

Automated DNA Isolation from **whole blood**

GENE PREP STAR NA-480 is a fully automated genomic DNA Isolation System from maximum 7ml whole blood. High performance centrifuge and robotics technology accelerate your genome research.

Key features

•Fully automated DNA isolation

Built-in centrifuge achieves fully automated process from collection of white blood cell to precipitation and hydration of extracted DNA.

NA-480 can set maximum 36 samples at a time.

•Highly reliable DNA isolation

High accuracy robotics, specially designed tube 5/6/8-hole tube and unique chemistry enable consistent isolation of good quality DNA with inexpensive operating cost.

•Wide Range of Sample Volume

From 0.5ml up to 7ml, NA-480 isolates genomic DNA from whole blood sample (2ml blood DNA protocol and large volume blood DNA protocol). Animal tissue, cultured cell, plant DNA and plasmid DNA isolation protocols are also available.

•Operation recording system

Sample tracking and reporting software facilitate to record operation history related with the sample information.



GENE PREP STAR NA-480



- Easy to operate with color touch screen panel.
- Safety interlock shuts down if the front door is opened during the run.
- HEPA filter reduces infection possibility.



Use syringe for dispensing reagent with high accuracy



Agitator and heater accelerate the extraction reaction

Specification

Model	GENE PREP STAR NA-480
Maximum samples/run ^{*1}	48 / 36 / 30
Processing tube	Specially designed tube unit 8, 6 or 5 hole tube
Protocols ^{*2}	Whole blood DNA, QIAGEN FlexiGene ^{*3} Plasmid, Animal tissue DNA, Plant tissue DNA
System components	Centrifuge 6 bucket swing rotor maximum speed of 3,900rpm (2500G) Dispenser Nine (9) channels, syringe model Tube Transfer Two (X and Z) axis robot and 1-axis (X) Agitator unit Heater HEPA filter Stainless table top Liquid transfer Decantation Built-in barcode reader Sample Tracking software
Electric control	Internal microprocessor
Screen	LCD touch screen panel
Power supply ^{*4}	Voltage, AC100, 115V, 120V, 200V, 220V, 230V, 240V; Frequency, 50/60 Hz; Capacity, 1.0 KVA
Dimension	W 720 × D 760 × H 1535(mm) / W 28.3 × D 29.9 × H 60.4 (inch)
Weight	275kg/ 606lbs

Protocols

Protocol	Method	Sample volume	Yield	Purity OD260/280
Whole Blood DNA	Kurabo Fresh (phenol)	~2ml (fresh blood)	20-40ug	1.8 ~ 1.9
	Kurabo Frozen	2~7ml (frozen blood)	140-400ug	
Plasmid	Modified alkaline	0.5 - 3.0ml	8ug/1.5ml	1.7 ~ 1.9
Animal tissue DNA	Modified phenol	Max 30mg (Mouse tail)	20ug/30mg (Mouse tail)	1.7 ~ 1.9

*1: 48 for 8-hole tube units, 36 for 6-hole tube units and 30 for 5-hole tube units.

Depends on the protocols and the sample volume.

*2: one protocol is included in instrument price

*3: FlexiGene is a registered trademark of QIAGEN.

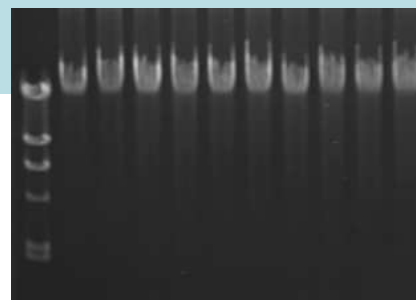
*4: only service engineer can change the voltage setting

Genomic DNA from 5ml whole blood

Sample: EDTA treated 5ml of human blood

Isolation conditions: FG Fresh protocol (default parameter)

DNA size marker: Lambda/hindIII Ladder



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