wadiana

Used by thousands of labs to ensure safer transfusions

The Wadiana analyzer works with Grifols universal reagent and DG Gel cards

Committed to patient safety

For more than twenty years, Grifols has researched and developed blood typing systems that have enabled millions of safer transfusions to be performed all over the world.

No two IH labs are alike, therefore Grifols offers a scalable range of instruments that are specifically tailored to suit different processing needs.

All-in-one analyzer

One of Grifols most widely used instruments is the Wadiana analyzer. It is the ideal instrument for taking the all-important steps from manual to automatic processing. The analyzer increases patient safety by reducing the possibility of errors and providing you with full traceability. The results are precise and reliable and processing is much easier with this fully automated analyzer.

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Full automation for DG Gel cards

Technical specifications

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

Full ABO/ Rh blood group typing: 22 samples/hour[1]
Antibody screening (I, II, III): 29 samples/hour
Type & Screen: 12 samples/hour[2]

Throughput depends on the profiles being processed:

1. Results obtained with DG Gel ABO/Rh (2D) (profile: A, B, AB, DVI-, DVI+, Ctl., N/A1, N/B)
2. Results obtained with DG Gel ABO/Rh (2D) and antibody screening (I, II, III)

CAPACITY

Loading capacity

- 18 reagents (16 reagent vials and 2 diluents)
- 48 samples
- 24 DG Gel cards

Centrifuge capacity

- 12 DG Gel cards (96 tests)

DIMENSIONS AND WEIGHT

Width	100 cm (39 in)
Depth	60 cm (24 in)
Height	65 cm (26 in)
Weight	87 kg (192 lb)

ELECTRICAL REQUIREMENTS

Voltage	100-120/220-240 V
Frequency	50-60 Hz
Input power	300 W

REFERENCE	PRODUCT LIST	PRODUCT DESCRIPTION
213787	Wadiana Compact	Fully automated instrument for the processing of DG Gel cards
213778	Diana BCC	Duplicate barcode label printer
213679	DG Fluid A	Saline-based solution for internal washing of the fluid systems and probes.
213678	DG Fluid B	Tensioactive solution used for internal washing of the fluid system and probes of the instrument.

This equipment complies with the Directive 98/79/EC of the European Parliament and of the Council on "*in vitro* diagnostic medical devices". CE Mark Certification.

Product registration and commercial availability varies by country. Ask your Grifols representative for more information.

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TRANSFUSION MEDICINE

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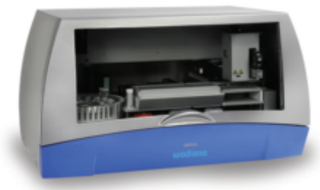
A smart option for your laboratory



TYPING

GRIFOLS

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Reliable, traceable results in a compact design

The Wadiana is a fully automated compact instrument, designed and manufactured by Grifols, to process DG Gel cards in pretransfusion compatibility tests.

It combines Grifols proven robust technology with the flexibility you need to conduct your daily routine.

Achieve full traceability

- Walk-away system – once processing starts, minimum user intervention is required
- Bidirectional communication with the LIS
- Password-controlled access for each user

Lessen the workload

- The analyzer is ready for processing in just 4 minutes
- The highly intuitive software can be easily and quickly programmed
- A functional worksheet is used to schedule the daily workflow

Get high-quality, reliable results

- The DG Gel 8-well format lets you configure the most complete[1] and unique test profiles
- DG Gel incorporates a rigorous quality control test to ensure airtightness - with just a quick visual inspection, any user can see whether the card is in optimum condition for use
- Wadiana performs several control checks during the test procedure, such as the card integrity check at the beginning of the test procedure

Reduce potential errors

- There is no need to manually enter data – the Wadiana positively identifies both samples and reagents
- Grifols unique simultaneous perforation and dispensing technology helps to avoid cross-contamination and supports the 100% use of well cards
- The Wadiana automatically checks that dispensing reaches the required volume by imaging all of the wells

POWERED BY DGgel® TECHNOLOGY

DG Gel technology
Wadiana uses universal DG Gel cards with 8-well format

[1] Kokubunji et al. Vox Sanguinis 2011; (Suppl 2) 101 P-227

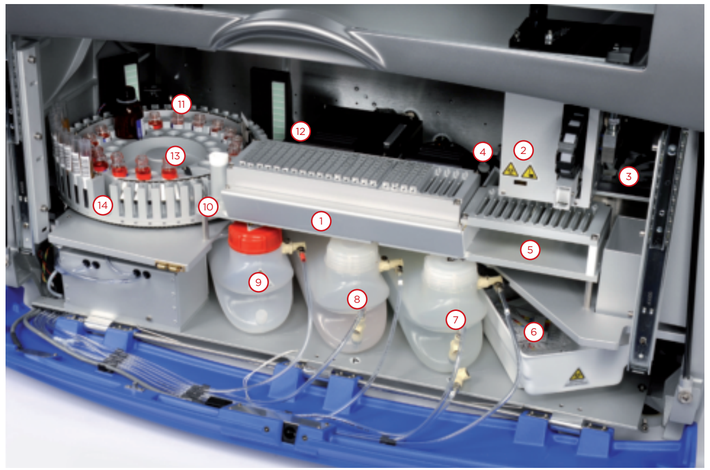
Wadiana automatically performs all the required steps of the test procedure

1. Identification → 2. Dilution → 3. Dispensing → 4. Incubation → 5. Centrifuging → 6. Reading → 7. LIS

1. Positive identification of samples and reagents
2. Dilution of samples at a dedicated dilution station
3. Dispensing of samples and reagents through the exclusive simultaneous piercing and dispensing technology
4. Incubation of DG Gel cards in two independent configurable blocks (25ºC, 37ºC)
5. Centrifuging of DG Gel cards
6. Reading of results by CCD camera. Digitalization, interpretation and reporting of results
7. Bidirectional data transmission to the LIS (laboratory information system)

Internal instrument components

1. Incubators/working table
2. Arm with gripper & probe
3. Centrifuge
4. Reader
5. Service rack
6. Card disposal tray
7. DG Fluid A wash solution bottles
8. DG Fluid B wash solution bottles
9. Waste bottle
10. Dilution station
11. Reagents CCD camera
12. Samples CCD camera
13. Reagents carrousel
14. Samples carrousel



Flexible and adaptable

- Random positioning of samples and reagents
- Multi-diameter tube loading without adaptor
- Ability to connect an additional external barcode reader
- Network connection between different Wadiana units

Robust hardware

- Probe impact detector – anti-crash needle system
- Clot detection and recovery
- Anti-dropping control system
- Dilution station with auto-wash and anti-block system
- Continuous monitoring of levels (reagents, diluents, wash, and disposal solutions)

Cost efficient and environmentally friendly

- Partially used cards are reprocessed and every well is used
- Non-disposables
- Optimized reagent consumption
- Exclusive DG Gel double-decker rack
- DG Gel 8-column format provides maximum information at a minimum cost (less cards are needed)

Customized performance

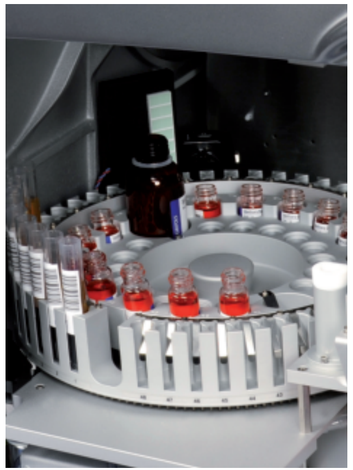
- Customized installation and configuration of the instrument
- Configurable user passwords at different functional levels
- Operating modes – by batch, by sample, and STAT

Quality control

- The Wadiana verifies the expiry date and batch compatibility of all reagents
- Integrated quality control software application with dedicated reports
- Open configuration

Service and support

- High-quality service and support
- International after-sales support through Grifols affiliates or distributors in direct contact with the manufacturer
- Minimal preventive maintenance*



Carrousel with random positioning of samples and reagents

Working table and incubator with two independent areas for 37ºC and room temperature incubations

* Only monthly maintenance is required.