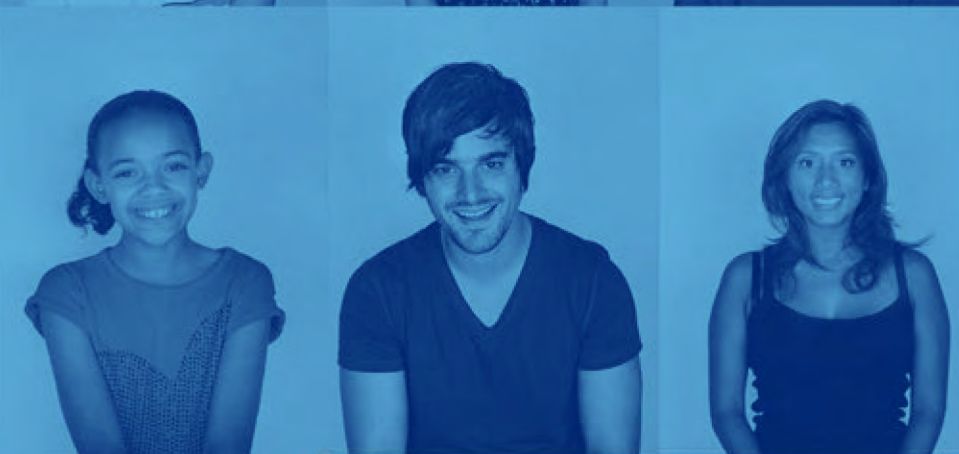


THEY

ARE

COMPATIBLE



erytra®



BLOOD TYPING SOLUTIONS
Compatible with you

GRIFOLS

SAFETY
VERSATILITY
& BEAUTY



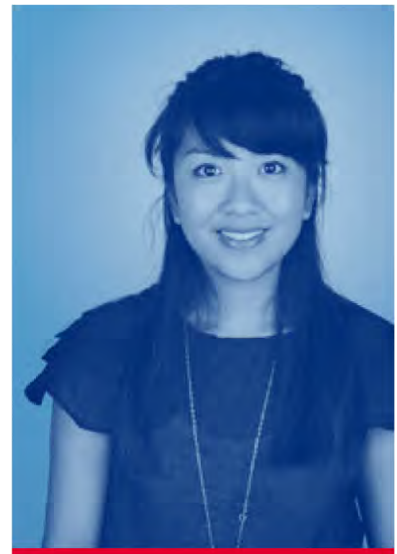
GRIFOLS

GRIFOLS

At Grifols, we know that your primary concern in blood transfusions is to ensure patient safety. After fifty years of experience in the field of transfusion medicine, we have demonstrated that safety is also our number one priority.

Blood compatibility between donor and patient is the key to guaranteeing this safety. For more than twenty years, Grifols has researched and developed blood typing systems that have enabled millions of safe transfusions to be performed all over the world.

Thousands of immunohematology laboratories currently use Grifols' unique eight-column DG Gel® cards and the Wadiana® analyzer, which has been internationally acclaimed the instrument of reference for the automatic processing of gel agglutination cards.





Erytra® is our latest development in automated systems; this innovation is the result of paying careful attention to your concerns and expectations for the future.

Erytra® is a fully automatic, high throughput, high capacity instrument for performing pre-transfusion compatibility tests using gel technology. The instrument's excellent self-organizing capacity optimally performs all the different steps needed for typing blood groups and identifying unexpected antibodies.

Erytra® is efficient and flexible to adapt to your laboratory and assist you in delivering highly reliable results, in as little time as possible, to ensure the safety of your patients.

Our ultimate goal is compatibility, which starts by being compatible with you.

BLOOD TYPING SOLUTIONS
Compatible with you

“I want an instrument that will handle high workloads efficiently”

Erytra® has a loading capacity of up to 400 DG Gel® cards or the equivalent of 3,200 tests. It is a true walk-away instrument with a non-stop autonomy of up to 4 hours.

“I need to have continuous access”

The DG Gel® racks load directly on to the Erytra® multi-drawer system without interruption. The samples and reagents can be placed randomly in the drawers.

“It must suit the way I work”

You can configure Erytra® to fit your requirements, by defining worksheet layouts, user profiles and priorities. Any type of tube can be processed including pediatric tubes or those with plungers.



“It’s urgent!”

Erytra® can work by batch or by sample, and it also handles urgencies effectively. Urgent samples are treated with priority and processed immediately; simply load the samples randomly in any position, and click the STAT button.

“I need to be flexible in the daily routine”

After minimal training laboratory staff can easily work with Erytra®, since it requires very little intervention: Simply load, select and process!

User interaction is easy with intuitive software and a touch screen interface. Staff can remotely access the instrument, and it will also issue a warning if any intervention is required.

“I want maximum quality and safety in the results”

Erytra® provides high definition color results. The digital zoom gives a clear close-up picture for extra assurance. Erytra® automatically performs a series of controls during sample processing such as card integrity check before and after processing.

“Design is important to me”

Erytra® uses latest generation software and an adjustable touch screen monitor that can be adapted to suit the operator. The upright design of the Erytra®, achieved by using internal elevators, makes intelligent use of laboratory space, and the transparent casing provides a clear reliable view of the process inside.



“I need a premium-quality cost-effective system”

Erytra® delivers high quality results more efficiently due to its eight-column DG Gel® format and its unique simultaneous perforation and dispensing technology.



“I want it to be environmentally friendly”

This system avoids cross-contamination and means that all of the wells in the card can be fully used, making it more cost-effective.

During production, DG Gel® cards undergo a unique airtightness quality test. In the laboratory a quick visual inspection is sufficient to determine whether the card is in optimum condition for use.

Erytra® does not use any disposable items. The DG Gel® exclusive double rack makes better use of natural resources. Erytra® uses every single well on the DG Gel® card: partially used cards travel to the service rack and are reprocessed, therefore drastically reducing the amount of waste.

“I need an after-sales service that lets me take care of my patients without any interruptions”

Direct contact with the manufacturer means you will receive immediate high quality service and support. Grifols products have international after-sales support through Grifols subsidiaries or network of distributors.

Intelligent organization in 3 different working levels

1 TOP LEVEL



Management of samples and reagents in multiple drawers for continuous access

- Detection of the presence and diameter of samples and reagents
- Positive identification of samples and reagents
- Automatic check for tube stoppers
- Fluid level monitoring
- Clot detection and automatic system recovery
- Dilution and homogenization of samples by intelligent agitation
- Maintenance of the red blood cell reagent suspension
- Dispensing of samples, red blood cell reagents and liquid antisera
- Arm with two probes. Integrated probe washing station
- Double dilution station. Automatic washing

2 MIDDLE LEVEL



DG Gel® card management: capacity 400 cards (3,200 tests)

- Storage of DG Gel® cards for daily routine
- Detection of the presence of DG Gel® cards, identification and transportation of DG Gel® cards
- Monitoring of the number of DG Gel® cards
- Four independent movable incubators with automatic intelligent temperature control (25°C and 37°C depending on the technique to be processed)
- The number of service racks can be configured to adapt to your inspection requirements

3 LOWER LEVEL



System solutions management: excellent autonomy

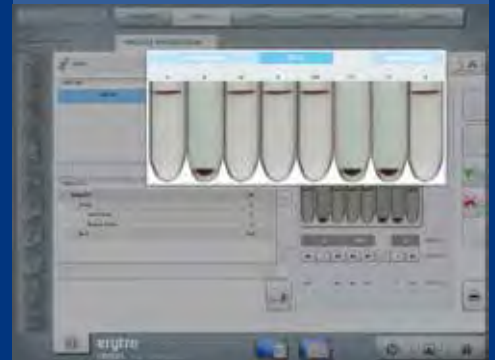
- Stock of washing and waste solutions. Optional direct drainage to laboratory
- Disposal of used cards
- Monitoring of the level of Erytra® solutions and the number of cards used.
- Dispensing verification of the DG Gel® cards
- Centrifuging of DG Gel® cards
- Reading of results

Erytra[®] software:

The Erytra[®] latest generation intuitive software optimally handles the routine work at large immunohematology laboratories.

CLEAR RESULTS

- Digital readout of results
- High resolution color image
- Digital zoom provides a clear close-up picture for extra assurance



Clear results

REAL-TIME INFORMATION

- Information is provided on the position and status of samples, reagents and cards, as well as the functioning of incubators and centrifuges
- The time remaining for samples to be completed is displayed
- The operator receives system warnings in real time



Real-time information

MAXIMUM SAFETY

- System access is password controlled
- The entire process and the results are fully traceable
- Specific roles can be configured for each user with different permissions
- Automatic database back-up function



Maximum safety

REMOTE ACCESS

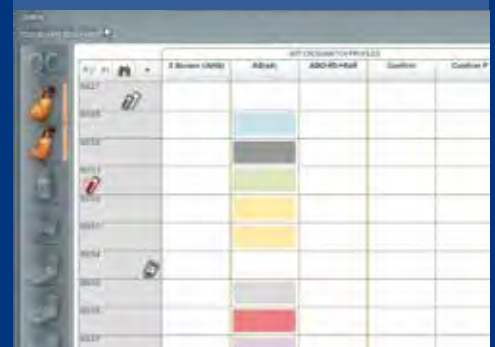
- Database access from any computer with an internet connection
- Validation of results
- View warnings in real-time
- Monitor the status of the autoanalyzer and the samples

QUALITY CONTROL

- Configurable quality control policy
- Dedicated management of the QC results

EFFICIENT COMMUNICATION

- Bidirectional connection to the LIS (Laboratory Information System)
- Communication with other Grifols Systems (WADiana[®], DG Reader)
- It is possible to work with several interconnected Erytra[®] units



Warnings in real-time

LIST OF TECHNIQUES

Full ABO/Rh blood group typing (forward and reverse)
Rh + Kell phenotype
Weak D
Crossmatch test
Unexpected antibody screening
Identification of unexpected antibodies
Enzyme assays
Direct Coombs test
Determination of special antigens
Self diagnostic

THROUGHPUT

Maximum throughput: 100 cards/hour (800 results/hour)¹
Full ABO/Rh blood group typing: 66 samples/hour²
Antibody screening (I, II, III, IV): 147 samples/hour

Throughput depends on the profiles being processed:

¹Results obtained with DG Gel® Rh Pheno + Kell

²Results obtained with DG Gel® ABO/Rh (2D) (profile: A, B, AB, D^{VI-}, D^{VI+}, Ctl., N_{A1}, N_B)

CAPACITY

54 reagents: 36 agitated, 12 non-agitated and 6 diluents
(non-agitated reagents can be extended to 48)
96 samples: 4 drawers x 2 racks x 12 positions
400 DG Gel® cards
Washing solutions:
8 L DG Fluid A solution (extendable to 16 L)*
8 L DG Fluid B solution (extendable to 16 L)*
16 L waste solution*

*With optional direct drainage to laboratory

SIZE AND WEIGHT

Depth: 70 cm
Width: 110 cm
Height: 175 cm
Weight: 350 kg

POWER SUPPLY

Voltage: 100-240 V ~
Frequency: 50-60 Hz
Maximum consumption: 600 W

Reference	Product List	Product description
210402	Erytra®	A fully automated instrument with a high processing capacity for pre-transfusion compatibility tests using DG Gel® cards
213713	Erytra® Sample Rack	Additional rack for loading samples inside the Erytra® analyzer
213723	Erytra® Sample Rack labels	Labels with barcodes for configuration of the sample racks for special tubes
233738	Erytra® System Solution Container	Additional container for the diluted system washing solutions (DG Fluid A or DG Fluid B)



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