



# Denagene Tajhiz Company

Biotechnology Lab Equipment Manufacturer and Designer



## About Us

Established in 2014 in Tehran, at the Science and Technology Park of Tarbiat Modares University, Denagene Tajhiz proudly stands as a distinguished lab equipment manufacturing Iranian company.

Our focus lies in the design and manufacturing of laboratory and biotechnology equipment and materials, and we take pride in our active Research and Development unit dedicated to advancing essential products within these domains.

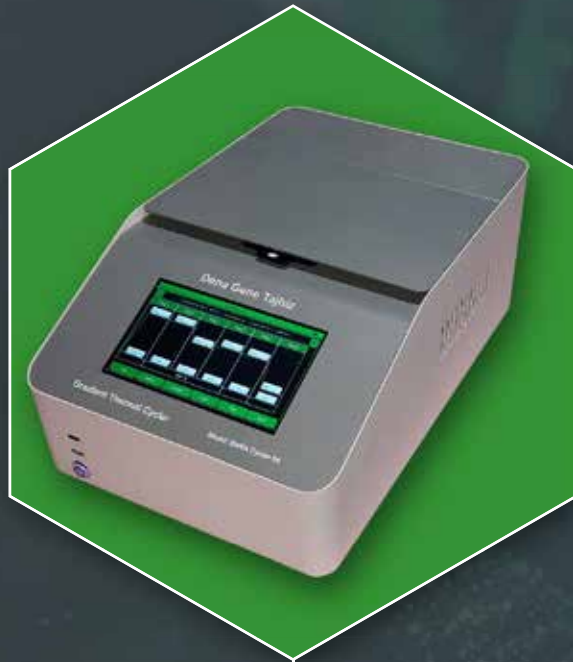
Our main goal at Denagene is to provide suitable, reliable, and precise solutions for biotechnology researchers and scientists, enabling them to achieve the best results in their experiments. We have strived to become a leading laboratory in Iran, focusing on quality, precision, and flexibility.

By leveraging the latest technologies, we strive to offer our services and equipment to fellow citizens at a level synchronized with global advancements.

A **thermal cycler**, also known as a PCR machine, efficiently performs the amplification of nucleic acids using Peltier technology. By amplifying DNA, various downstream processes such as diagnostics, cloning, genotyping, and sequencing can be easily performed.

The thermal cycler itself comes in both standard and gradient types. In the gradient mode, multiple temperatures can be applied simultaneously. Integrating the gradient feature into the thermal cycler system enables processes like primer optimization to be efficiently and rapidly conducted. Denagene Tajhiz has designed and produced both standard PCR and gradient PCR modes, offering them in the market.

The thermal cycler's excellent ramping speed allows users to define ramp rates ranging from 0.1 to 4 degrees Celsius per second for a PCR reaction. Denagene Tajhiz's gradient PCR devices provide a variety of models, professional device construction, suitable ramp rates, and incredibly user-friendly software, enhancing the experience of molecular work for users. We hope that by providing high-quality Iranian products to researchers and experts, we can contribute modestly to scientific advancement in our country.



## Gradient Thermocycler PCR

## Pause/Run Button

Used to pause and resume the reaction

## Heat Lid

Used to heat the samples to a high temperature. This action applies thermal pressure to

## Air ventilation paths

for ventilation of the PCR device

## Touchscreen

To bring up the software and user interface

## USB Port

Used for connecting the command interface cable and running the reaction

## Power Button

Used to turn the device on and off

## Pause/Run Button

Used to pause and resume the reaction

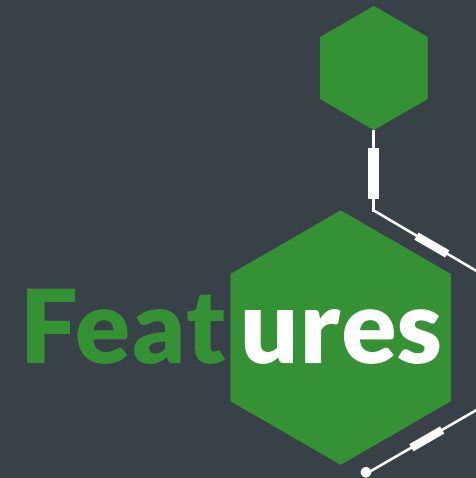




# Applications

- Immunology
- Forensic Science
- Cancer Diagnosis
- Population Biology
- Paleontology
- Zoology
- Plant Science Research
- Clinical Diagnostics of Viruses, Tumors, and Genetic Diseases.

- Uniform Temperature Throughout the Block
- Various Programmable Settings and Infinite Mode
- Dynamic Programming System
- Excellent Temperature Control System
- Suitable Ramping Rate
- Eco Mode Capability
- Ability to Define Temperature Zones with High Precision (Instead of Temperature Gradient)
- 18-Month Warranty
- Heat lid to prevent sample evaporation in the block



# Features

# Technical Specification

Gradient Thermocycler PCR

Model	DeNA Cycler 32	DeNA Cycler 64
Sample Capacity (ML)	32 * 0.2	64 * 0.2
Temperature Range ( °C)	4_ 100	4_ 100
Temperature Control Accuracy ( °C)	0.1	0.1
Average Temperature Rise Rate ( °C)	3	3
Average Rate Of Temperature Decrease ( °C)	2.5	2.5
Maximum Rate Of Temperature Change ( °C)	4	4
Temperature Uniformity ( °C)	±0.4 at 50	±0.4 at 50
Maximum gradient regions ( °C)	2 zones	4 zones
Gradient Range ( °C)	8	8
Lid Temperature	Default on 105, but can be variable	Default on 105, but can be variable
Thermal Blocks Mode	yes	yes
Maximum Number Of Steps	100	100

# Technical Specification

Gradient Thermocycler PCR

Model	DeNA Cyclcr 32	DeNA Cyclcr 64
Maximum Number Of Cycles	100	100
Maximum Number Of Programs	Unlimited	Unlimited
LCD Dispalay	7" HDMI Display	7" HDMI Display
USB Port	yes	yes
Dimensions (height*width*length CM)	17 *26 * 40	17 *26 * 40
Weight (KG)	8	9
Operating Temperature ( °C)	10 - 30	10 - 30
Power (W )	400 W	600 W



PCR



## Gradient Thermocycler PCR

**PCR** is widely regarded as the gold standard in diagnostic assays, allowing for the rapid and precise detection of infectious diseases through the analysis of small DNA and RNA samples from patients. Designed with user-friendly software and robust construction, our Gradient Thermocycler PCR guarantees ease of use, durability, and high performance, making it a valuable investment for any research facility.





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# Molecular Biology Is Our Business

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