

The miniPCR DNA Discovery System™

The complete biotechnology toolkit for your lab or classroom

miniPCR™ PCR machine

blueGel™ electrophoresis system

micropipette (2-20 μ L)

non-carcinogen DNA Staining dye

agarose





miniPCR™, The PCR machine for everyone, everywhere

Opening up the world of DNA

- ⦿ Superior performance
- ⦿ Interactive software
- ⦿ Transparent. Not a black box!
- ⦿ Portable and perfect for every bench
- ⦿ Designed, engineered, built in USA



POWERFUL

Big results in a small package

DNA AMPLIFICATION

miniPCR™ copies targeted pieces of DNA in a process known as polymerase chain reaction (PCR), with the same quality as professional benchtop thermal cyclers.

FULLY COMPATIBLE

Works interchangeably with standard PCR assays, reagents, and consumables.



PORTABLE

miniPCR™ travels wherever your science goes

GO PLACES

PCR is the gold standard for DNA-based detection of pathogens, contaminants, and species identification. miniPCR™ can operate in the field for up to 6 hr. on portable rechargeable batteries (optional).

TRAVEL LIGHT

Sturdy, miniaturized 2 x 5 x 4 in. design weighs less than 1lb.

SIMPLE

User-friendly software interface

PROGRAM IN SECONDS FROM YOUR PHONE

With the miniPCR™ App, easily create and share experiments in a few taps. The free miniPCR™ App is available for Windows, Mac, Android, and Chrome operating systems.

MONITOR AND ANALYZE

Follow the process in real time, export run data for analysis.

miniPCR™ Apps

Beautiful, powerful, and simple



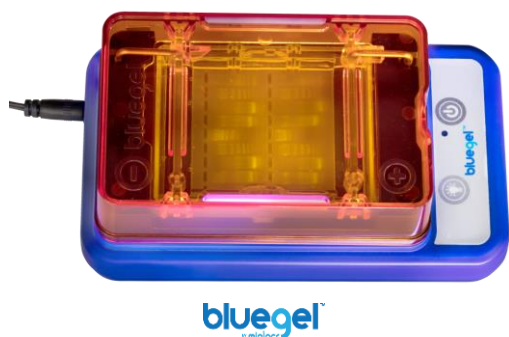
Program in seconds
Follow experiment in real time
Export, share, and analyze data
Windows, Mac, Android and Chromebook

MONITOR AND ANALYZE

Plot reaction parameters in real time
Interactive animations and graphs
Full control of run and device status (Run, Pause, Stop)
Export data to .csv file for analysis and quality control
Quantify ramp rates, cycles, and temperature uniformity

SPECIFICATION

Sample Format	8 x 0.2ml PCR tubes (strip compatible)
Control System	Embedded thermistors, PID algorithm
Temperature Control	Resistive Heating; assisted cooling
Temperature Range	Ambient – 99°C
Heating Rate	2.4°C / sec
Cooling Rate	1.7°C / sec
Heated Lid	Independent lid heater up to 120°C, PID control
Adjustable Lid	Compatible with flat or domed caps
Program Sharing & Backup	Unlimited libraries, .plf file
Internal Memory	Runs last stored program at power ON
Power Supply	AC 100-240V, 50-60hz, 65W
Dimensions	2" x 5" x 4" (5.1cm x 12.7cm x 10.2cm) approx.
Weight	1 lb. (450g) approx.



light up the world of DNA

Integrated electrophoresis and visualization system

- ♦ Fast results using up to 10x less reagents
- ♦ Visualize DNA as it separates
- ♦ No Ethidium Bromide, UV, or high voltage
- ♦ Compact, high-quality, engineered & built in USA

Safe

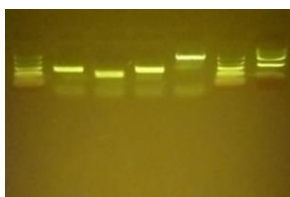
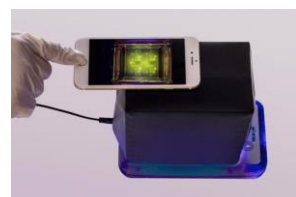
No UV light or ethidium bromide

SAFE FOR YOU

Utilizes blue LED light and safe green DNA dyes.
No need for UV protection or ethidium bromide.
Load and run gels safely without possibility of electric contact.
Runs fast on low voltage (48V).

SAFE FOR DNA

No UV damage to DNA for downstream applications.



Portable

Compact and integrated

ALL-IN-ONE

Integrated electrophoresis, power supply, and transilluminator.
Simply plug into a wall outlet.

ECONOMICAL

Uses up to 10x less reagents. Low energy consumption.



Rapid results

Fast and direct DNA visualization

INSTANT VISUALIZATION

Turn on safe blue light and watch DNA separation at any time.
Take a picture with your phone, tablet, or camera.

FAST RESULTS

Observe DNA separation in as little as five minutes!

REAL TRANSILLUMINATION

Uniform lighting. No edge artifacts.

Fold-a-View™ PHOTO DOCUMENTATION HOOD

New! – A portable, foldable darkroom

Features

Gel electrophoresis unit with built-in transilluminator

Casting system with integrated comb holder

Seamless polycarbonate ABS injection molded parts

Platinum and stainless steel electrodes

Two-button operation; one for Run, one for Light

High intensity blue LED transilluminator panel

miniPCR Learning Labs

Hands-on DNA investigations for teachers and students

- Teach PCR, electrophoresis, restriction digest, etc.
- Engaging real world applications
- Detailed lab guides
- Research-grade reagents

SPECIFICATION

Gel size: 60 x 60 mm

Gel volume: 15 ml

Buffer volume: 25 ml, optimized for TBE

One or two rows of combs: 9 or 13 wells each

Power supply: AC 100-240V, 50-60hz, 48V

Dimensions: 9" x 4" x 3" height (23 x 10 x 7 cm.)

Weight: 0.75 lbs., 350 gr





Novel Juice keeps your lab safe

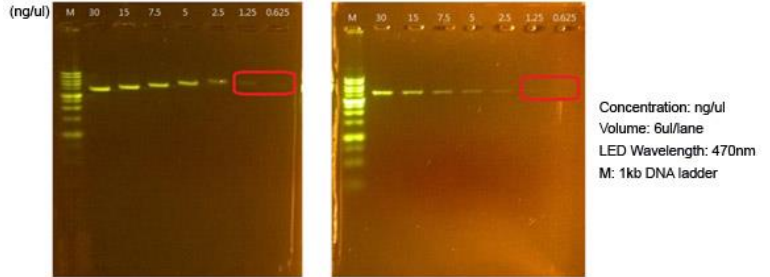
- **Safe**
Absence of mutagenity.
- **Low Environmental Impact**
Compliance with the Clean Water Act standards. No water pollution concern.
- **Sensitivity**
High degree of sensitivity as Ethium Bromide.
- **Convenience**
Ready to Use; Same application procedures as the 6X Loading Dye.
- **Speed**
No de-staining requirement, low background value, and image displayed after coupling with the nucleic acid.
- **Compatibility**
Use the Blue Light or UV to detect the signal; Broad compatibility range.
- **Economic**
Non-hazardous product; No expenses required for the waste management.

NOVEL JUICE

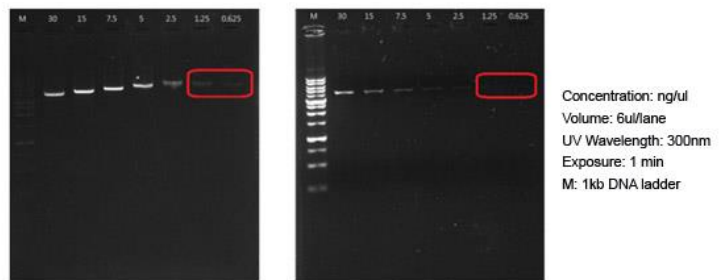
Non-carcinogen DNA staining dye

Ultra-Sensitive DNA Staining Reagent

Sensitivity > 1ng. More sensitive than ethidium bromide(1ng) and Sybr Safe (3ng)



Sensitivity Comparison under the LED Transilluminator: Novel Juice (left) and Sybr Safe (right)



Sensitivity Comparison under the UV Transilluminator: Novel Juice (left) and Sybr Safe (right)

Keeps your lab away from ~~EtBr~~ while giving the same sensitivity



AMES test, passed.

OECD 203, Fish Acute Toxicity test, passed.

Mammalian Chromosomal Aberration test, passed.

Tests conducted by Genotoxin Free
Mutagenicity Free
Environmental Safety



Agarose Tablets

Agarose tablet (0.5 g) – “ready to use”



Just take one tablet and add 50 ml gel running buffer , the result is a 1% gel.

