



MDmulticard®

A FIVE-CENTIMETER
LABORATORY THAT CAN SAVE
A LIFE IN FIVE MINUTES

BLOOD TYPING SOLUTIONS
Compatible with you



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ABO/Rh(D), Rh and K typing in just 5 minutes

FAST

For more than fifty years, Grifols has been providing immunohematology professionals with products that help make blood transfusions safer. Our experience and in-depth knowledge of transfusion medicine provides us with the insight to adapt technology and to provide you with **the solutions you need.**

MDmulticard® is just one example.

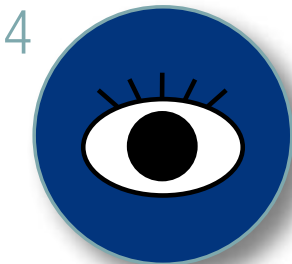
This innovative card, based on the lateral flow technique, lets you **determine a patient's ABO Group*, Rh (D), Rh phenotype and K** in **five minutes** with just a single drop of blood.

The card was specifically designed to simplify standard methods and optimize the work flow in extreme situations, so that patients are attended more quickly.



*MDmulticard® is useful to perform forward ABO grouping. In life-threatening emergency situations, test procedures can be reduced and therefore reverse grouping can -in accordance with most National Guidelines- be omitted. References: BCSH Guidelines, German Guidelines

EASY



MDmulticard® uses a very simple, straightforward procedure requiring very little manipulation; it does not require expert knowledge in immunohematology, and **no instrumentation** is needed, so the test can be carried out anywhere.

Four simple steps:

- 1 Prepare a red blood cell suspension with 1 drop (50 μ l) of **whole blood** and 4 drops (200 μ l) of Diluent F.
- 2 Dispense 2 drops (100 μ l) of this suspension to the application zone.
- 3 After 30 seconds, add 6 drops (300 μ l) of Diluent F.
- 4 **Wait 5 minutes** read and record the results.

MDmulticard® has a long shelf-life at room temperature, and requires only a small bench-top space for processing, making logistics and handling absolutely effortless.

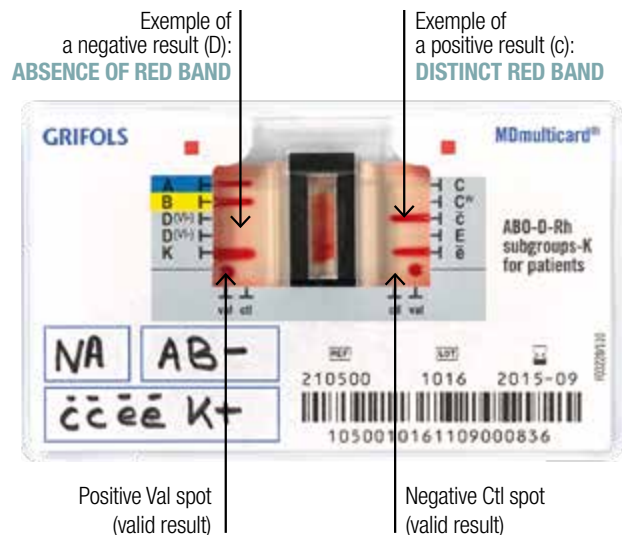
RELIABLE

MDmulticard® provides fully reliable and accurate results which are easy to interpret.

Lateral flow technology is as **sensitive** and **specific** as Column Agglutination Technology, and no further testing is required.

Unlike conventional tube methods, the **MDmulticard®** involves **little** user **intervention**, so the possibility of error during processing or interpretation of results is greatly reduced.

The card includes **internal controls** (val and ctl) that confirm the test integrity. These controls run automatically and no additional efforts are needed.



STABLE

MDmulticard® provides stable results in five minutes that are **valid up to 72 hours** after performing the test.

As opposed to the conventional tube method, it is easy to review the results and keep a record of these if desired.

MOST CONVENIENT METHOD FOR EMERGENCIES

EXTRA HELP IN COMPLEX CASES

MDmulticard® is ideal for use in **life-threatening emergency situations**, where patients require **immediate attention**.

How does MDmulticard® compare to the tube method in emergencies?

- It is **EASIER** and it is also **FAST**.
- It is more **RELIABLE** and the results remain **STABLE** for longer.
- It is more **COST-EFFECTIVE**: MDmulticard® is ready to use with whole blood, so hospital staff need no preparation time, and no reagents are wasted.
- It provides information on **10 PARAMETERS** in one single assay, to help avoid alloimmunization of critical patients by administering them compatible Rh and K components.

MDmulticard® is an excellent complement to your routine techniques for resolving complicated cases such as:

- Confirmation of **weak phenotypes**
- Typing patients with a **positive Direct Antiglobulin Test**
- Identification of **double populations** with a **very minority population** (e.g. 80% vs 20%)
- Typing of **newborns** with very **low sample volume**: minimum volume required by MDmulticard® is 25 µl.

MDmulticard® ABO-D-Rh subgroups-K for patients



MDmulticard® ABO-D-Rh subgroups-K for donors



MDmulticard® ABO-D CONFIRM for patients



MDmulticard® ABO-D CONFIRM



MDmulticard® Rh subgroups + K DOUBLE



MDmulticard® System:

Choose the model that best suits your blood typing protocols:

- 10-parameter cards that include ABO/Rh(D) group, Rh phenotype and K.
- Cards with 3 or 4 ABO confirmatory parameters.
- Card for the double determination of the Rh phenotype and K.

REFERENCE	PRODUCT	PRESENTATION	PROFILE
210500	MDmulticard® ABO-D-Rh subgroups-K for patients	1 x 10 cards	A-B-D ^{VI} -D ^{VI} -K- C- C ^w - c- E- e
210501	MDmulticard® ABO-D-Rh subgroups-K for donors	1 x 10 cards	A-B- AB- D ^{VI+} -D ^{VI} - C- c- E- e- K
210503	MDmulticard® ABO-D CONFIRM for patients	1 x 10 cards	A-B-D ^{VI} -
210505	MDmulticard® ABO-D CONFIRM	1 x 10 cards	A-B- D ^{VI+} -D ^{VI} -
210502	MDmulticard® Rh subgroups + K DOUBLE	1 x 10 cards	C ₍₁₎ - c ₍₁₎ - E ₍₁₎ - e ₍₁₎ - K ₍₁₎ - C ₍₂₎ - c ₍₂₎ - E ₍₂₎ - e ₍₂₎ - K ₍₂₎
210504	Diluent F	1 x 50 ml	-

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MDmulticard® System complies with the Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices. CE Mark Certification.