

Matrix AutoMini-40 Analyzer Technical Specifications

- Fully automated processor for Matrix gel cards based on Gel Column Agglutination Technology.
- Single needle pipetting system with clot and liquid level detection.
- Sensor based Transportation arm for transportation of Matrix gel cards between different modules.
- Incubation block with 12 Matrix gel cards capacity.
- Unique Piercing blocks for piercing 1 to 6 any number of microtubes.
- Centrifuge of 85g with 12 Matrix gel cards capacity.
- Sample loading capacity for 45 primary tubes with continuous loading.
- Capacity to load 24 Matrix Gel cards with continuous loading.
- 2 Barcode scanner. One for samples & reagent red cells and other for Matrix gel cards.
- Direct loading of LISS diluent and Deproteinisation solution bottle.
- Gel Card reader for reading the reactions and interpretation of results.
- STAT mode facility for priority samples.
- Complete usage of partially used Matrix Gel Cards.
- Self-check system: the instrument executes a self-check of its hardware & Inventory before it starts a new session.
- Bi-directional LIS interface.
- Proudly Made in INDIA

Matrix™ Gel System - Card Parameters

- | | |
|--|---------------------------------------|
| Matrix™ Forward & Reverse Grouping Card with Autocontrol | Matrix™ Neutral Gel Card |
| Matrix™ Forward Grouping Confirmation Card | Matrix™ Coombs and Neutral Gel Card |
| Matrix™ Forward Grouping DAT Card | Matrix™ Rh Phenotype Card with Anti-D |
| Matrix™ Neonate Group Card | Matrix™ Rh Phenotype Card with Anti-K |
| Matrix™ AHG (Coombs) Test Card | Matrix™ ABO Subgrouping Card Anti-A1 |
| Matrix™ Coombs Anti-IgG Card | Matrix™ ABO Subgrouping Card Anti-H |
| Matrix™ Forward Grouping Crossmatch card | Matrix™ Direct Antiglobulin Test Card |

ISO 13485
Certified Company



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a revvity company

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Fully Automated Analyzer for Matrix Gel Cards

Quality Products with Value Addition

Tulip has consistently led the way in empowering laboratories by introducing innovative indigenous products. Over the past few decades, Matrix Gel Cards have become a basic need for blood banks and laboratories. Now, we are setting a new standard by introducing automation for all Immunohematology (Ih) laboratories.

Introducing the **STAR**
Simplistic Design
Technological Excellence
Agile Performance
Reliable Results



Biosite
MEDICAL INSTRUMENTS

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In recent years automation in Immunohematology has gained preference and technical upgradation has added to this shift. Automation in Immunohematology Laboratory increases the efficiency with complete integrity for results. The available IH automation solution are only compatible with high sample load blood banks and laboratories, but Safety, Security and Integrity are required at each blood bank or laboratory. We understand the need for IH Automation for low to medium sample load blood banks and laboratories.

Living the vision for “Better Testing Systems for Better Diagnostics” we created **Matrix AutoMini-40** to answer the need for all kinds of blood banks and laboratories.

Feature & Benefits

- **Random Access System**
 - Modular System with total Security & Integrity
 - STAT facility for emergency samples
 - Continuous loading
- **Efficient Pipetting System**
 - Liquid level, Clot & empty tube detection
 - Anti bang system
- **Integrated Barcode System**
 - Barcode reader for Samples, Reagents & Matrix Gel Cards
- **Flexible & User friendly**
 - Unique piercing system
 - Onboard inventory management
 - Sensor based waste management



Pipetting Station:

Unique needle design for faster pipetting of sample and reagents with liquid level, clot & empty tube detection facility.

Dilution Area:

For accurate preparation of red cell suspension.

Sample Loading Area:

Up to 45 samples with continuous loading facility.

Reagent Loading Area:

Independent reagent rack with continuous shaking facility.

Gel Card Loading Area:

24 Matrix gel cards with continuous loading facility.



Centrifuge Area:

12 Cards capacity centrifuge with 85g.

Piercing Blocks:

For piercing 1, 2, 3, 4, 5 or all 6 microtubes depending upon the test and sample requirement.

Partial Used Card Area:

In case of partially used card, software keep record and make it available for next test in sequence to avoid wastage of unused microtube.

Incubation Area:

12 Cards capacity incubation block with prefixed at 37°C temp.

Matrix AutoMini-40 is far more capable than its size. Apart from being Elegant it can handle sample load of small to medium size blood banks and laboratories. And all this comes with Trusted Matrix Gel Cards.