmid purification _manual	Enzyme digestion, sequencing, transformation	Mini	X	X	
		Midi	X	X	
		Maxi	X	X	
Endotoxin-free plasmid purification _manual	Transfection	Mini		X	
		Midi		X	
		Maxi		X	
Regular plasmid purification _high-through(96_well)	Enzyme digestion, sequencing, transformation				X

Selection Guide of XNAPS RNA purification kits

Total RNA purification_manual	XNAPS RNA flexspin kit
	NP2001A/B
Animal whole blood	X
Animal tissues	X
Cultured cells	X
Plant tissues	X
Parasites	X
Bacteria	X
Yeast	X
Fungi	X

Selection guide of DNA fragment purification

Sample	FastBack DNA minispin kit
	NP3001A/B
Agarose gel	X
PCR solution	X
Enzymatic digestion	X
Labeling solution	X

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Ordering Information

Customers in USA and Canada

To place an order, please use any of the following ways:

Phone: 1-866-712-4412(Toll free)
Mon.-Fri. 9:00am-5:00pm (EST)
Fax: 1-651-204-9348
Email: services@renogenbio.com
Mail: #310, 2386 East Mall
Vancouver, BC, V6T 1Z3
Canada

Customers outside USA and Canada

Please contact our authorized international distributors and local representatives: www.renogenbio.com.
In areas without our distributors and representatives, the following options are available:

Phone: 1-651-204-0326
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FAX: 1-651-204-9348
Email: services@renogenbio.com
Mail: #310, 2386 East Mall
Vancouver, BC, V6T 1Z3
Canada

Online Ordering

All products may be ordered online from any location, 24 hours a day, 7 days a week. Online ordering is fast and convenient. Please log on www.renogenbio.com for detailed information.

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