

RAPIDLY AUTOMATES 384 SAMPLES PER RUN!

Completely Automated DNA Extraction

AutoGenprep 965

High Throughput From 96 Deep Well Plates

Whole Blood and More . . .



Complete Automation ♦ Lowest Cost Per Prep ♦ High Quality and High Yield
High Throughput ♦ 96 Well Format

AN  COMPANY
AutoGen

COMPLETE AUTOMATION

The **AutoGenprep 965** is a completely automated high throughput robotic system for DNA extraction. This totally new system purifies DNA from up to four 96 deep well plates in just 4–6 hours. Prepare your samples in the deep well plates and load the sample plates directly onto the instrument. Start the system and walk away. The extracted DNA can be used directly in your downstream applications.

Robust Modular Design



Multi-Channel Liquid Handling

A 12-in-1 Multi-Channel Pipettor module distributes the necessary reagents into the 96 deep well plates at a very high speed. Specially designed 1000 μ l tips are used to avoid any cross contamination.



Agitation

The agitation module assists in lysing the cells, mixing the reagents, precipitating the DNA and eluting the purified DNA. Up to four plates can be agitated at one time.



Centrifuge

The on board centrifuge is used to concentrate cultures, pellet protein and cellular debris, pellet the purified DNA, and is equipped with a HEPA-Filter for biohazard reduction. The centrifuge module has the capacity to process two plates at a time.

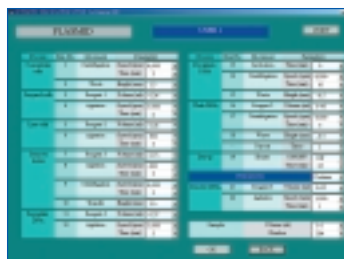
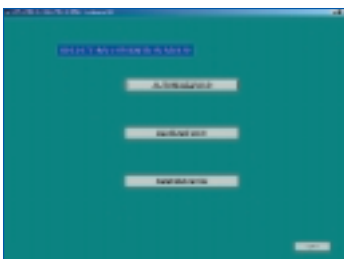


Reagent Reservoirs

The 9 independent reservoirs hold all the necessary reagents to run each protocol. The reagent reservoirs hold enough reagents to complete 2 full runs.

Exclusive Software

The exclusive software of the AutoGenprep 965 is a user-friendly, easy-to-operate system based on Windows 98. The operation status can easily be monitored on the display of the PC. This very flexible system allows various operating parameters to be modified and up to eight different user files to be saved.



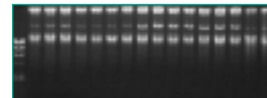
HIGH QUALITY & HIGH YIELD

The **AutoGenprep 965** consistently produces a **High Yield** of DNA that is superior to conventional manual methods. The DNA yield is very dependable, and the coefficient of variation (CV) is less than 9.0%.*

*(In case of plasmid prep)

Purified BAC DNA

DH10B/pBelo BAC clone was cultured in TB media for 20 hours. BAC DNA was extracted from 1.0ml culture on the AutoGenprep 965. 6µl BAC solution was loaded onto a 0.7% agarose gel and analyzed by electrophoresis at 100 V.

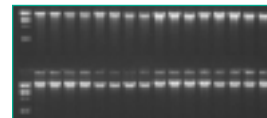


Purified Whole Blood DNA

Genomic DNA was extracted from 200µl of EDTA-treated human whole blood using 3 different methods. The extracted DNA was loaded onto a 0.7% agarose gel and analyzed by electrophoresis at 50V and compared on the gel.

Upper Lanes: Competitor's manual kit (*left hand side*);
Manual extraction (*right hand side*).

Lower Lanes: AutoGenprep 965 whole blood protocol.



Origin	Cell Density (OD660)	Sample Volumes	Yield	OD
Whole Blood		200 µl	3–5 µg	1.70–1.80
BAC	6.0–7.5	1.0 ml	0.5–1.0 µg*	1.80–1.85

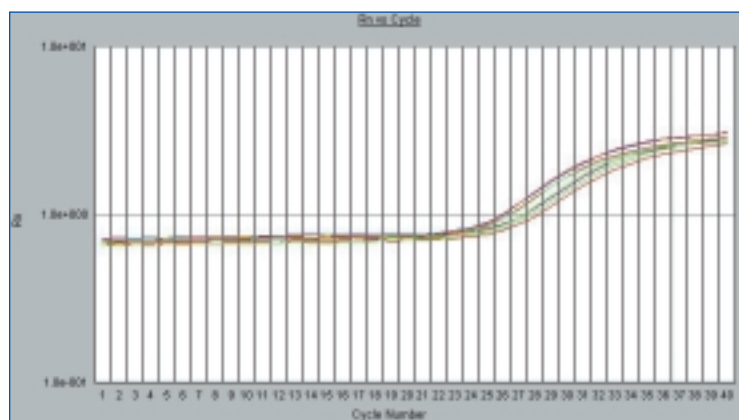
*Calculated from the fluorescent signal intensity of the vector fragment on Pulse Field Gel Electrophoresis.

The **AutoGenprep 965** automatically produces **High Quality** DNA that is comparable or better than conventional manual methods. The DNA extracted by the AutoGenprep can be used directly in sequencing reactions, PCR, real-time PCR and more.

Real-Time PCR: Whole Blood

Genomic DNA was extracted from 3 different anti-coagulated human whole blood samples (EDTA, Sodium Citrate, CPDA-1) on the AutoGenprep 965. 20ng of the extracted DNA was subject to real-time PCR and all the samples were successfully amplified.

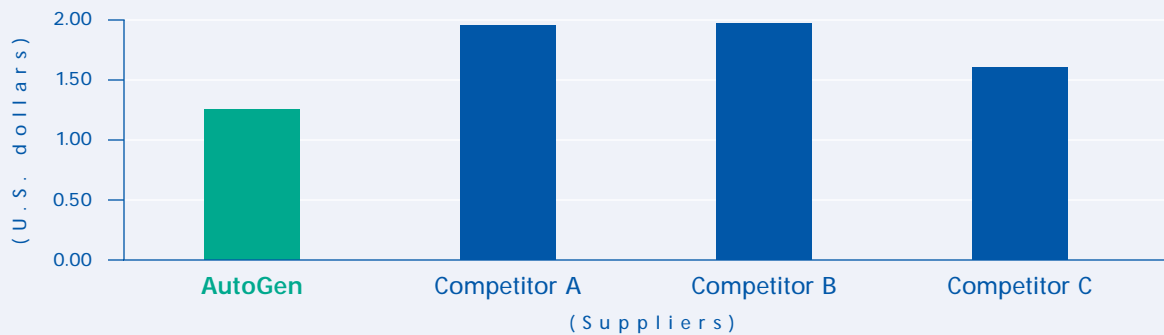
Instrument: ABI Prism 7000
Kit: TacMan Universal PCR Master Mix
Primer & Probe: Eukaryotic 18S4RNA
Cycle: 60°C, 2 min – 95°C, 10 min
[95°C, 15 sec – 60°C, 1 min] x 40



LOWEST COST PER PREP

The chemistry of all the **AutoGenprep** models is a proprietary modified organic extraction method, which is very similar to the Gold Standard chemistry (conventional phenol/chloroform organic extraction). The AutoGenprep models do not require expensive disposable columns or filters, thus, providing you with the **Lowest Cost Per Prep** available today.

Consumable Savings (Cost Per Prep—Whole Blood in 96 Well Format)



Special Features

Liquid Handling Capability

The AutoGenprep 965 will transfer the extracted DNA solution into 96 thin wall tube plates for direct downstream application such as PCR and Sequencing.

Multiple Protocols

The versatility of our extraction chemistry allows AutoGen to continuously develop new protocols. Available now are protocols for Whole Blood, Plasmid, BAC, Mouse Tail, Tissue, ES Cells and Plant.

Installation Specifications

External Dimension:

182cm (W) x 75cm (D) x 165cm (H)
71.5 in (W) x 29.5in (D) x 65.0 in (H)

Weight:

1270 lbs (580 kgs)

Power:

AC 200–240V, 50/60 Hz 1 phase 20amps (965)
AC 100–240V, 50/60 Hz (PC)

Compressed Air:

60–80 psi



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