



# **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.

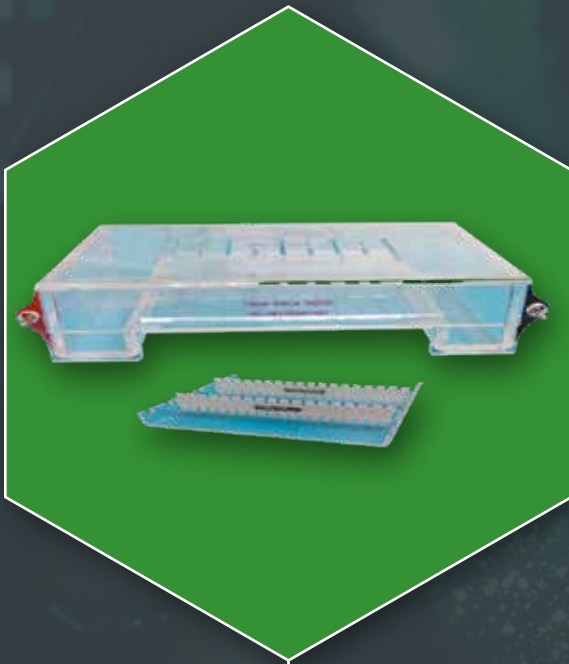
By leveraging the latest technologies, we strive to offer our services and equipment to fellow citizens at a level synchronized with global advancements.



**Horizontal electrophoresis (agarose gel)** is a technique used for the separation and analysis of DNA and RNA. The principle of separation in electrophoresis involves the movement of charged molecules in a medium under an electric field, which is accomplished using a device called a horizontal electrophoresis tank.

Horizontal electrophoresis is commonly used in cellular and molecular biology laboratories. Denagene Tajhiz Company is a leading manufacturer of various models of horizontal electrophoresis equipment for nucleic acid separation.

To ensure long-term use and resistance to various conditions, Denagene's electrophoresis tanks are made with the best materials and designed to be user-friendly for researchers.



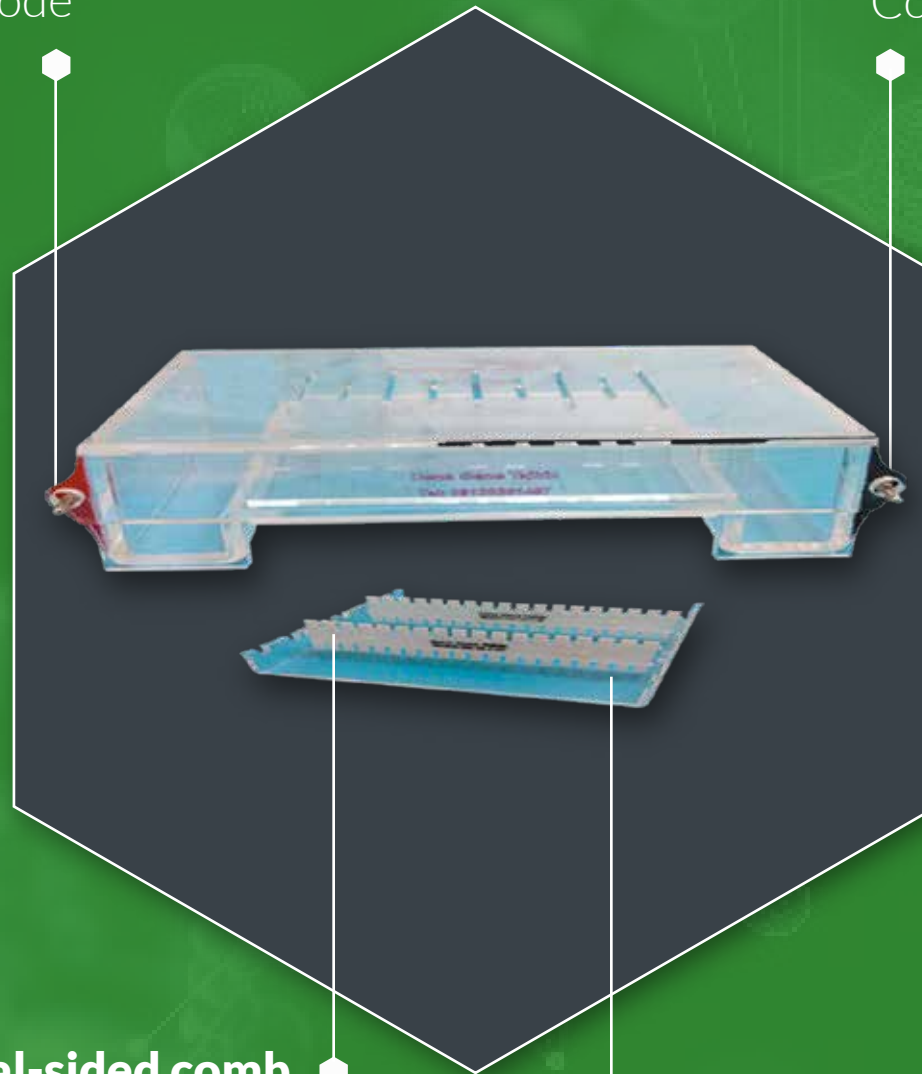
## Horizontal Electrophoresis

## Cathode

Connection point for the electrode

## Anode

Connection point for the electrode



## Dual-sided comb

For creating wells

## Get tray


For placing the gel



## Applications

- Estimating the size of DNA molecules after restriction enzyme digestion: For example, mapping cloned DNA after exposure to restriction enzymes.
- Analyzing PCR products: For example, in genetic diagnosis or genetic fingerprinting.
- Separating DNA fragments for extraction and purification.
- Separating fragmented genomic DNA before Southern blotting or RNA before Northern blotting.

- Compatibility with multi-channel pipettes for easier sample loading
- Gel casting capability, no need for adhesive
- Use of pure platinum in electrode design
- Uniform current distribution along the electrodes
- Suitable for research and diagnostic centers
- Use of high-quality raw materials
- Option to purchase a custom model



## Features

# Technical Specification

Horizontal Electrophoresis

Model	Midi HD 10*10	Maxi HD 15*15	Maxi Plus HD 20*20
Gel Dimensions (cm)	7*10 & 10*10	10*10 & 15*15	20*20 & 15*20
Buffer Volume (ml )	300	500	1200
Well Quantity	10 & 14	20 & 23	25 & 31
Maximum Sample Quantity	28	69	124

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## Horizontal Electrophoresis

is a technique used to separate and analyze DNA, RNA, and proteins, which is essential for molecular research and disease diagnostics.

The robust design and ease of use of Denagene Tajhiz's device streamline laboratory processes and help reduce user errors.



# Contact Us

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# Denagene, The Powerful Gene

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