

## ID-System

2018-2019 Product Catalog



## **Bibliography**

[1] Issitt,

P. D. + Anstee: *Applied Blood Group Serology*, 4<sup>th</sup> ed. 1998;  
Montgomery Scientific Publications,  
Miami, Florida, USA.

[2] Mollison P. L.,

Engelfriet C. P. and Contreras  
M.: *Blood Transfusion in Clinical Medicine*. 9<sup>th</sup> ed. 1993;  
Blackwell Scientific Publications, Oxford.

[3] Mollison P. L.,

Engelfriet, C.P. and Contreras,  
M.: *Blood Transfusion in Clinical Medicine*, 10<sup>th</sup> ed. 1997;  
Blackwell Scientific Publications, Oxford.

[4] Daniels G.,

*Human Blood Groups*  
publ.: Blackwell Science Ltd., 1995.

[5] Reid M.E., et al.

*The BLOOD GROUP ANTIGEN Facts Book*  
Elsevier, 3<sup>rd</sup> Edition, ed. 2012.

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## Blood Grouping ABO/D with Monoclonal Antibodies

Frequencies of the different ABO blood groups (according to Reid, M.E. [5]) in the Caucasian population:

O	44%
A	43%
B	9%
AB	4%

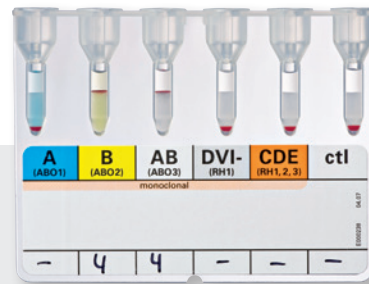
Current recommendations for RhD typing suggest that, for transfusion recipients and antenatal patients, anti-D

reagents should not detect the DVI phenotype. Individuals possessing the DVI phenotype may produce an anti-D to the missing epitopes after immunization by fetal or transfused RhD positive cells. To ensure that appropriate therapeutic measures are instigated, DVI patient's red cells should be assigned RhD negative status.

Conversely, donor bloods should be tested with anti-D that does detect DVI and assigned RhD positive status, to avoid the unit being transfused to an RhD negative or partial D patient.

## DiaClon ABO/Rh for Patients

Offers a complete test profile for forward typing of ABO, RhD (DVI neg.) and CDE in one single test procedure.



### Ordering Information

Catalog # Description

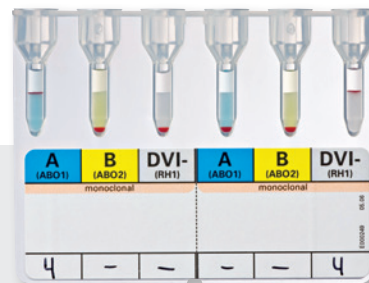
#### DiaClon ABO/Rh for Patients

001044	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) <b>48 profiles</b> , 4 x 12
001043	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) <b>288 profiles</b> , 24 x 12
001046	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) <b>720 profiles</b> , 60 x 12
001045	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) <b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** LHM59/20 (LDM3), 175-2, **CDE:** MS-24, MS-26, MS-201, MS-80

## DiaClon ABD-Confirmation for Patients

The ABD confirmation ID-Card can be used for the ABO/D blood group control of patients.



### Ordering Information

Catalog # Description

#### DiaClon ABD-Confirmation for Patients

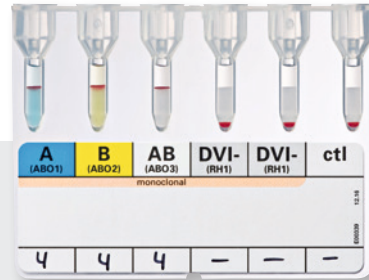
001254	A, B, DVI-, A, B, DVI- (Id-n°: 50053) <b>96 profiles</b> , 4 x 12
001257	A, B, DVI-, A, B, DVI- (Id-n°: 50053) <b>576 profiles</b> , 24 x 12
001256	A, B, DVI-, A, B, DVI- (Id-n°: 50053) <b>1,440 profiles</b> , 60 x 12
001255	A, B, DVI-, A, B, DVI- (Id-n°: 50053) <b>2,688 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** TH28, RUM-1, LDM1

## DiaClon ABO/DVI- for Patients

New

This ID-Card is used for ABO forward blood grouping and double RhD determination for patients as well as for newborns. Please note that certain guidelines require the detection of DVI for newborns.



### Ordering Information\*

Catalog # Description

#### DiaClon ABO/DVI- for Patients

001294 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52040) **48 profiles**, 4 x 12  
 001297 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52040) **288 profiles**, 24 x 12  
 001296 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52040) **720 profiles**, 60 x 12

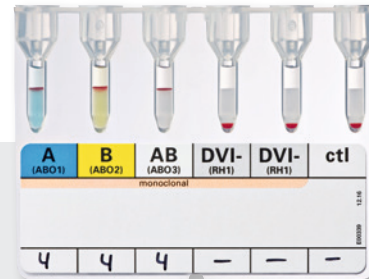
Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **AB:** ES131 (ES-15), Birma-1, ES-4,  
**D:** LHM50/3 (LDM1), TH-28, RUM-1, **D:** LHM59/20 (LDM3), 175-2

\* Available only for countries requiring CE marked products.

## DiaClon ABO/DVI-

New

This ID-Card is used for ABO forward blood grouping and double RhD determination for patients as well as for newborns. Please note that certain guidelines require the detection of DVI for newborns.



### Ordering Information\*

Catalog # Description

#### DiaClon ABO/DVI-

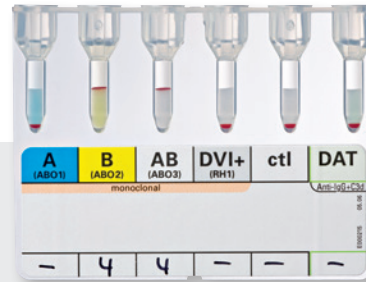
001424 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52050) **48 profiles**, 4 x 12  
 001427 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52050) **288 profiles**, 24 x 12  
 001425 A, B, AB, DVI-, DVI-, ctl (ld-n°: 52050) **1,344 profiles**, 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** LHM50/3 (LDM1), TH-28, RUM-1, **D:** LHM59/20 (LDM3), 175-2

\* Available only for countries requiring CE marked products.

## DiaClon ABO/Rh for Newborns DVI+

ID-Card **DiaClon ABO/Rh for newborns** employing monoclonal antibodies.  
The anti-D used will not react with all examples of weak D.



### Ordering Information

Catalog # Description

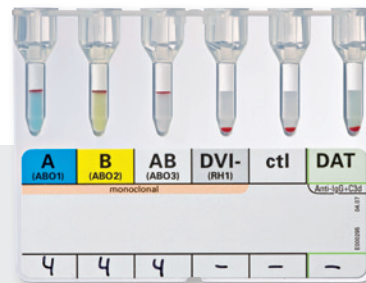
#### DiaClon ABO/Rh for Newborns DVI+

001047	A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) <b>48 profiles</b> , 4 x 12
001048	A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) <b>288 profiles</b> , 24 x 12
001049	A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) <b>720 profiles</b> , 60 x 12
001050	A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) <b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** ESD-1M, 175-2

## DiaClon ABO/Rh for Newborns DVI-

The monoclonal anti-D used in this ID-Card has been selected so as not to react with variants DVI.



### Ordering Information

Catalog # Description

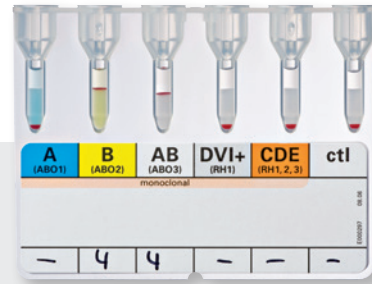
#### DiaClon ABO/Rh for Newborns DVI-

001027	A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) <b>48 profiles</b> , 4 x 12
001030	A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) <b>288 profiles</b> , 24 x 12
001028	A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) <b>720 profiles</b> , 60 x 12
001029	A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) <b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** LDM3, 175-2

## DiaClon ABO/Rh for Donors

This ID-Card for donors offers a complete test profile for forward typing of ABO, RhD and CDE in one single test procedure. The monoclonal anti-D used has been selected so as to react with variant DVI.



### Ordering Information

Catalog # Description

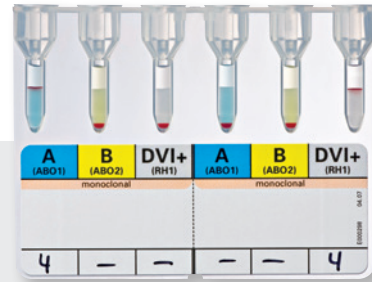
#### DiaClon ABO/Rh for Donors

001037	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011)	<b>48 profiles</b> , 4 x 12
001033	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011)	<b>288 profiles</b> , 24 x 12
001039	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011)	<b>720 profiles</b> , 60 x 12
001038	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011)	<b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** ESD-1M, 175-2, **CDE:** MS-24, MS-26, MS-201, MS-80

## DiaClon ABD-Confirmation for Donors

For the ABO/D blood group control of donors.



### Ordering Information

Catalog # Description

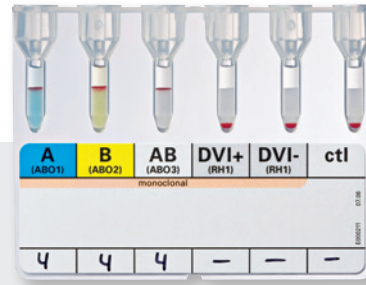
#### DiaClon ABD-Confirmation for Donors

001134	A, B, DVI+/A, B, DVI+ (ld-n°: 51051)	<b>96 profiles</b> , 4 x 12
001133	A, B, DVI+/A, B, DVI+ (ld-n°: 51051)	<b>576 profiles</b> , 24 x 12
001136	A, B, DVI+/A, B, DVI+ (ld-n°: 51051)	<b>1,440 profiles</b> , 60 x 12
001135	A, B, DVI+/A, B, DVI+ (ld-n°: 51051)	<b>2,688 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** ESD-1M, 175-2

## DiaClon ABO/D

The first anti-D detects the presence of the variant DVI, the second anti-D is negative for the variant DVI. Both antibodies are monoclonal.



### Ordering Information

Catalog # Description

#### DiaClon ABO/D

- 001324 A, B, AB, DVI+, DVI-, ctl (ld-n°: 50481) **48 profiles**, 4 x 12
- 001323 A, B, AB, DVI+, DVI-, ctl (ld-n°: 50481) **288 profiles**, 24 x 12
- 001326 A, B, AB, DVI+, DVI-, ctl (ld-n°: 50481) **720 profiles**, 60 x 12
- 001325 A, B, AB, DVI+, DVI-, ctl (ld-n°: 50481) **1,344 profiles**, 112 x 12

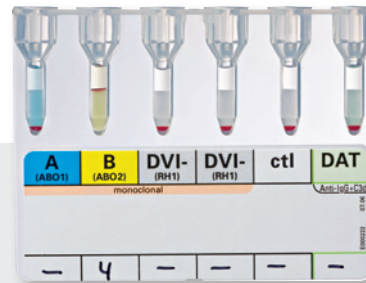
Cell lines: **A:** A5, **B:** G1/2, **AB:** ES131 (ES-15), Birma-1, ES-4, **D:** ESD-1M, 175-2, **D:** LHM59/20 (LDM3), 175-2

## DiaClon ABO/D + DAT

With this ID-Card a complete profile for ABO forward typing and RhD status can be obtained in one single procedure, including a direct anti-human globulin test (DAT).

The two anti-D antibodies in the ID-Card are negative for the variant DVI.

The test procedure is thus suitable for patients and not recommended for donors.



### Ordering Information

Catalog # Description

#### DiaClon ABO/D + DAT

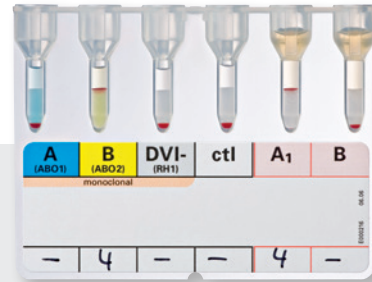
- 001344 A, B, DVI-, DVI-, ctl, DAT (ld-n°: 50492) **48 profiles**, 4 x 12
- 001347 A, B, DVI-, DVI-, ctl, DAT (ld-n°: 50492) **288 profiles**, 24 x 12
- 001346 A, B, DVI-, DVI-, ctl, DAT (ld-n°: 50492) **720 profiles**, 60 x 12
- 001345 A, B, DVI-, DVI-, ctl, DAT (ld-n°: 50492) **1,344 profiles**, 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **D:** LHM50/3 (LDM1), TH-28, RUM-1, **D:** LHM59/20 (LDM3), 175-2



## DiaClon ABO/D + Reverse Grouping

The microtube ctl is the negative control. Two microtubes with *neutral* gel serve for reverse grouping with A<sub>1</sub> and B cells.



### Ordering Information

Catalog # Description

#### DiaClon ABO/D + Reverse Grouping

001234	A, B, DVI-, ctl/A <sub>1</sub> , B (ld-n°: 50092)	48 profiles, 4 x 12
001237	A, B, DVI-, ctl/A <sub>1</sub> , B (ld-n°: 50092)	288 profiles, 24 x 12
001236	A, B, DVI-, ctl/A <sub>1</sub> , B (ld-n°: 50092)	720 profiles, 60 x 12
001235	A, B, DVI-, ctl/A <sub>1</sub> , B (ld-n°: 50092)	1,344 profiles, 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **D:** LHM59/20 (LDM3), 175-2

## DiaClon ABO/D + Reverse Grouping for Donors

The ID-Card **DiaClon ABO/D + Reverse Grouping for Donors** allows combined testing of forward and reverse grouping as well as RhD determination for confirmation of previously fully tested samples with established blood group status.

The monoclonal anti-D used has been selected so as to react with variant DVI.



### Ordering Information

Catalog # Description

#### DiaClon ABO/D + Reverse Grouping for Donors

001365	A, B, DVI+, ctl/A <sub>1</sub> , B (ld-n°: 51090)	1,344 profiles, 112 x 12
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Cell lines: **A:** A5, **B:** G1/2, **D:** ESD-1M, 175-2

*Supplies on request (10 weeks delivery time)*

## Phenotyping Rh/K

Besides the RhD antigen, other important antigens of the Rh system are: C, E, c and e. According to Reid, M.E. [5], their frequencies in the Caucasian population are as follows:

C	68%
c	80%
E	29%
e	98%
D	85%

Approximately 9% of the Caucasian population are K positive. The K antigen is strongly immunogenic. Anti-K has been reported as the cause of hemolytic transfusion reactions, both immediate and delayed, and hemolytic disease of the newborn.

## DiaClon Rh-Subgroups + K

This ID-Card offers a complete profile of the Rh phenotype including K-typing.

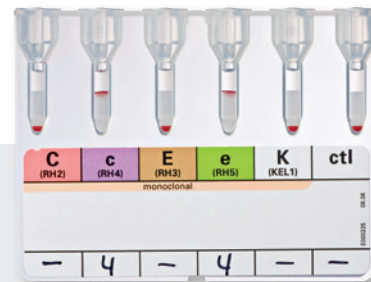
### Ordering Information

Catalog # Description

#### DiaClon Rh-Subgroups + K

002124	<b>C, c, E, e, K, ctl</b> (Id-n°: 50110) <b>48 profiles</b> , 4 x 12
002127	<b>C, c, E, e, K, ctl</b> (Id-n°: 50110) <b>288 profiles</b> , 24 x 12
002126	<b>C, c, E, e, K, ctl</b> (Id-n°: 50110) <b>720 profiles</b> , 60 x 12
002125	<b>C, c, E, e, K, ctl</b> (Id-n°: 50110) <b>1,344 profiles</b> , 112 x 12

Cell lines: **C**: MS-24, **c**: MS-33, **E**: MS-260, **e**: MS-16, MS-21, MS-63, **K**: MS-56



## DiaClon Rh + K Pheno II

This ID-Card offers a complete profile of the Rh phenotype including K-typing.

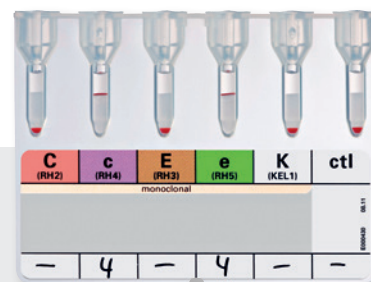
### Ordering Information

Catalog # Description

#### DiaClon Rh + K Pheno II

002224	<b>C, c, E, e, K, ctl</b> (Id-n°: 50710) <b>48 profiles</b> , 4 x 12
002227	<b>C, c, E, e, K, ctl</b> (Id-n°: 50710) <b>288 profiles</b> , 24 x 12
002226	<b>C, c, E, e, K, ctl</b> (Id-n°: 50710) <b>720 profiles</b> , 60 x 12
002225	<b>C, c, E, e, K, ctl</b> (Id-n°: 50710) <b>1,344 profiles</b> , 112 x 12

Cell lines: **C**: MS-273, P3x25513G8, **c**: 951, **E**: MS-80, MS-258, **e**: MS-62, P3GD512, **K**: AEK4



## DiaClon Rh-Subgroups + C<sup>w</sup> + K

The ID-Card **DiaClon Rh-Subgroups + C<sup>w</sup> + K** is designed for detection of the presence or absence of the C (RH2), C<sup>w</sup> (RH8), c (RH4), E (RH3), e (RH5) and K (KEL1) antigens on human red blood cells, for manual use as well as on instruments.

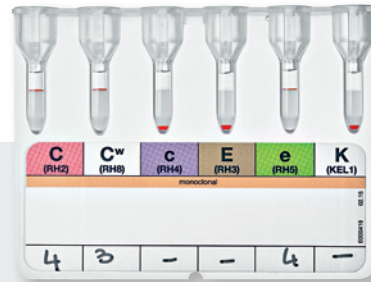
### Ordering Information

Catalog # Description

#### DiaClon Rh-Subgroups + C<sup>w</sup> + K

002134	C, C <sup>w</sup> , c, E, e, K (Id-n°: 52000)	<b>48 profiles</b> , 4 x 12
002137	C, C <sup>w</sup> , c, E, e, K (Id-n°: 52000)	<b>288 profiles</b> , 24 x 12
002136	C, C <sup>w</sup> , c, E, e, K (Id-n°: 52000)	<b>720 profiles</b> , 60 x 12
002135	C, C <sup>w</sup> , c, E, e, K (Id-n°: 52000)	<b>1,344 profiles</b> , 112 x 12

Cell lines: **C**: MS-273, P3x25513G8, **C<sup>w</sup>**: MS-110, **c**: 951, **E**: MS-80, MS-258, **e**: MS-62, P3GD512, **K**: AEK4



## Control Card A

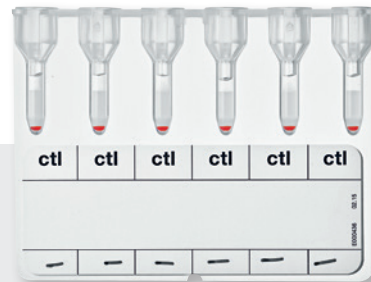
The ID-Card **Control Card A** is designed to validate the reactions obtained with the ID-Cards **DiaClon Rh-Subgroups + C<sup>w</sup> + K** and **DiaClon Anti-C<sup>w</sup>**.

### Ordering Information

Catalog # Description

#### Control Card A

001711	6 x ctl (Id-n°: 52020)	<b>72 tests</b> , 1 x 12
001714	6 x ctl (Id-n°: 52020)	<b>288 tests</b> , 4 x 12



## RhD + Phenotype

This ID-Card offers a complete profile of the Rh phenotype and may detect the presence of the variant D VI.

### Ordering Information

Catalog # Description

#### RhD + Phenotype

002024	C, c, D, E, e, ctl (Id-n°: 50130) human	<b>48 profiles</b> , 4 x 12
002027	C, c, D, E, e, ctl (Id-n°: 50130) human	<b>288 profiles</b> , 24 x 12
002026	C, c, D, E, e, ctl (Id-n°: 50130) human	<b>720 profiles</b> , 60 x 12
002025	C, c, D, E, e, ctl (Id-n°: 50130) human	<b>1,344 profiles</b> , 112 x 12



## A Subgroups

The reagent **Anti-A<sub>1</sub> Absorbed** agglutinates A<sub>1</sub> cells but reacts negatively or only weakly with A<sub>2</sub> cells.

Approximately 80% of group A or AB individuals have red cells that are agglutinated by anti-A1 and are thus classified as A<sub>1</sub> or A<sub>1</sub>B.

### Anti-A<sub>1</sub> Absorbed

ID-Card with 6 microtubes containing anti-A<sub>1</sub>, human, within the gel matrix.

#### Ordering Information

Catalog #	Description
<b>Anti-A<sub>1</sub> Absorbed</b> 001811	<b>6 x A<sub>1</sub></b> (Id-n°: 50140) human <b>72 tests</b> , 1 x 12



The H antigen is present on all human red cells, except those with the phenotype O<sup>h</sup> (Bombay blood group). H is the precursor substance for A and B antigens.

For the classification of A subgroup status, anti-H should be used in conjunction with anti-A, anti-AB and anti-A<sub>1</sub>.

### DiaClon Anti-H

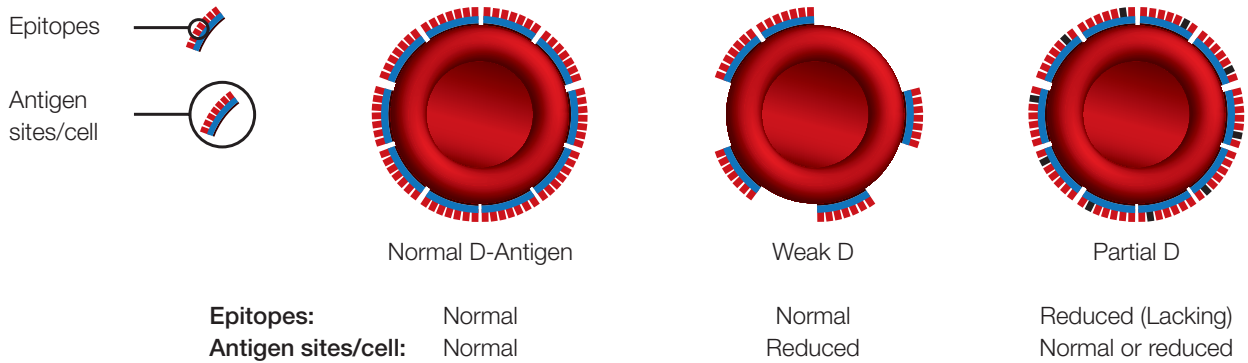
ID-Card with 6 microtubes containing anti-H, monoclonal, within the gel matrix.

#### Ordering Information

Catalog #	Description
<b>DiaClon Anti-H</b> 001911	<b>6 x H</b> (Id-n°: 50150) <b>72 tests</b> , 1 x 12

Cell lines: H-86-50+H89/8





## ID-Partial RhD Typing Set

### For the Typing of Partial RhD

The **ID-Partial RhD Typing Set** consists of 6 monoclonal anti-D which can aid in the further characterization of the RhD antigen after routine RhD typing.



#### Ordering Information

Catalog # Description

#### ID-Partial RhD Typing Set

001451 **Test Kit ID-Partial RhD Typing Set** (Id-n°: 46170), **12 tests**  
**ID-Cards, 1 x 12**  
**ID-Anti-D 1-6, 6 x 0.4 ml**

Cell lines: LHM76/55, LHM77/64, LHM70/45, LHM59/19, LHM169/80, LDM1

### Interpretation Table

Cell line	Anti-D	DII	DIII	DIVa	DIVb	DV	DVI	DVII	DFR	DBT	DHAR
LHM76/55 (IgG)	1	+	+	-	-	+	+	+	+	-	-
LHM77/64 (IgG)	2	-	+	-	-	+	+	+	+	-	-
LHM70/45 (IgG)	3	+	+	-	-	-	-	+	-	-	-
LHM59/19 (IgG)	4	+	+	+	+	+	-	+ _*	-	+	-
LHM169/80 (IgG)	5	+	+	+	+	+	-	+	+	-	-
LDM1 (IgM)	6	+	+	+	+	+ -	-	+	-	+	+ -

\* A weaker reaction can be observed with this antibody, in comparison with the other 5 sera.

## Extended Partial RhD Typing Set

The set enables the characterization of many known partial D phenotypes and offers an extended repertoire, plus facilitating the differentiation of weak D types from partial D's. The set is for use with ID-Cards containing anti-IgG.



### Ordering Information

Catalog # Description

#### Extended Partial RhD Typing Set

001461 ID-Anti-D 1-12 (Id-n°: 46130) **16 tests**, 12 x 0.4 ml

To be used with: ID-Card **Coombs Anti-IgG** (Id-n°: 50540)

Cell lines: LHM76/58, LHM76/59, LHM174/102, LHM50/2B, LHM169/81, ESD1, LHM76/55, LHM77/64, LHM70/45, LHM59/19, LHM169/80, LHM57/17

### Interpretation Table

Anti-D ALBAclone®	Nr.	DII/DNU	DIII	DIV (1)	DV (2)	DCS	DVI	DVII	DOL	DFR	DAR (3, 5)	DAR-E (3)	DHK/ DAU-4 (4)	DBT	DHAR	Weak D (5, 6)
LHM76/58	1	+	+	+	+	+	-	+	+	+	+	-	-	-	weak/ -	+
LHM76/59	2	+	+	-	+	+	+	+	+	+	+	+	+	-	-	+
LHM174/102	3	+	+	+	+	+	-	+	-	-	-	-	-	-	-	+
LHM50/2B	4	+	+	+	+	+	-	+	+	+	+	+	+	-	-	+
LHM169/81	5	+	+	-	+	+	-	+	+	+	-	-	-	-	-	+
ESD1	6	+	+	-	+	+	+	+	+	+	+	+	+	-	-	+
LHM76/55	7	+	+	-	+	+	+	+	+	+	+	+	+	-	-	+
LHM77/64	8	-	+	-	+	+	+	+	+	+	+	+	+	-	-	+
LHM70/45	9	+	+	-	-	-	-	+	-	-	-	-	-	-	-	weak/ -
LHM59/19	10	+	+	+	+	+	-	-	-	-	-	+	+	+	-	+
LHM169/80	11	+	+	+	+	+	-	+	+	+	+	+	-	-	-	+
LHM57/17	12	+	+	+	+	-	-	+	+	-	+	-	-	+	-	+

ALBAclone® is a trademark of Alba Bioscience Limited.  
Please consult the manufacturer for specific information.

## ID-DiaClon Anti-D

### For the confirmation of weak D by IAT

The increasing use of monoclonal anti-D from different cell lines can create problems in the interpretation of D antigen testing, in particular the differentiation of weak D and partial D.

**ID-DiaClon Anti-D** for confirmation of weak D by IAT containing monoclonal IgG anti-D supplied as a ready-to-use reagent in vials of 5 ml.

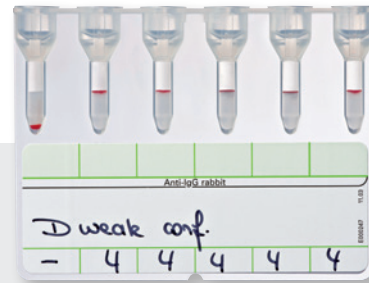


#### Ordering Information

Catalog #	Description
<b>ID-DiaClon Anti-D</b>	
007531	(Id-n°: 09410) ESD1 <b>100 tests</b> , 1 x 5 ml

## Coombs Anti-IgG

ID-Card **Coombs Anti-IgG** with 6 microtubes containing anti-human globulin anti-IgG (rabbit), within the gel matrix.



#### Ordering Information

Catalog #	Description
<b>Coombs Anti-IgG</b>	
004024	<b>6 x AHG (Anti-IgG)</b> (Id-n°: 50540) rabbit <b>288 tests</b> , 4 x 12
004027	<b>6 x AHG (Anti-IgG)</b> (Id-n°: 50540) rabbit <b>1,728 tests</b> , 24 x 12
004026	<b>6 x AHG (Anti-IgG)</b> (Id-n°: 50540) rabbit <b>4,320 tests</b> , 60 x 12
004025	<b>6 x AHG (Anti-IgG)</b> (Id-n°: 50540) rabbit <b>8,064 tests</b> , 112 x 12

## LISS/Coombs



#### Ordering Information

Catalog #	Description
<b>LISS/Coombs</b>	
004014	<b>6 x AHG (Anti-IgG + C3d) tests</b> (Id-n°: 50531) rabbit <b>288 profiles</b> , 4 x 12
004017	<b>6 x AHG (Anti-IgG + C3d) tests</b> (Id-n°: 50531) rabbit <b>1,728 profiles</b> , 24 x 12
004016	<b>6 x AHG (Anti-IgG + C3d) tests</b> (Id-n°: 50531) rabbit <b>4,320 profiles</b> , 60 x 12
004015	<b>6 x AHG (Anti-IgG + C3d) tests</b> (Id-n°: 50531) rabbit <b>8,064 profiles</b> , 112 x 12

**C3d:** cell line C139-9

## Antigen Profiles

ABO and RhD compatible blood is used for transfusion. In certain cases, Rh phenotypes and the status of the Kell-System are also taken into account. Other blood group antigens are generally not considered. However, when a

clinically significant antibody is present, appropriate antigen negative blood should be used. For such cases, the rapid availability of fully typed donor blood is of great advantage. The ID-System facilitates complete antigen profiling.

### ID-Antigen Profile I

In the ID-Card **ID-Antigen Profile I**, the gel suspensions contain the corresponding antibodies, requiring only the addition of the red cell suspension (in ID-Diluent 1).

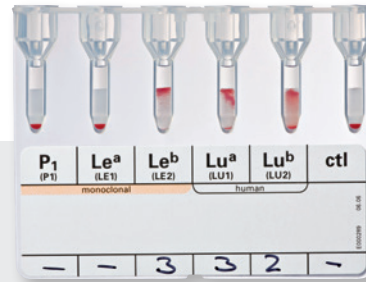
#### Ordering Information

Catalog # Description

##### ID-Antigen Profile I

008510 **P<sub>1</sub>, Le<sup>a</sup>, Le<sup>b</sup>, Lu<sup>a</sup>, Lu<sup>b</sup>, ctl** (Id-n<sup>o</sup>: 50372) **12 profiles**, 1 x 12

Cell lines: **P<sub>1</sub>**: 650, **Le<sup>a</sup>**: P3N20V3 + LM112/161, **Le<sup>b</sup>**: LM129/181  
Lu<sup>a</sup>/Lu<sup>b</sup> human antibodies



### ID-Antigen Profile II

In the ID-Card **ID-Antigen Profile II**, the gel suspensions contain the corresponding antibodies, requiring only the addition of the red cell suspension (in ID-Diluent 1).

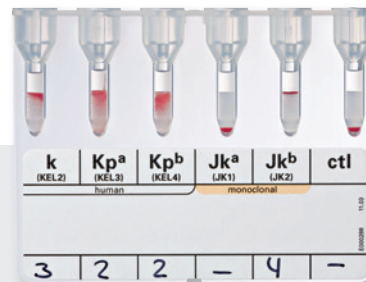
#### Ordering Information

Catalog # Description

##### ID-Antigen Profile II

008610 **k, Kp<sup>a</sup>, Kp<sup>b</sup>, Jk<sup>a</sup>, Jk<sup>b</sup>, ctl** (Id-n<sup>o</sup>: 50380) **12 profiles**, 1 x 12

Cell lines: **Jk<sup>a</sup>**: MS-15, **Jk<sup>b</sup>**: MS-8  
k/Kp<sup>a</sup>/Kp<sup>b</sup> human antibodies





## ID-Antigen Profile III

In the ID-Card **ID-Antigen Profile III**, the first 2 microtubes contain *neutral* gel and the last 4, gel with polyspecific anti-human globulin (AHG): the corresponding antibodies (ID-test sera, specially adapted for the **ID-System**) are added after the red cell suspension (in ID-Diluent 2).



### Ordering Information

Catalog #      Description

#### ID-Antigen Profile III

008701      **ID-Card: M, N, S, s, Fy<sup>a</sup>, Fy<sup>b</sup>** (Id-n°: 50390) **12 profiles**, 1 x 12  
 008711      **Test sera ID-M, N, S, s, Fy<sup>a</sup>, Fy<sup>b</sup>** (Id-n°: 45140) **24 profiles**, 6 x 1.4 ml  
 008712      **Test sera ID-M, N, S, s, Fy<sup>a</sup>, Fy<sup>b</sup>** (Id-n°: 45460) **90 profiles**, 6 x 5 ml\*

M/N monoclonal antibodies

Cell lines: **M**: LM110/140 (LM-1), **N**: 1422 C7

S/s/Fy<sup>a</sup>/Fy<sup>b</sup> human antibodies

\* *Ideal for automation*

## DiaClon Anti-DVI neg.

ID-Card **DiaClon Anti-DVI neg.** with 6 microtubes containing a blend of monoclonal anti-D within the gel matrix. It is especially useful for confirmation of RhD determination, verification of negative reactions or when doubtful results with other methods (such as microplates, automated procedures) have been observed.



### Ordering Information

Catalog # Description

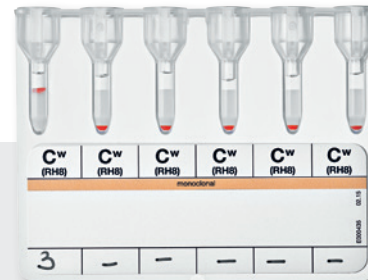
#### DiaClon Anti-DVI neg.

001251 6 x DVI neg. (Id-n°: 50171) **72 tests**, 1 x 12  
 001252 6 x DVI neg. (Id-n°: 50171) **1,728 tests**, 24 x 12

Cell lines: TH-28, MS-26, 175-2

## DiaClon Anti-C<sup>w</sup>

The ID-Card **DiaClon Anti-C<sup>w</sup>** is designed for the detection of the presence or absence of the C<sup>w</sup> antigen (RH8) on human red blood cells, for manual use as well as on instruments.



### Ordering Information

Catalog # Description

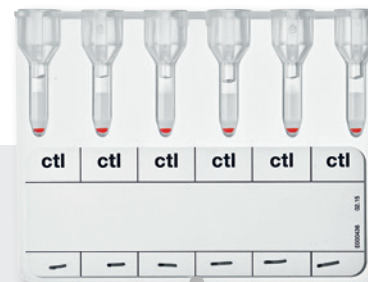
#### DiaClon Anti-C<sup>w</sup>

001321 6 x C<sup>w</sup> (Id-n°: 52010) **72 tests**, 1 x 12

Cell line: MS-110

## Control Card A

The ID-Card **Control Card A** is designed to validate the reactions obtained with the ID-Cards **DiaClon Anti-C<sup>w</sup>** and **DiaClon Rh-Subgroups + C<sup>w</sup> + K**.



### Ordering Information

Catalog # Description

#### Control Card A

001711 6 x ctl (Id-n°: 52020) **72 tests**, 1 x 12  
 001714 6 x ctl (Id-n°: 52020) **288 tests**, 4 x 12

The KEL (Kell) system (ISBT, number 006) is currently known to contain 35 antigens, numbered K1 to K38 (K8, K9 and K15 are now obsolete). According to Reid, M.E. [5], the phenotype frequencies of the antithetical antigens K (KEL1) and k (KEL2) in the Caucasian population are as follows:

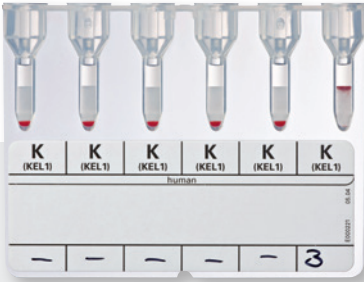
KK	0.2%
Kk	8.8%
kk	91%

The antibodies of the Kell system have been associated with transfusion reactions and hemolytic disease of the newborn (HDN). The clinical importance of anti-K has resulted in the systematic determination of the K and Cellano antigens in both donors and patients. The ID-Cards **Anti-K** and **Anti-k** can be used to determine the antigen status of donor blood prior to crossmatching, for confirmation of the antigen after antibody identification, or for paternal/fetal antigen typing in allo-immunized pregnancies.

# Anti-K

**Ordering Information**

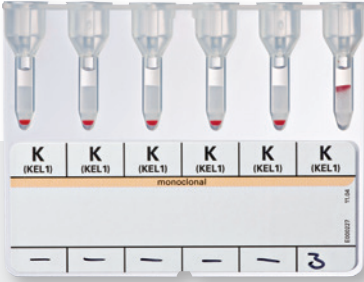
Catalog #	Description
<b>Anti-K</b> 002111	6 x K (Id-n°: 50190) human <b>72 tests</b> , 1 x 12



# DiaClon Anti-K

**Ordering Information**

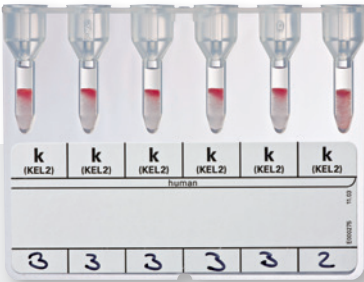
Catalog #	Description
<b>DiaClon Anti-K</b> 002121	6 x K (Id-n°: 50200) <b>72 tests</b> , 1 x 12
Cell line: MS-56	



# Anti-k

**Ordering Information**

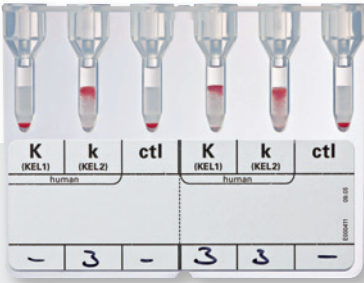
Catalog #	Description
<b>Anti-k</b> 007251	6 x k (Id-n°: 50260) human <b>72 tests</b> , 1 x 12



# Anti-K/k

**Ordering Information**

Catalog #	Description
<b>Anti-K/k</b> 006021	K, k, ctl/K, k, ctl (Id-n°: 51220) human <b>24 tests</b> , 1 x 12



## Single Antigen Testing

M (MNS1) and N (MNS2) antigenic determinants are carried on glycoprotein A (GPA), one of the major sialic acid containing structure of the red cell membrane. According to Reid, M.E. [5], the phenotype frequencies of the MN system in the Caucasian population are as follows:

MM	28%
MN	50%
NN	22%

## DiaClon Anti-M

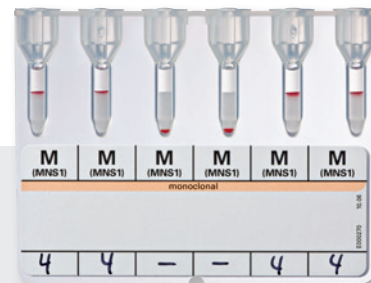
### Ordering Information

Catalog # Description

#### DiaClon Anti-M

007011 6 x M (Id-n°: 50212) 72 tests, 1 x 12

Cell lines: 9211 9D5 1G10



## DiaClon Anti-N

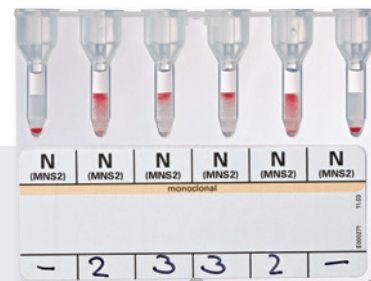
### Ordering Information

Catalog # Description

#### DiaClon Anti-N

007111 6 x N (Id-n°: 50221) 72 tests, 1 x 12

Cell lines: 1422 C7+MN879



## DiaClon Anti-M/N

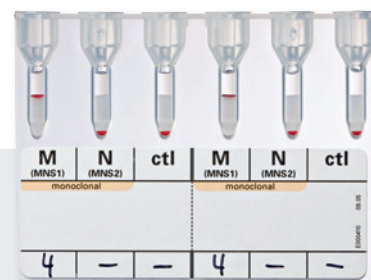
### Ordering Information

Catalog # Description

#### DiaClon Anti-M/N

006011 M, N, ctl/M, N, ctl (Id-n°: 51210) 24 tests, 1 x 12

Cell lines: **M**: 9211 9D5 1G10, **N**: 1422 C7+MN879



According to Reid, M.E. [5], the phenotype frequencies in the Caucasian population are:

Phenotype	Antigens	Frequency
P <sub>1</sub>	PP <sup>1</sup> P <sup>k</sup>	79%
P <sub>2</sub>	PP <sup>k</sup>	21%
p	-	very rare
P <sub>1</sub> <sup>k</sup>	P <sup>1</sup> P <sup>k</sup>	very rare
P <sub>2</sub> <sup>k</sup>	P <sup>k</sup>	very rare

## DiaClon Anti-P<sub>1</sub>

### Ordering Information

Catalog #      Description  
**DiaClon Anti-P<sub>1</sub>**  
 007212      6 x P<sub>1</sub> (Id-nº: 51180) **72 tests**, 1 x 12  
 Cell line: 650



## Single Antigen Testing

Lewis antigens are absent or only poorly expressed on red cells from newborns. According to Reid, M.E. [5], the Lewis phenotype frequency in the Caucasian population is as follows:

Le(a-b+)	72%
Le(a+b-)	22%
Le(a-b-)	6%
Le(a+b+)	very rare*

\* more common in East Asia, South East Asia, the Pacific region and Australia

### DiaClon Anti-Le<sup>a</sup>

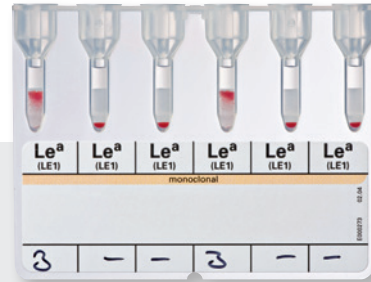
#### Ordering Information

Catalog # Description

#### DiaClon Anti-Le<sup>a</sup>

007221 6 x Le<sup>a</sup> (Id-n°: 50242) 72 tests, 1 x 12

Cell lines: P3N20V3 + LM112/161



### DiaClon Anti-Le<sup>b</sup>

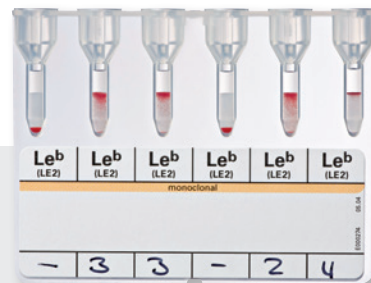
#### Ordering Information

Catalog # Description

#### DiaClon Anti-Le<sup>b</sup>

007231 6 x Le<sup>b</sup> (Id-n°: 50250) 72 tests, 1 x 12

Cell lines: LM129/181 (LB1)



### DiaClon Anti-Le<sup>a</sup>/Le<sup>b</sup>

#### Ordering Information

Catalog # Description

#### DiaClon Anti-Le<sup>a</sup>/Le<sup>b</sup>

006041 Le<sup>a</sup>, Le<sup>b</sup>, ctl/Le<sup>a</sup>, Le<sup>b</sup>, ctl (Id-n°: 51241) 24 tests, 1 x 12

Cell lines: Le<sup>a</sup>: P3N20V3 + LM112/161, Le<sup>b</sup>: LM129/181 (LB1)



The antibodies of the Kidd system are often associated with severe hemolytic transfusion reactions (HTRs), notably delayed reactions. The transfusion of compatible blood in the Kidd system, where antibodies have previously been detected (or are suspected), is therefore important.

According to Reid, M.E. [5], the phenotype frequency of the antithetical Kidd antigens Jk<sup>a</sup> and Jk<sup>b</sup> in the Caucasian population is as follows:

Jk(a+b-)	26%
Jk(a+b+)	50%
Jk(a-b+)	24%
Jk(a-b-)	exceedingly rare

## DiaClon Anti-Jk<sup>a</sup>

### Ordering Information

Catalog # Description  
**DiaClon Anti-Jk<sup>a</sup>**  
 007321 6 x Jk<sup>a</sup> (Id-n°: 50270) 72 tests, 1 x 12

Cell line: MS-15



## DiaClon Anti-Jk<sup>b</sup>

### Ordering Information

Catalog # Description  
**DiaClon Anti-Jk<sup>b</sup>**  
 007331 6 x Jk<sup>b</sup> (Id-n°: 50280) 72 tests, 1 x 12

Cell line: MS-8



## DiaClon Anti-Jk<sup>a</sup>/Jk<sup>b</sup>

### Ordering Information

Catalog # Description  
**DiaClon Anti-Jk<sup>a</sup>/Jk<sup>b</sup>**  
 006051 Jk<sup>a</sup>, Jk<sup>b</sup>, ctl/Jk<sup>a</sup>, Jk<sup>b</sup>, ctl (Id-n°: 51250) 24 tests, 1 x 12

Cell lines: Jk<sup>a</sup>: MS-15, Jk<sup>b</sup>: MS-8



## Single Antigen Testing

Kp<sup>a</sup> (KEL3), Kp<sup>b</sup> (KEL4) and Kp<sup>c</sup> (KEL21) are part of the Kell system (ISBT, number 006). Kp<sup>a</sup> is present in approximately 2% of the Caucasian population while Kp<sup>b</sup> is a high frequency (public) antigen. The Kp<sup>c</sup> antigen has an occurrence of less than 0.01% but up to 0.32% in Japanese.

Anti-Kp<sup>a</sup> and anti-Kp<sup>b</sup> are less common than anti-K but have similar serological characteristics and are considered to be clinically significant. They may occur after transfusion or by fetomaternal immunization.

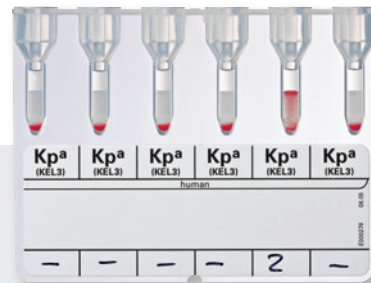
According to Reid, M.E. [5], the phenotype frequency in the Caucasian population of the two most important antigens is as follows:

Kp(a+b-)	rare
Kp(a+b+)	± 2.3%
Kp(a-b+)	± 97.7%

### Anti-Kp<sup>a</sup>

#### Ordering Information

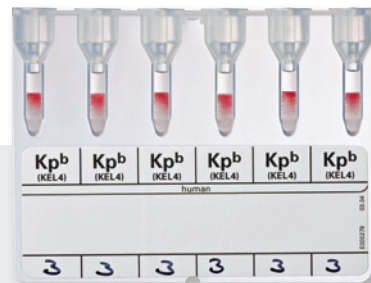
Catalog #	Description
<b>Anti-Kp<sup>a</sup></b> 007301	6 x Kp <sup>a</sup> (Id-n°: 50290) human <b>72 tests</b> , 1 x 12



### Anti-Kp<sup>b</sup>

#### Ordering Information

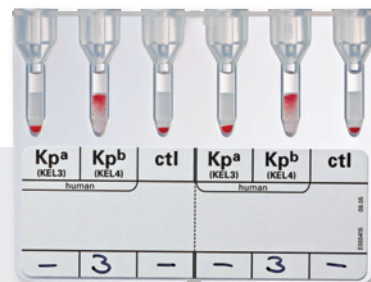
Catalog #	Description
<b>Anti-Kp<sup>b</sup></b> 007311	6 x Kp <sup>b</sup> (Id-n°: 50300) human <b>72 tests</b> , 1 x 12



### Anti-Kp<sup>a</sup>/Kp<sup>b</sup>

#### Ordering Information

Catalog #	Description
<b>Anti-Kp<sup>a</sup>/Kp<sup>b</sup></b> 006061	Kp <sup>a</sup> , Kp <sup>b</sup> , ctl/Kp <sup>a</sup> , Kp <sup>b</sup> , ctl (Id-n°: 51260) human <b>24 tests</b> , 1 x 12





Antibodies against antigens in the Lutheran system are not often encountered.

The antigen-antibody reaction produces small and loose agglutinates in a characteristic *mixed-field* appearance.

The antigens are poorly developed at birth.

Allo anti-Lu<sup>a</sup> has not been implicated in transfusion reactions and only rarely as causing mild hemolytic disease of the fetus and newborn (HDFN). Allo anti-Lu<sup>b</sup> has been implicated in mild to moderate transfusion reactions and mild HDFN.

According to Reid, M.E. [5], the phenotype frequency of the Lutheran system in most population is as follows:

Lu(a+b-)	0.2%
Lu(a+b+)	7.4%
Lu(a-b+)	92.4%
Lu(a-b-)	rare

### Anti-Lu<sup>a</sup>

**Ordering Information**

Catalog # Description  
**Anti-Lu<sup>a</sup>**  
 007351 6 x Lu<sup>a</sup> (Id-n°: 50310) human **72 tests**, 1 x 12



### Anti-Lu<sup>b</sup>

**Ordering Information**

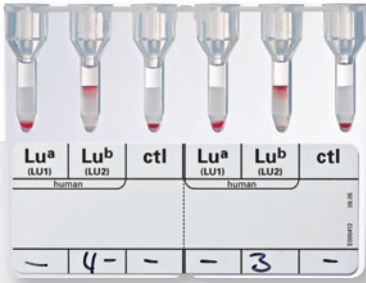
Catalog # Description  
**Anti-Lu<sup>b</sup>**  
 007361 6 x Lu<sup>b</sup> (Id-n°: 50320) human **72 tests**, 1 x 12



### Anti-Lu<sup>a</sup>/Lu<sup>b</sup>

**Ordering Information**

Catalog # Description  
**Anti-Lu<sup>a</sup>/Lu<sup>b</sup>**  
 006031 Lu<sup>a</sup>, Lu<sup>b</sup>, ctl/Lu<sup>a</sup>, Lu<sup>b</sup>, ctl (Id-n°: 51230) human **24 tests**, 1 x 12



## Single Antigen Testing

The antigens S (MNS3) and s (MNS4) are carried on the human glycoprotein B (GPB) molecule and are part of the MNS system. Ss antibodies are not frequently encountered, however they have both been implicated in rare cases of severe hemolytic disease of the newborn and rare cases of mild to moderate hemolytic transfusion reactions, and are therefore clinically important.

Antigen typing of paternal or fetal/neonatal or donor bloods may therefore also be appropriate, according to the clinical situation.

According to Daniels, G. [4], the phenotype frequency of the antithetical antigens S and s in the Caucasian population is as follows:

SS	11%
Ss	44%
ss	45%

### Test of Antigen S ID-Card S, Test Serum ID-Anti-S

#### Ordering Information

Catalog # Description

#### ID-Card S, ID-Anti-S

007130 ID-Card S: 6 x S (Id-n°: 50330) **72 tests**, 1 x 12  
 007131 Test serum ID-Anti-S: (Id-n°: 09010) human **72 tests**, 1 x 3.6 ml  
 007132 Test serum ID-Anti-S: (Id-n°: 09010) human **90 tests**, 1 x 5 ml\*

\* Ideal for automation



### Test of Antigen s ID-Card s, Test Serum ID-Anti-s

#### Ordering Information

Catalog # Description

#### ID-Card s, ID-Anti-s

007140 ID-Card s: 6 x s (Id-n°: 50340) **72 tests**, 1 x 12  
 007141 Test serum ID-Anti-s: (Id-n°: 09110) human **72 tests**, 1 x 3.6 ml  
 007142 Test serum ID-Anti-s: (Id-n°: 09110) human **90 tests**, 1 x 5 ml\*

\* Ideal for automation



### Test of Antigen S and s ID-Card S/s, Test Serum ID-Anti-S/s

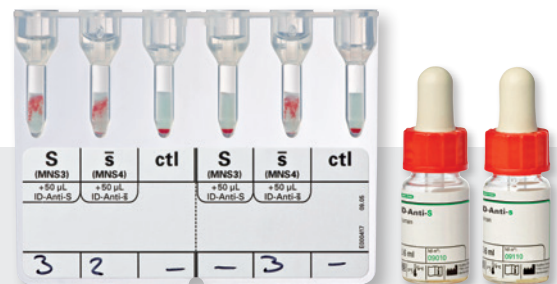
#### Ordering Information

Catalog # Description

#### ID-Card S/s, ID-Anti-S/s

006120 ID-Card S/s: S, s, ctl/S, s, ctl (Id-n°: 51280) **24 tests**, 1 x 12  
 006121 Test serum ID-Anti-S/s: (Id-n°: 46190) human **28 tests**, 2 x 1.4 ml  
 007132 Test serum ID-Anti-S: (Id-n°: 09010) human **90 tests**, 1 x 5 ml\*  
 007142 Test serum ID-Anti-s: (Id-n°: 09110) human **90 tests**, 1 x 5 ml\*

\* Ideal for automation



Both Duffy antigens are fully developed at birth. Fy<sup>a</sup> frequently causes immunization while Fy<sup>b</sup> is rarely the cause of immunization. Anti-Fy<sup>a</sup> and anti-Fy<sup>b</sup> are practically always of immune origin.

They both cause hemolytic transfusion reactions and can, although not frequently, cause hemolytic disease of the newborn (HDN).

According to Reid, M.E. [5], the phenotype frequency of the Duffy blood groups is as follows:

	Caucasian	Blacks	Chinese	Japanese	Thai
Fy(a+b-)	17%	9%	90.80%	81.50%	69%
Fy(a-b+)	34%	22%	0.30%	0.90%	3%
Fy(a+b+)	49%	1%	8.90%	17.60%	28%
Fy(a-b-)	very rare	68%	0%	0%	0%

### Test of Antigen Fy<sup>a</sup> ID-Card Fy<sup>a</sup>, Test Serum ID-Anti-Fy<sup>a</sup>

**Ordering Information**

Catalog #	Description
<b>ID-Card Fy<sup>a</sup>, ID-Anti-Fy<sup>a</sup></b>	
007270	ID-Card Fy <sup>a</sup> : 6 x Fy <sup>a</sup> (Id-n°: 50350) <b>72 tests</b> , 1 x 12
007271	Test serum ID-Anti-Fy <sup>a</sup> : (Id-n°: 09210) human <b>72 tests</b> , 1 x 3.6 ml
007272	Test serum ID-Anti-Fy <sup>a</sup> : (Id-n°: 09210) human <b>90 tests</b> , 1 x 5 ml*

\* Ideal for automation



### Test of Antigen Fy<sup>b</sup> ID-Card Fy<sup>b</sup>, Test Serum ID-Anti-Fy<sup>b</sup>

**Ordering Information**

Catalog #	Description
<b>ID-Card Fy<sup>b</sup>, ID-Anti-Fy<sup>b</sup></b>	
007280	ID-Card Fy <sup>b</sup> : 6 x Fy <sup>b</sup> (Id-n°: 50360) <b>72 tests</b> , 1 x 12
007281	Test serum ID-Anti-Fy <sup>b</sup> : (Id-n°: 09310) human <b>72 tests</b> , 1 x 3.6 ml
007282	Test serum ID-Anti-Fy <sup>b</sup> : (Id-n°: 09310) human <b>90 tests</b> , 1 x 5 ml*

\* Ideal for automation



### Test of Antigen Fy<sup>a</sup> and Fy<sup>b</sup>, ID-Card Fy<sup>a</sup>/Fy<sup>b</sup>, Test Serum ID-Anti-Fy<sup>a</sup>/Fy<sup>b</sup>



#### Ordering Information

Catalog # Description

##### ID-Card Fy<sup>a</sup>/Fy<sup>b</sup>, ID-Anti-Fy<sup>a</sup>/Fy<sup>b</sup>

006110 ID-Card Fy<sup>a</sup>/Fy<sup>b</sup>: Fy<sup>a</sup>, Fy<sup>b</sup>, ctl/Fy<sup>a</sup>, Fy<sup>b</sup>, ctl (Id-n°: 51270) **24 tests**, 1 x 12  
 006111 Test serum ID-Anti-Fy<sup>a</sup>/Fy<sup>b</sup>: (Id-n°: 46180) human **28 tests**, 2 x 1.4 ml  
 007272 Test serum ID-Anti-Fy<sup>a</sup>: (Id-n°: 09210) human **90 tests**, 1 x 5 ml\*  
 007282 Test serum ID-Anti-Fy<sup>b</sup>: (Id-n°: 09310) human **90 tests**, 1 x 5 ml\*

\* Ideal for automation

The i antigen, strongly present on fetal red blood cells, slowly disappears during the first 2 years of life developing mostly into I activity. Anti-i are considered to be autoantibodies and may cause Cold Agglutinin Disease (CAD).

Rare antisera (human, lyophilized) for use with the ID-Card NaCl, Enzyme Test and Cold Agglutinins.

## ID-Anti-I

#### Ordering Information

Catalog # Description

##### ID-Anti-I

007371 ID-Anti-I: vial (Id-n°: 08830) **10 tests**, 1 x 0.5 ml

According to availability



## ID-Anti-i

#### Ordering Information

Catalog # Description

##### ID-Anti-i

007380 ID-Anti-i: vial (Id-n°: 08880) **10 tests**, 1 x 0.5 ml

According to availability



When an alloantibody specificity is suspected or defined in either a donor or a patient’s blood sample, the red cells should be tested with an appropriate antiserum to confirm lack of the corresponding antigen. Specific antigen negative blood may be required for crossmatching prior to transfusion to a recipient with a known alloantibody.

Typing of paternal or fetal/neonatal antigens on red cells can also be an important procedure in assessing and monitoring risk in an allo-immunized pregnancy. Bio-Rad ID-Test sera for use by Indirect Antiglobulin Test (IAT) with the ID-Card **LISS/Coombs** are human sera containing incomplete antibodies.

According to Reid, M.E. [5], the phenotype frequency of these rare antigens are as follows:

High frequency			Low frequency	
Vel	99.96%		Co <sup>b</sup>	10%
U	99.90%	Whites	V <sup>w</sup>	< 0.06%
	99.00%	Blacks	Wr <sup>a</sup>	< 0.01%
Xg <sup>a</sup>	66.00%	Male	Js <sup>a</sup>	< 0.01%
	89.00%	Female	Di <sup>a</sup>	0.01 to 54% (South America Indians)
Js <sup>b</sup>	100.00%	Whites		
	99.00%	Blacks		

Rare antisera (human, lyophilized) for use with the ID-Card **LISS/Coombs**.

## ID-Anti-Co<sup>b</sup>

### Ordering Information

Catalog #	Description
<b>ID-Anti-Co<sup>b</sup></b> 007440	<b>ID-Anti-Co<sup>b</sup>: vial</b> (Id-n°: 08900) <b>10 tests</b> , 1 x 0.5 ml

*According to availability*



## ID-Anti-Js<sup>a</sup>

### Ordering Information

Catalog #	Description
<b>ID-Anti-Js<sup>a</sup></b> 007400	<b>ID-Anti-Js<sup>a</sup>: vial</b> (Id-n°: 08840) <b>10 tests</b> , 1 x 0.5 ml

*According to availability*



### ID-Anti-Js<sup>b</sup>

#### Ordering Information

Catalog # Description

**ID-Anti-Js<sup>b</sup>**

007390 ID-Anti-Js<sup>b</sup>: vial (Id-n°: 08860) **10 tests**, 1 x 0.5 ml

*According to availability*



### ID-Anti-Wr<sup>a</sup>

#### Ordering Information

Catalog # Description

**ID-Anti-Wr<sup>a</sup>**

007410 ID-Anti-Wr<sup>a</sup>: vial (Id-n°: 09060) **10 tests**, 1 x 0.5 ml

*According to availability*



### ID-Anti-Di<sup>a</sup>

#### Ordering Information

Catalog # Description

**ID-Anti-Di<sup>a</sup>**

007420 ID-Anti-Di<sup>a</sup>: vial (Id-n°: 09080) **10 tests**, 1 x 0.5 ml

*According to availability*



### ID-Anti-Vel

#### Ordering Information

Catalog # Description

**ID-Anti-Vel**

007430 ID-Anti-Vel: vial (Id-n°: 09140) **10 tests**, 1 x 0.5 ml

*According to availability*



## ID-Anti-V<sup>w</sup>

### Ordering Information

Catalog # Description

**ID-Anti-V<sup>w</sup>**  
007450 ID-Anti-V<sup>w</sup>: vial (ld-n°: 08940) **10 tests**, 1 x 0.5 ml

*According to availability*



## ID-Anti-Xg<sup>a</sup>

### Ordering Information

Catalog # Description

**ID-Anti-Xg<sup>a</sup>**  
007460 ID-Anti-Xg<sup>a</sup>: vial (ld-n°: 08960) **10 tests**, 1 x 0.5 ml

*According to availability*



## ID-Anti-U

### Ordering Information

Catalog # Description

**ID-Anti-U**  
007470 ID-Anti-U: vial (ld-n°: 08980) **10 tests**, 1 x 0.5 ml

*According to availability*



## ID-Anti-Tj<sup>a</sup>

### With the ID-Card Coombs Anti-IgG

The antibody anti-PP1P<sup>k</sup>, previously known as anti-Tj<sup>a</sup> is in fact a mixture of anti-P + P1 + P<sup>k</sup>. Cells which fail to react with this antibody are more correctly described as having the p phenotype. This phenotype is very rare in most parts of the world though a little more common in Japan and Sweden. It can be important as individuals with the p phenotype develop

a naturally occurring anti-PP1P<sup>k</sup>, which has been implicated in both severe transfusion reactions and hemolytic disease of the newborn, although rare. Antibodies directed against P and/or P<sup>k</sup> antigens are associated with a high rate of spontaneous abortion.

### Ordering Information

Catalog # Description

**ID-Anti-Tj<sup>a</sup>**  
007490 ID-Anti-Tj<sup>a</sup>: vial (ld-n°: 09040) **10 tests**, 1 x 0.5 ml

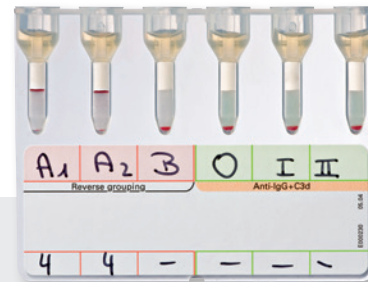
*According to availability*



## Reverse Grouping with Antibody Screening

The ID-Card **Reverse Grouping with Antibody Screening** is used with the test cell reagents **ID-DiaCell ABO/I-II** or **ID-DiaCell ABO/I-II-III**, allowing reverse grouping and antibody screening (Indirect Antiglobulin Test at room temperature) in an easy single test procedure. It provides following combinations of test profiles, according to individual needs: **A<sub>1</sub>-A<sub>2</sub>-B-O/I-II**, **A<sub>1</sub>-A<sub>2</sub>-B/I-II-III**, **A<sub>1</sub>-A<sub>2</sub>-B/Ac-I-II** or **A<sub>1</sub>-A<sub>2</sub>-B/DAT-I-II**.

*(please check your local/national guidelines before using these products for conformity)*



### Ordering Information

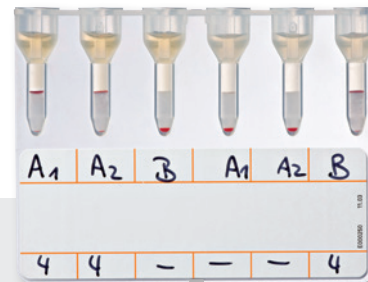
Catalog # Description

#### Reverse Grouping with Antibody Screening

003014	A <sub>1</sub> , A <sub>2</sub> , B, O/I, II or A <sub>1</sub> , A <sub>2</sub> , B/I, II, III or A <sub>1</sub> , A <sub>2</sub> , B/I, II, AC (Id-n°: 50510)	<b>48 profiles</b> , 4 x 12
003017	A <sub>1</sub> , A <sub>2</sub> , B, O/I, II or A <sub>1</sub> , A <sub>2</sub> , B/I, II, III or A <sub>1</sub> , A <sub>2</sub> , B/I, II, AC (Id-n°: 50510)	<b>288 profiles</b> , 24 x 12
003016	A <sub>1</sub> , A <sub>2</sub> , B, O/I, II or A <sub>1</sub> , A <sub>2</sub> , B/I, II, III or A <sub>1</sub> , A <sub>2</sub> , B/I, II, AC (Id-n°: 50510)	<b>720 profiles</b> , 60 x 12
003015	A <sub>1</sub> , A <sub>2</sub> , B, O/I, II or A <sub>1</sub> , A <sub>2</sub> , B/I, II, III or A <sub>1</sub> , A <sub>2</sub> , B/I, II, AC (Id-n°: 50510)	<b>1,344 profiles</b> , 112 x 12

## NaCl, Enzyme Test and Cold Agglutinins

The ID-Card **NaCl, Enzyme Test and Cold Agglutinins** is suitable for antibody screening and identification procedures, compatibility testing and reverse grouping.



### Ordering Information

Catalog # Description

#### NaCl, Enzyme Test and Cold Agglutinins

005014	A <sub>1</sub> , A <sub>2</sub> , B/A <sub>1</sub> , A <sub>2</sub> , B or A <sub>1</sub> , B/A <sub>1</sub> , B/A <sub>1</sub> , B or IP, IIP, IIIP or IP, IIP, AC (Id-n°: 50520)	<b>96/144 profiles</b> , 4 x 12
005017	A <sub>1</sub> , A <sub>2</sub> , B/A <sub>1</sub> , A <sub>2</sub> , B or A <sub>1</sub> , B/A <sub>1</sub> , B/A <sub>1</sub> , B or IP, IIP, IIIP or IP, IIP, AC (Id-n°: 50520)	<b>576/864 profiles</b> , 24 x 12
005016	A <sub>1</sub> , A <sub>2</sub> , B/A <sub>1</sub> , A <sub>2</sub> , B or A <sub>1</sub> , B/A <sub>1</sub> , B/A <sub>1</sub> , B or IP, IIP, IIIP or IP, IIP, AC (Id-n°: 50520)	<b>1,440/2,160 profiles</b> , 60 x 12
005015	A <sub>1</sub> , A <sub>2</sub> , B/A <sub>1</sub> , A <sub>2</sub> , B or A <sub>1</sub> , B/A <sub>1</sub> , B/A <sub>1</sub> , B or IP, IIP, IIIP or IP, IIP, AC (Id-n°: 50520)	<b>2,688/4,032 profiles</b> , 112 x 12



## LISS/Coombs

The most important function of the polyspecific AHG reagent is to detect the presence of IgG. The importance of anti-complement in the AHG reagent is debatable since antibodies detectable only by their ability to bind complement are rather rare. However, anti-C3d activity is important for the DAT in the investigation of autoimmune hemolytic anemia (AIHA). A positive DAT generally indicates that the red cells are coated *in vivo* with immunoglobulin and/or complement.

### Ordering Information

Catalog # Description

#### LISS/Coombs

004014 6 x AHG (Anti-IgG + C3d) (Id-n°: 50531) rabbit **288 tests**, 4 x 12  
 004017 6 x AHG (Anti-IgG + C3d) (Id-n°: 50531) rabbit **1,728 tests**, 24 x 12  
 004016 6 x AHG (Anti-IgG + C3d) (Id-n°: 50531) rabbit **4,320 tests**, 60 x 12  
 004015 6 x AHG (Anti-IgG + C3d) (Id-n°: 50531) rabbit **8,064 tests**, 112 x 12

**C3d:** cell line C139-9



## Coombs Anti-IgG

Some users prefer to use anti-IgG AHG serum because there is no interference from complement components which may be non-specifically bound to the red cell.

### Ordering Information

Catalog # Description

#### Coombs Anti-IgG

004024 6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit **288 tests**, 4 x 12  
 004027 6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit **1,728 tests**, 24 x 12  
 004026 6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit **4,320 tests**, 60 x 12  
 004025 6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit **8,064 tests**, 112 x 12



## Direct Antiglobulin Test (DAT)

A positive Direct Antiglobulin Test (DAT) with polyspecific antihuman globulin (AHG) generally indicates that the red cells are coated *in vivo* with immunoglobulin and/or complement.

To differentiate the reaction, monospecific AHG reagents are used, such as anti-IgG, -IgA, -IgM, -C3c and -C3d.

## DC-Screening I

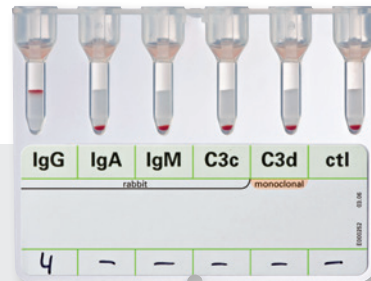
### Ordering Information

Catalog # Description

#### DC-Screening I

004851 **IgG, IgA, IgM, C3c, C3d, ctl** (Id-n°: 50830) **12 profiles**, 1 x 12  
 004857 **IgG, IgA, IgM, C3c, C3d, ctl** (Id-n°: 50830) **288 profiles**, 24 x 12  
 004856 **IgG, IgA, IgM, C3c, C3d, ctl** (Id-n°: 50830) **720 profiles**, 60 x 12

**IgG:** rabbit, **IgA:** rabbit, **IgM:** rabbit, **C3c:** rabbit, **C3d:** cell line C139-9



## DC-Screening II

### Ordering Information

Catalog # Description

#### DC-Screening II

004831 **IgG, C3d, ctl/IgG, C3d, ctl** (Id-n°: 50560) **24 profiles**, 1 x 12  
 004837 **IgG, C3d, ctl/IgG, C3d, ctl** (Id-n°: 50560) **576 profiles**, 24 x 12  
 004836 **IgG, C3d, ctl/IgG, C3d, ctl** (Id-n°: 50560) **1,440 profiles**, 60 x 12

**IgG:** rabbit, **C3d:** cell line C139-9



## DAT IgG-Dilution

The numbers of IgG molecules per cell influence the accelerated red cell destruction seen in Autoimmune Hemolytic Anemia (AIHA), Hemolytic Disease of the Newborn (HDN) and transfusion reactions.

The ID-Card **DAT IgG-Dilution** provides an indication of the clinical importance of the DAT positive result.

To further estimate the risk of hemolysis the differentiation of the IgG1 and IgG3 subclasses should be performed by using the ID-Card **DAT IgG1/IgG3**.



### Ordering Information

Catalog # Description

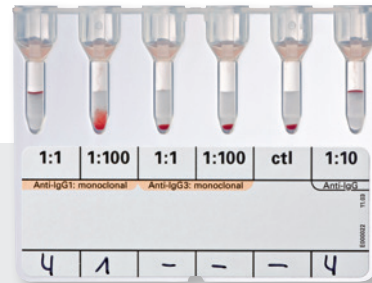
#### DAT IgG-Dilution

004033 1:10, 1:30, 1:100, 1:300, 1:1,000, ctl (Id-n°: 50870) rabbit **12 profiles**, 1 x 12

## DAT IgG1/IgG3

In the ID-Card **DAT IgG1/IgG3**, 2 dilutions of both anti-IgG1 and IgG3 are added to the gel, to allow the differentiation between low and high risk for hemolysis.

A positive reaction with the first dilution has a sensitivity of approximately 1,000 IgG1 and 125 IgG3 molecules/cells respectively. A positive reaction with the second dilution indicates a high concentration of anti-IgG1 and/or IgG3 antibodies.



### Ordering Information

Catalog # Description

#### DAT IgG1/IgG3

004043 IgG subclasses (Id-n°: 50890) **12 profiles**, 1 x 12

**IgG1:** cell line M345/795, **IgG3:** cell line M346/805

## DiaScreen

The ID-Card **DiaScreen** consists of 4 microtubes containing polyspecific AHG for the IAT and 2 microtubes containing *neutral* gel for the two-stage enzyme technique.

### Ordering Information

Catalog # Description

#### DiaScreen

004704	4 x AHG tests/2 x enzyme tests (Id-n°: 50571) <b>48 profiles</b> , 4 x 12
004707	4 x AHG tests/2 x enzyme tests (Id-n°: 50571) <b>288 profiles</b> , 24 x 12
004706	4 x AHG tests/2 x enzyme tests (Id-n°: 50571) <b>720 profiles</b> , 60 x 12
004705	4 x AHG tests/2 x enzyme tests (Id-n°: 50571) <b>1,344 profiles</b> , 112 x 12

**AHG:** rabbit, **C3d:** cell line C139-9



## LISS/Coombs + Enzyme Test

The ID-Card **LISS/Coombs + Enzyme Test** offers complete antibody screening for one donor or patient in an easy single step, when used in conjunction with **ID-DiaCell I-II-III** test cell reagents for the Indirect Antiglobulin Test (IAT) procedure and **ID-DiaCell IP-IIP-IIIP** papainized test cell reagents for the two-stage enzyme technique.

### Ordering Information

Catalog # Description

#### LISS/Coombs + Enzyme Test

004514	3 x AHG tests/3 x enzyme tests (Id-n°: 50581) <b>48 profiles</b> , 4 x 12
004517	3 x AHG tests/3 x enzyme tests (Id-n°: 50581) <b>288 profiles</b> , 24 x 12
004516	3 x AHG tests/3 x enzyme tests (Id-n°: 50581) <b>720 profiles</b> , 60 x 12
004515	3 x AHG tests/3 x enzyme tests (Id-n°: 50581) <b>1,344 profiles</b> , 112 x 12

**AHG:** rabbit, **C3d:** cell line C139-9



## LISS/Coombs

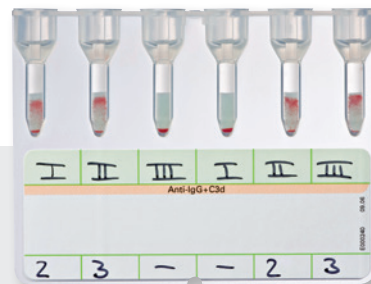
### Ordering Information

Catalog # Description

#### LISS/Coombs

004014	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>288 profiles</b> , 4 x 12
004017	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>1,728 profiles</b> , 24 x 12
004016	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>4,320 profiles</b> , 60 x 12
004015	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>8,064 profiles</b> , 112 x 12

**C3d:** cell line C139-9



## Coombs Anti-IgG

### Ordering Information

Catalog # Description

#### Coombs Anti-IgG

004024	6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit <b>288 profiles</b> , 4 x 12
004027	6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit <b>1,728 profiles</b> , 24 x 12
004026	6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit <b>4,320 profiles</b> , 60 x 12
004025	6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit <b>8,064 profiles</b> , 112 x 12



## NaCl, Enzyme Test and Cold Agglutinins

The ID-Card **NaCl, Enzyme Test and Cold Agglutinins** is suitable for antibody screening and identification procedures, compatibility testing and reverse grouping.

It is not considered necessary to include the room temperature saline test in routine antibody screening procedures, but the saline test at 4°C can be used to detect cold agglutinins.

### Ordering Information

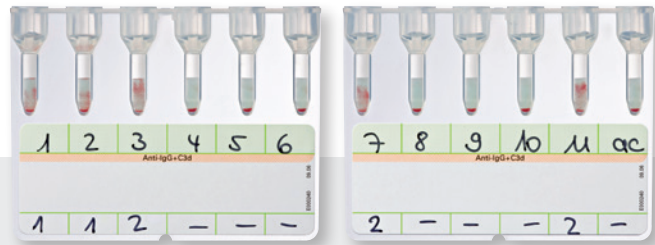
Catalog # Description

#### NaCl, Enzyme Test and Cold Agglutinins

005014	6 x tests (Id-n°: 50520) <b>288 profiles</b> , 4 x 12
005017	6 x tests (Id-n°: 50520) <b>1,728 profiles</b> , 24 x 12
005016	6 x tests (Id-n°: 50520) <b>4,320 profiles</b> , 60 x 12
005015	6 x tests (Id-n°: 50520) <b>8,064 profiles</b> , 112 x 12



## LISS/Coombs



### Ordering Information

Catalog # Description

#### LISS/Coombs

- 004014 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 288 profiles, 4 x 12
- 004017 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 1,728 profiles, 24 x 12
- 004016 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 4,320 profiles, 60 x 12
- 004015 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 8,064 profiles, 112 x 12

**C3d:** cell line C139-9

## Coombs Anti-IgG



### Ordering Information

Catalog # Description

#### Coombs Anti-IgG

- 004024 6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit 288 profiles, 4 x 12
- 004027 6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit 1,728 profiles, 24 x 12
- 004026 6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit 4,320 profiles, 60 x 12
- 004025 6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit 8,064 profiles, 112 x 12

## NaCl, Enzyme Test and Cold Agglutinins

The ID-Card **NaCl, Enzyme Test and Cold Agglutinins** is suitable for antibody screening and identification procedures, compatibility testing and reverse grouping.

It is not considered necessary to include the room temperature saline test in routine antibody screening procedures, but the saline test at 4°C can be used to detect cold agglutinins.



### Ordering Information

Catalog # Description

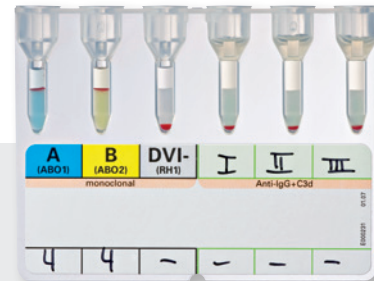
#### NaCl, Enzyme Test and Cold Agglutinins

- 005014 6 x tests (Id-n°: 50520) 288 profiles, 4 x 12
- 005017 6 x tests (Id-n°: 50520) 1,728 profiles, 24 x 12
- 005016 6 x tests (Id-n°: 50520) 4,320 profiles, 60 x 12
- 005015 6 x tests (Id-n°: 50520) 8,064 profiles, 112 x 12

# DiaClon Type + Screen

Under certain rigorous conditions, compatibility tests before a blood transfusion may be replaced by *Type and Screen* testing (T/S) of the recipient.

The *Type and Screen* test must not be used to replace full crossmatch where the crossmatch is designated as a mandatory procedure by the national regulatory body.



## Ordering Information

Catalog #      Description

### DiaClon Type + Screen

002437	A, B, DVI-/3 x AHG (Id-n°: 50682) <b>48 profiles</b> , 4 x 12
002431	A, B, DVI-/3 x AHG (Id-n°: 50682) <b>288 profiles</b> , 24 x 12
002439	A, B, DVI-/3 x AHG (Id-n°: 50682) <b>720 profiles</b> , 60 x 12
002438	A, B, DVI-/3 x AHG (Id-n°: 50682) <b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **D:** LHM59/20 (LDM3), 175-2, **AHG:** rabbit, **C3d:** cell line C139-9

## Compatibility Tests

The methods used in compatibility tests should include those that will demonstrate ABO and RhD incompatibility and detect clinically significant unexpected antibodies.

The ID-Card **Complete Crossmatch** is configured to meet the above requirements in one easy step:

- ABD-confirmation of both donor and/or recipient
- Major crossmatch test by the Indirect Antihumanglobulin test (IAT)
- Major enzyme crossmatch test
- Autocontrol (IAT test)

## DiaClon Complete Crossmatch

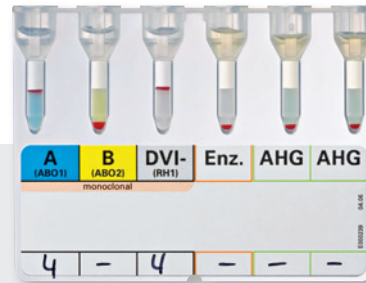
### Ordering Information

Catalog # Description

#### DiaClon Complete Crossmatch

004614	A, B, DVI-/Enz./2 x AHG (Id-n°: 50601) <b>48 profiles</b> , 4 x 12
004617	A, B, DVI-/Enz./2 x AHG (Id-n°: 50601) <b>288 profiles</b> , 24 x 12
004616	A, B, DVI-/Enz./2 x AHG (Id-n°: 50601) <b>720 profiles</b> , 60 x 12
004615	A, B, DVI-/Enz./2 x AHG (Id-n°: 50601) <b>1,344 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** LHM59/20 (LDM3), 175-2, **AHG:** rabbit, **C3d:** cell line C139-9



## LISS/Coombs

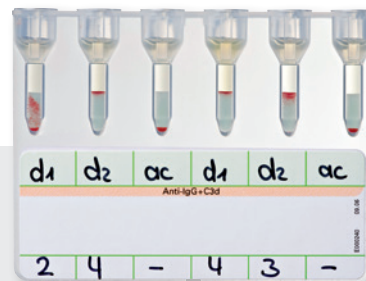
### Ordering Information

Catalog # Description

#### LISS/Coombs

004014	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>288 profiles</b> , 4 x 12
004017	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>1,728 profiles</b> , 24 x 12
004016	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>4,320 profiles</b> , 60 x 12
004015	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit <b>8,064 profiles</b> , 112 x 12

**C3d:** cell line C139-9





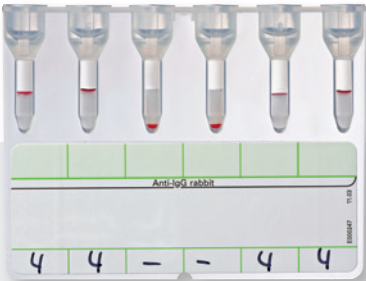
# Coombs Anti-IgG

### Ordering Information

Catalog # Description

#### Coombs Anti-IgG

- 004024 6 x AHG (Anti-IgG) tests (Id-nº: 50540) rabbit **288 profiles**, 4 x 12
- 004027 6 x AHG (Anti-IgG) tests (Id-nº: 50540) rabbit **1,728 profiles**, 24 x 12
- 004026 6 x AHG (Anti-IgG) tests (Id-nº: 50540) rabbit **4,320 profiles**, 60 x 12
- 004025 6 x AHG (Anti-IgG) tests (Id-nº: 50540) rabbit **8,064 profiles**, 112 x 12



# NaCl, Enzyme Test and Cold Agglutinins

### Ordering Information

Catalog # Description

#### NaCl, Enzyme Test and Cold Agglutinins

- 005014 6 x tests (Id-nº: 50520) **288 profiles**, 4 x 12
- 005017 6 x tests (Id-nº: 50520) **1,728 profiles**, 24 x 12
- 005016 6 x tests (Id-nº: 50520) **4,320 profiles**, 60 x 12
- 005015 6 x tests (Id-nº: 50520) **8,064 profiles**, 112 x 12



## Compatibility Tests

To ensure that appropriate therapeutic measures are instigated, DVI patients' red cells should be assigned Rh negative status. Conversely, donor bloods should

be tested with anti-D that does detect DVI and assigned Rh positive status, to avoid the unit being transfused to an RhD negative or partial D patient.

## DiaClon ABD-Confirmation for Patients

The ABD confirmation ID-Card can be used for the ABO/D blood group control of patients.

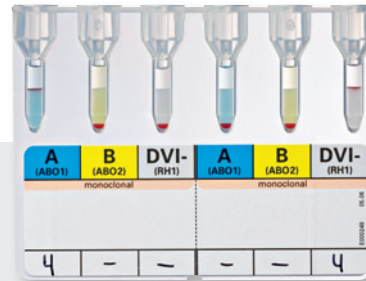
### Ordering Information

Catalog # Description

#### DiaClon ABD-Confirmation for Patients

001254	A, B, DVI-/A, B, DVI- (Id-n°: 50053) <b>96 profiles</b> , 4 x 12
001257	A, B, DVI-/A, B, DVI- (Id-n°: 50053) <b>576 profiles</b> , 24 x 12
001256	A, B, DVI-/A, B, DVI- (Id-n°: 50053) <b>1,440 profiles</b> , 60 x 12
001255	A, B, DVI-/A, B, DVI- (Id-n°: 50053) <b>2,688 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** TH28, RUM-1, LDM1



## DiaClon ABD-Confirmation for Donors

The ABD confirmation ID-Card can be used for the ABO/D blood group control of donors.

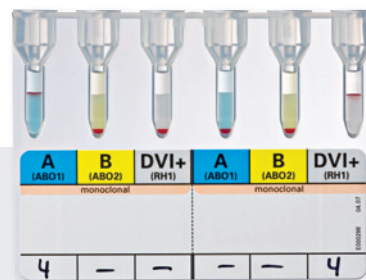
### Ordering Information

Catalog # Description

#### DiaClon ABD-Confirmation for Donors

001134	A, B, DVI+/A, B, DVI+ (Id-n°: 51051) <b>96 profiles</b> , 4 x 12
001133	A, B, DVI+/A, B, DVI+ (Id-n°: 51051) <b>576 profiles</b> , 24 x 12
001136	A, B, DVI+/A, B, DVI+ (Id-n°: 51051) <b>1,440 profiles</b> , 60 x 12
001135	A, B, DVI+/A, B, DVI+ (Id-n°: 51051) <b>2,688 profiles</b> , 112 x 12

Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** ESD-1M, 175-2



## ID-Diluent 1

**ID-Diluent 1** is a modified bromelin solution in which the enzyme activity is stabilised for a long period, specially prepared for the **ID-System**. **ID-Diluent 1** is used for preparing suspensions of red cells for blood grouping and as an additive for enzyme tests with untreated red cells for antibody detection and crossmatching.



### Ordering Information

Catalog #      Description

#### **ID-Diluent 1**

009160      **Modified Bromelin solution for red cell suspensions and enzyme tests** (Id-n°: 05751), 2 x 100 ml  
 009180      **Modified Bromelin solution for red cell suspensions and enzyme tests** (Id-n°: 05751), 1 x 500 ml

#### **ID-Diluent 1 rack for IH-Analyzers**

009190      **Modified Bromelin solution for red cell suspensions and enzyme tests** (Id-n°: 05751), 10 racks with 60 x 700 µl

## ID-Diluent 2

**ID-Diluent 2** is a modified low ionic strength solution made for the **ID-System**, for preparing 5% red cell suspensions for blood grouping as well as 0.8% red cell suspensions for crossmatching, autocontrol, direct anti-human globulin test, blood grouping of newborns and test cells prepared in the laboratory.



### Ordering Information

Catalog #      Description

#### **ID-Diluent 2**

009260      **Modified LISS for red cell suspensions** (Id-n°: 05761), 2 x 100 ml  
 009280      **Modified LISS for red cell suspensions** (Id-n°: 05761), 1 x 500 ml

#### **ID-Diluent 2 rack for IH-Analyzers**

009290      **Modified LISS for red cell suspensions** (Id-n°: 05761), 10 racks with 60 x 700 µl

## ID-CellStab

**ID-CellStab** is a specially formulated glycine buffered saline which stabilizes red cells at 0.8% suspension for use in the ID-System for up to 4 weeks after preparation.



### Ordering Information

Catalog #	Description
<b>ID-CellStab</b>	
005650	Stabilisation solution for red cells (Id-n°: 05740), 1 x 500 ml
005660	Stabilisation solution for red cells (Id-n°: 05740), 2 x 100 ml

## ID-CellWash-P

When required, red cells can be papainized by the blood group laboratory, using **ID-Papain**, a standardized liquid papain solution. After treatment of the red cells with papain, the cells must be washed with the specially prepared **ID-CellWash-P**.



### Ordering Information

Catalog #	Description
<b>ID-CellWash-P</b>	
005550	Wash solution for papainized red cells (Id-n°: 05710), 1 x 500 ml

## ID-Papain

**ID-Papain** is a standardized liquid papain solution and may be used for pre-treating red cells by laboratories that prepare their own red cell reagents, or may be used as an enzyme additive reagent in a one stage technique.



### Ordering Information

Catalog #	Description
<b>ID-Papain</b>	
005510	Papain solution for papainizing red cells (Id-n°: 06311), 1 x 10 ml
005511	Papain solution for papainizing red cells (Id-n°: 06311), 10 x 10 ml

*Stability 7 weeks, shipment on standing order, every 4 weeks*

## ID-Titration Solution

**ID-Titration Solution** is a dilution medium intended to be used for the titre determination of antibodies in patient and donor samples with the **ID-System**.

Combined with **ID-Titration Racks**, **ID-Titration Solution** can be used with **IH-500** which leads to a higher accuracy in the dilution procedure and a better reliability of the overall titration process.

**ID-Titration Solution** is also suitable for manual use with the **ID-System**.

New



### Ordering Information

Catalog # Description

#### **ID-Titration Solution**

009360 Standardized medium for titration (Id-n°: 05780), 10 x 10 ml

#### **ID-Titration Racks**

009390 Empty racks for the use on **IH-500** (Id-n°: 05770), 10 racks of 60 wells

## DiaCidel

### Ordering Information

Catalog # Description

#### **DiaCidel**

108230 For acid elution of serological antibodies (Id-n°: 45630), 10 tests



We developed two special buffers for easy freezing and thawing of red cells, allowing the preservation of interesting

antigen configurations so that the laboratory has rare red cells available at any time.

## DiaMed CellFreeze

### Ordering Information

Catalog # Description

#### **DiaMed CellFreeze**

005702 Freezing solution for long term storage of red cells (Id-n°: 40230), 2 x 100 ml



## DiaMed CellThaw

### Ordering Information

Catalog # Description

#### **DiaMed CellThaw**

005712 Thawing solution for frozen red cells (Id-n°: 40240), 2 x 100 ml



## Test Cells for Reverse Grouping

Isoagglutinins (natural occurring antibodies, anti-A, anti-B, anti-AB) are cold reactive antibodies which react best at 4°C. However, they are also reactive at room temperature

and may react at 37°C. They involve a mixture of IgM and IgG. The largest proportion, however, belongs to the IgM class.

## ID-DiaCell ABO

All test cell reagents are of human origin, in a buffered suspension medium at 0.8% ( $\pm$  0.1%).



### Ordering Information

Catalog #	Description
<b>ID-DiaCell ABO</b>	
003619	<b>Set of 4 vials A<sub>1</sub>, A<sub>2</sub>, B, O</b> (Id-n°: 45022) <b>200 tests</b> , 4 x 10 ml
003617	<b>Set of 3 vials A<sub>1</sub>, A<sub>2</sub>, B</b> (Id-n°: 45082) <b>200 tests</b> , 3 x 10 ml
003615	<b>Set of 3 vials A<sub>1</sub>, B, O</b> (Id-n°: 45352) <b>200 tests</b> , 3 x 10 ml
003624	<b>Set of 2 vials A<sub>1</sub>, B</b> (Id-n°: 45092) <b>200 tests</b> , 2 x 10 ml
003620	<b>Single vial: A<sub>1</sub></b> (Id-n°: 06012) <b>200 tests</b> , 1 x 10 ml
003621	<b>Single vial: A<sub>2</sub></b> (Id-n°: 06022) <b>200 tests</b> , 1 x 10 ml
003622	<b>Single vial: B</b> (Id-n°: 06032) <b>200 tests</b> , 1 x 10 ml
003623	<b>Single vial: O</b> (Id-n°: 06042) <b>200 tests</b> , 1 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

## ID-DiaCell ABO/I-II-III

### Ordering Information

Catalog # Description

**ID-DiaCell ABO/I-II-III**  
003618 Set of 6 vials A<sub>1</sub>, A<sub>2</sub>, B/I, II, III (Id-n°: 45012) 200 tests, 6 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



## ID-DiaCell ABO/I-II

### Ordering Information

Catalog # Description

**ID-DiaCell ABO/I-II**  
003610 Set of 6 vials A<sub>1</sub>, A<sub>2</sub>, B, O/I, II (Id-n°: 45002) 200 tests, 6 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



## ID-DiaScreen I-VI/Antigen Table (example)

	Rh-hr	Donor	Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	
			D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	F/M
I	C <sup>w</sup> CD.ee	R <sub>1</sub> R <sub>1</sub>	675479	+	+	0	0	+	+	0	+	0	+	0	+	+	+	0	0	0	+	+	0	+	0	+	+	+	F
II	ccD.EE	R <sub>2</sub> R <sub>2</sub>	001251	+	0	+	+	0	0	0	+	0	+	+	+	+	0	+	0	+	0	+	+	+	+	+	+	+	M
III	ccddee	rr	060556	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	+	+	+	+	+	0	0	+	+	M	
IV	CCD.ee	R <sub>1</sub> R <sub>1</sub>	887567	+	+	0	0	+	0	0	+	+	+	0	+	+	0	+	+	+	+	0	0	+	0	+	0	M	
V	C <sup>w</sup> CD.ee	R <sub>1</sub> R <sub>1</sub>	928899	+	+	0	0	+	+	+	+	0	+	0	+	+	0	+	+	+	+	+	+	+	0	+	+	F	
VI	ccD.EE	R <sub>2</sub> R <sub>2</sub>	158648	+	0	+	+	0	0	0	+	0	+	+	+	+	0	0	+	+	+	0	+	+	0	+	+	M	

### Fixed Rh Pattern I-IV: R<sub>1</sub>R<sub>1</sub> (C<sup>w</sup>)/R<sub>2</sub>R<sub>2</sub>/rr/any Rh (or C<sup>w</sup>)

Four group O, RhD positive cells: C <sup>w</sup> CD.ee (R <sub>1</sub> R <sub>1</sub> ), ccDEE (R <sub>2</sub> R <sub>2</sub> ) and CCD.ee (R <sub>1</sub> R <sub>1</sub> ), one RhD negative cell: ccddee (rr)	Enabling you to detect Rh-antibodies showing dosage
One cell K+	Enabling you to detect anti-K, a frequent antibody, alone or in combination
At least one cell double dose Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , M, S and s	Enabling you to detect antibodies often showing dosage
All cells tested serologically for HLA-related antigens	Minimises nuisance caused by insignificant reactivity
Kp <sup>a</sup> , C <sup>w</sup> and Lu <sup>a</sup> positive	Additional security and convenience
At least one cell positive for Le <sup>a</sup> , Le <sup>b</sup> , P <sub>1</sub> and N	

### Fixed Rh Pattern V-VI: R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>

One cell is homozygous Jk(a+b-)	Enabling detection of anti-Jk <sup>a</sup> showing dosage
One cell is Le(a+b-), the other Le(a-b+)	Additional security and convenience
One cell is C <sup>w</sup> positive	Additional security and convenience

	D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	Bg <sup>a</sup>	
Guaranteed Antigens																												
Guaranteed Homozygote Antigens																												

■ Antigen present ■ Antigen not present



# ID-DiaScreen

## Expanded six-cell screening

- All the features of 3-cell screening
- PLUS two papain-treated cells
- PLUS one cell Kp(a+)
- PLUS one cell Lu(a+)



### Ordering Information

Catalog #	Description
<b>ID-DiaScreen</b>	
004316	Set of 6 vials for IAT and enzyme test I, II, III, IV, V, VI R <sup>y</sup> R <sub>1</sub> , R <sub>2</sub> R <sub>2</sub> , rr, Kp <sup>a</sup> /R <sup>y</sup> R <sub>1</sub> , R <sub>2</sub> R <sub>2</sub> papainized (Id-n°: 45070) <b>200 tests</b> , 6 x 10 ml
004311	Set of 4 vials for IAT, I, II, III, IV R <sup>y</sup> R <sub>1</sub> , R <sub>2</sub> R <sub>2</sub> , rr, Kp <sup>a</sup> (Id-n°: 45200) <b>200 tests</b> , 4 x 10 ml
005311	Set of 2 vials for enzyme test V, VI R <sup>y</sup> R <sub>1</sub> , R <sub>2</sub> R <sub>2</sub> papainized (Id-n°: 45210) <b>200 tests</b> , 2 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

# ID-DiaScreen Prophylax

To use with ID-Cards LISS/Coombs or Anti-IgG

## Screening maternal samples after anti-D prophylaxis

- One RhD positive and five RhD negative cells
- Double dose for Fy<sup>a</sup>, Fy<sup>b</sup>, Jk<sup>a</sup>, Jk<sup>b</sup>, M, S and s
- At least one cell positive for K, Le<sup>a</sup>, Le<sup>b</sup>, P<sub>1</sub> and N
- Tested by serology for HLA Class I antigens



### Ordering Information

Catalog #	Description
<b>ID-DiaScreen Prophylax</b>	
004330	Set of 6 vials for IAT R <sub>1</sub> R <sub>2</sub> , r'r, r'r, rr, rr (Id-n°: 45660) <b>100 tests</b> , 6 x 5 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

# Test Cells for Antibody Screening

## ID-DiaCell I-II-III/Antigen Table (example)

	Rh-hr	Donor	Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg					
			D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	F/M				
I	C <sup>w</sup> CD.ee	R <sub>1</sub> R <sub>1</sub>	754456	+	+	0	0	+	+	0	+	0	+	0	+	+	0	+	+	0	+	+	0	+	+	0	+	0	+	0	+	0	M
II	ccD.EE	R <sub>2</sub> R <sub>2</sub>	047144	+	0	+	+	0	0	0	+	+	+	0	+	+	0	+	+	0	+	0	+	+	+	+	0	+	+	+	+	+	M
III	ccddee	rr	101469	0	0	0	+	+	0	+	+	0	+	0	+	+	0	0	+	+	0	+	+	0	+	+	+	+	+	+	+	+	F

## Fixed Rh Pattern I-III: R<sub>1</sub>R<sub>1</sub>/R<sub>2</sub>R<sub>2</sub>/rr

Three group O, RhD positive cells: CCDee (R <sub>1</sub> R <sub>1</sub> ) and ccDEE (R <sub>2</sub> R <sub>2</sub> ) and one RhD negative cell: cc.ee (rr)	Enabling you to detect Rh-antibodies showing dosage
One cell K+	Enabling you to detect anti-K, alone or in combination
At least one cell double dose Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , M, S and s	Enabling you to detect antibodies often showing dosage
All cells tested serologically for HLA-related antigens	Minimises nuisance caused by insignificant reactivity
Kp <sup>a</sup> and Lu <sup>a</sup> positive if available	Additional security and convenience
At least one cell positive for Le <sup>a</sup> , Le <sup>b</sup> , P <sub>1</sub> and N	

Cells from the same three individual donors available also in papain treated format as ID-DiaCell IP-IIP-IIIIP  
 Increased sensitivity in the detection of antibodies in the Rh, Kidd and Lewis blood group systems  
 Antibodies to enzyme-sensitive antigens will not be detected: Duffy, MNS and Xg blood group system

	D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	Bg <sup>a</sup>		
Guaranteed Antigens																													
Guaranteed Homozygote Antigens																													

■ Antigen present ■ Antigen present if possible ■ Antigen not present

## ID-DiaCell I-II-III

### Three-cell screening for patients

- Two RhD positive cells (CCD<sub>ee</sub>, C<sup>w+</sup>, ccD<sub>EE</sub>) and one cell RhD negative (ccd<sub>dee</sub>)
- Double dose for Fy<sup>a</sup>, Fy<sup>b</sup>, Jk<sup>a</sup>, Jk<sup>b</sup>, M, S and s
- At least one cell positive for K, Le<sup>a</sup>, Le<sup>b</sup>, P<sub>1</sub> and N
- Tested by serology for HLA Class I antigens



#### Ordering Information

Catalog # Description

#### ID-DiaCell I-II-III

004310 Set of 3 vials for IAT and NaCl test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>, rr (Id-n°: 45184) 200 tests, 3 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

## ID-DiaCell IP-IIP-IIIIP

### Three-cell screening for patients (papainized)



#### Ordering Information

Catalog # Description

#### ID-DiaCell IP-IIP-IIIIP

005310 Set of 3 vials for enzyme test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>, rr papainized (Id-n°: 45194) 200 tests, 3 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

# Test Cells for Antibody Screening

## ID-DiaCell I-II/Antigen Table (example)

	Rh-hr	Donor	Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg				
			D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	F/M			
I	CCD.ee	R <sub>1</sub> R <sub>1</sub>	950823	+	+	0	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	+	+	F
II	ccD.EE	R <sub>2</sub> R <sub>2</sub>	090901	+	0	+	+	0	0	0	+	0	+	0	+	+	0	+	0	+	+	+	0	+	0	+	+	+	+	+	F	

## Fixed Rh Pattern I-II: R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>

Two group O, RhD positive cells: CCD.ee (R <sub>1</sub> R <sub>1</sub> ) and ccD.EE (R <sub>2</sub> R <sub>2</sub> )	Enabling you to detect Rh-antibodies showing dosage
One cell K+	Enabling you to detect anti-K, alone or in combination
One cell Fy(a+b-), one cell Jk(a+b-)	Enabling you to detect anti-Fy <sup>a</sup> /anti-Jk <sup>a</sup> showing dosage
At least one cell positive for Fy <sup>b</sup> , Jk <sup>b</sup> , Le <sup>b</sup> , P <sub>1</sub> , M, N, S and s	Enabling you to detect clinically significant antibodies
All cells tested serologically for HLA-related antigens	Minimises nuisance caused by insignificant reactivity

	D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	Bg <sup>a</sup>		
Guaranteed Antigens																													
Guaranteed Homozygote Antigens																													

■ Antigen present ■ Antigen not present

## ID-DiaCell I-II

### Two-cell screening for donors

- Two RhD positive cells (CCDee and ccDEE)
- Double dose for Fy<sup>a</sup> and Jk<sup>a</sup>
- At least one cell positive for K, Fy<sup>b</sup>, Jk<sup>b</sup>, Le<sup>a</sup>, Le<sup>b</sup>, P<sub>1</sub>, M, N, S and s
- Tested by serology for HLA Class I antigens



### Ordering Information

Catalog # Description

#### ID-DiaCell I-II

003613 Set of 2 vials for IAT and NaCl test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub> (Id-n°: 45151) **200 tests**, 2 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*

## ID-DiaCell I-II-III Asia (Mi<sup>a</sup>+)

### Three-cell screening for patients

- Two RhD positive cells (CCDee and ccDEE)
- Double dose for Fy<sup>a</sup> and Jk<sup>a</sup>
- A least one cell positive for K, Fy<sup>b</sup>, Jk<sup>b</sup>, Le<sup>a</sup>, Le<sup>b</sup>, P<sub>1</sub>, M, N, S, s and Mi<sup>a</sup>
- Tested by serology for HLA Class I antigens



### Ordering Information

Catalog # Description

#### ID-DiaCell I-II-III Asia

003614 Set of 3 vials for IAT and NaCl test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>, Mi<sup>a</sup>+ (Id-n°: 45330) **200 tests**, 3 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks  
According to availability*

## ID-Di<sup>a</sup> (Diego) Positive

### Ordering Information

Catalog # Description

#### ID-Di<sup>a</sup> (Diego) Positive

004134 Single vial (Id-n°: 05980) **200 tests**, 1 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



## ID-I Negative Cell

### Ordering Information

Catalog # Description

#### ID-I Negative Cell

004111 Single vial (Id-n°: 06291) **32 tests**, 1 x 1.6 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



## ID-DiaCell Pool

### Ordering Information

Catalog # Description

#### ID-DiaCell Pool

003630 **2 pooled cells for IAT test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>** (Id-n°: 06070) **200 tests**, 1 x 10 ml

003631 **2 pooled cells for IAT test R<sub>1</sub>R<sub>1</sub>, R<sub>2</sub>R<sub>2</sub>** (Id-n°: 06070) **600 tests**, 3 x 10 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



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# Test Cells for Antibody Identification

## ID-DiaPanel 1-11/Antigen Table (example)

	Rh-hr	Donor	Rh						Kell						Duffy		Kidd		Lewis		P		MNS					Luth.		Xg	
			D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	F/M		
1	C <sup>w</sup> CD.ee	R <sub>1</sub> R <sub>1</sub>	677783	+	+	0	0	+	+	0	+	0	+	+	0	+	0	+	+	+	+	0	+	0	0	+	+				
2	CCD.ee	R <sub>1</sub> R <sub>1</sub>	113683	+	+	0	0	+	+	0	+	0	+	0	+	+	+	0	0	+	0	+	0	+	0	+	0				
3	ccD.EE	R <sub>2</sub> R <sub>2</sub>	422278	+	0	+	+	0	0	0	+	0	+	+	+	0	+	+	+	+	+	+	0	0	0	+	+				
4	Ccddee	r'r	293832	0	+	0	+	+	0	0	+	0	+	+	0	0	+	+	0	+	+	+	+	+	0	+	+				
5	ccddEe	r''r	307849	0	0	+	+	+	0	0	+	0	+	+	+	+	+	0	+	+	+	0	+	+	+	+	0				
6	ccddee	rr	308478	0	0	0	+	+	0	+	+	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	nt				
7	ccddee	rr	439656	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	0	+	+				
8	ccD.ee	Ror	032656	+	0	0	+	+	0	0	+	0	+	0	+	0	0	0	+	0	+	0	+	0	+	0	+	0			
9	ccddee	rr	341656	0	0	0	+	+	0	0	+	0	+	+	0	0	+	+	0	0	+	0	+	0	+	0	+	0			
10	ccddee	rr	454253	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	0	+	+	0	0	+	0	+	0			
11	ccddee	rr	169276	0	0	0	+	+	0	0	+	+	+	0	+	+	0	+	+	0	0	+	0	+	0	+	+	0			

■ Two K+ cells, one D neg and one c neg ■ D neg cells (cc.ee), positive for Lewis ■ D neg cells, double dose cells for Duffy, Kidd and MNS  
 ■ A Fy(a-b-) cell ■ CCDee; K-; Fy(a+b-) CCDee; K+; Fy(a-b+) ■ Fixed Rh pattern

Combined papain-treated and untreated panel — Fixed Rh pattern

### Fixed Rh pattern 1-11: R<sub>1</sub>R<sub>1</sub>/R<sub>1</sub>R<sub>1</sub>/R<sub>2</sub>R<sub>2</sub>/r'r/r''r/rr/rr/Ror/rr/rr/rr

11 group O adult cells	Allows identification of most single antibodies and simple antibody mixtures
Fixed Rh pattern	Allows identification of most single antibodies and simple antibody mixtures in the Rh system
Minimum 2, maximum 3 K+ cells; one CCDee, other(s) ccddee	Allows identification of anti-K, alone or underlying anti-c/anti-D
Minimum 2, preferably 3 cells double dose for Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , M, N, S and s	Allows identification of specific antibodies, even when they show dosage, and will allow underlying antibodies to be ruled out
Minimum 2 cells negative for Le <sup>a</sup> , Le <sup>b</sup> and P <sub>1</sub>	Allows identification of specific antibodies, and will allow underlying antibodies to be ruled out
On the ccddee cells, minimum 1 cell homozygous for Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , M, N, S and s	Allows identification of specific antibodies underlying anti-D, anti-CD, anti-CDE, including those showing dosage
On the ccddee cells, minimum 1 cell positive for Le <sup>a</sup> , Le <sup>b</sup> and P <sub>1</sub>	Allows identification of specific antibodies underlying anti-D, anti-CD and anti-CDE
Minimum 2, maximum 3 Le(a-b-) cells	Allows identification of anti-Le <sup>a</sup> and Le <sup>b</sup> , common in prenatal patients and in Black populations
When available, one of the CCDee cells will be K+; Fy(a-b+) and the other K-; Fy(a-b-)	Allows identification of anti-K and/or anti-Fy <sup>a</sup> underlying anti-c
One cell is always Fy(a-b-)	Allows identification of antibodies underlying anti-Fy <sup>a</sup> or anti-Fy <sup>b</sup> or to identify unusual antibodies in the Duffy system
Standard and papain-treated panels	Offers improved efficiency and time saving and allows identification of routine, weak and complex antibody problems



	D	C	E	c	e	C <sup>w</sup>	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Le <sup>a</sup>	Le <sup>b</sup>	P <sub>1</sub>	M	N	S	s	Lu <sup>a</sup>	Lu <sup>b</sup>	Xg <sup>a</sup>	Bg <sup>a</sup>		
Guaranteed Antigens																													
Guaranteed Homozygote Antigens																													
Guaranteed 2 x Homozygote Antigens																													
Guaranteed 2 x more Antigens Negative																													

■ Antigen present ■ Antigen not present

## ID-DiaPanel

### Test Cells for Antibody Identification

- Fixed Rh phenotype pattern
- Assured presence of cells possessing double-dose antigens throughout
- Five ccddee cells carefully selected to assure double-dose of significant blood group antigens
- Tested by serology for HLA Class I antigens

#### Ordering Information

Catalog # Description  
**ID-DiaPanel**  
 004114 Set of 11 vials for IAT and NaCl test (Id-n°: 45161) **80 tests**, 11 x 4 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



## ID-DiaPanel Plus 6

### Selected cells for complex problems

- Two additional c-negative, and two additional e-negative cells, all double dose for the significant blood group antigens
- One of the e-negative cells is K+
- Alternating presence of a CCDEe/CcDEE cell
- Alternating presence of a cell lacking a high incidence or possessing a low incidence antigen
- Tested by serology for HLA Class I antigens

#### Ordering Information

Catalog # Description  
**ID-DiaPanel Plus 6**  
 004414 Set of 6 vials for IAT and NaCl test (Id-n°: 45670) **80 tests**, 6 x 4 ml

*Stability 12 weeks, shipment on standing order every 8 weeks*



## ID-DiaPanel-P

### Test cells for antibody identification in two-step papain test

#### Ordering Information

Catalog # Description  
**ID-DiaPanel-P**  
 004214 Set of 11 vials for enzyme test, papainized (Id-n°: 45171) **80 tests**, 11 x 4 ml

*Stability 7 weeks, shipment on standing order every 4 weeks*



# IH-QC Modular System

Transfusion guidelines recommend regular checking of test materials, test methods, local working instructions and automated equipment/instruments used. The control sample should always have the same characteristics as a patient sample and therefore be treated identically.

These activities are intended to ensure accuracy and safety of the blood grouping serological results. The controls should be carried out at regular intervals. Please refer to local/national guidelines.

## IH-QC 1

4 tubes containing 6 ml of a human red blood cells suspension (Hct 15%).

### Ordering Information

Catalog #	Description
<b>IH-QC 1</b> 009321	<b>Set of 4 tubes</b> (Id-n°: 08710), 4 x 6 ml, 1 Set

*Supplies on standing order, every 4 weeks*



## IH-QC 2

4 tubes containing 6 ml of a human red blood cells suspension (Hct 15%).

### Ordering Information

Catalog #	Description
<b>IH-QC 2</b> 009322	<b>Set of 4 tubes</b> (Id-n°: 08720), 4 x 6 ml, 1 Set

*Supplies on standing order, every 4 weeks*



## IH-QC 3

4 tubes containing 6 ml of a human red blood cells suspension (Hct 15%).

### Ordering Information

Catalog #	Description
<b>IH-QC 3</b> 009323	<b>Set of 4 tubes</b> (Id-n°: 08730), 4 x 6 ml, 1 Set

*Supplies on standing order, every 4 weeks*



## IH-QC 4

4 tubes containing 6 ml of a human red blood cells suspension (Hct 15%).



### Ordering Information

Catalog # Description  
**IH-QC 4**  
 009324 **Set of 4 tubes** (Id-n°: 08740), 4 x 6 ml, 1 Set

*Supplies on standing order, every 4 weeks*

## IH-QC 5

4 tubes containing 6 ml of a human red blood cells suspension (Hct 10%).



### Ordering Information

Catalog # Description  
**IH-QC 5**  
 009325 **Set of 4 tubes** (Id-n°: 08750), 4 x 6 ml, 1 Set

*Supplies on standing order, every 4 weeks*

### Intended Use

**IH-QC 1, IH-QC 2, IH-QC 3, IH-QC 4** and **IH-QC 5** are intended to control the **ID-System** manually and/or with instruments for the determination of the ABO system,

Rh (RH) system, Kell (KEL) system, and/or further immunohematology tests as listed below.

ANALYSIS	IH-QC 1	IH-QC 2	IH-QC 3	IH-QC 4	IH-QC 5
ABO forward and/or reverse grouping	✓	✓	✓	✓	✓
RhD typing	✓	✓	✓	✓	✓
Rh/K phenotyping	✓	✓	✓	✓	✓
Antibody screening/identification, Indirect Antiglobulin Test (IAT)	✓	✓	✓	✓	✓
Antibody screening/identification, 2 stage papain technique	✓	✓	✓	✗	✓
Crossmatch, Indirect Antiglobulin Test (IAT)	✓	✓	✓	✓	✓
Direct Antiglobulin Test (DAT)	✓	✓	✓	✓	✓

## IH-QC 6

1 tube containing 6 ml of a human red blood cells suspension (Hct 10%).



### Ordering Information

Catalog #	Description
<b>IH-QC 6</b> 009326	<b>Single tube</b> (Id-n°: 08760), 1 x 6 ml

*Supplies on standing order, every 4 weeks*

## IH-QC 7

1 tube containing 6 ml of a human red blood cells suspension (Hct 10%).



### Ordering Information

Catalog #	Description
<b>IH-QC 7</b> 009327	<b>Single tube</b> (Id-n°: 08770), 1 x 6 ml

*Supplies on standing order, every 4 weeks*

## IH-QC 8

1 tube containing 6 ml of a human red blood cells suspension (Hct 10%).



### Ordering Information

Catalog #	Description
<b>IH-QC 8</b> 009328	<b>Single tube</b> (Id-n°: 08780), 1 x 6 ml

*Supplies on standing order, every 4 weeks*

### Intended Use

IH-QC 6, IH-QC 7 and IH-QC 8 are intended to control the ID-System manually and/or with instruments for the immunohematology tests listed below.

ANALYSIS	IH-QC 6	IH-QC 7	IH-QC 8
Direct Antiglobulin Test (DAT)	✓	✓	✓
RhD typing and anti-D for weak D confirmation	✓	✗	✗

Reagent Characteristics

	ABO	RH	K	FY	Antibodies		DAT
<b>IH-QC 1</b>	A <sub>1</sub> [ABO:1,-2,3,4]	ddccee (rr), C <sup>w</sup> - [RH:1,-2,-3,4,5,-8]	K+ [KEL:1]	N/A	Anti-B [Anti-ABO2]	Anti-D 0.05 IU/ml [Anti-RH1]	Neg
<b>IH-QC 2</b>	B [ABO:-1,2,3]	DCCeE (R <sub>1</sub> R <sub>2</sub> ), C <sup>w</sup> - [RH:1,2,3,4,5,-8]	K- [KEL:-1]	Fy(a-) [FY:-1]	Anti-A [Anti-ABO1]	Anti-Fy <sup>a</sup> [Anti-FY1]	Neg
<b>IH-QC 3</b>	AB [ABO:1,2,3]	DCCeE (R <sub>1</sub> R <sub>1</sub> ), C <sup>w</sup> - [RH:1,2,-3,-4,5,-8]	K- [KEL:-1]	N/A	Anti-c [Anti-RH4]		Neg
<b>IH-QC 4</b>	O [ABO:-1,-2,-3]	DccEE (R <sub>2</sub> R <sub>2</sub> ), C <sup>w</sup> - [RH:1,-2,3,4,-5,-8]	K- [KEL:-1]	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	Anti-K [Anti-KEL1]	Neg
<b>IH-QC 5</b>	A <sub>2</sub> [ABO:1,-2,3,-4]	DCcee (R <sub>1</sub> r), C <sup>w</sup> - [RH:1,2,-3,4,5,-8]	K- [KEL:-1]	N/A	Anti-B [Anti-ABO2]		Neg
<b>IH-QC 6</b>	N/A	Weak D [RH:W1]	N/A	N/A	N/A		Neg
<b>IH-QC 7</b>	N/A	N/A	N/A	N/A	N/A		Pos [IgG]
<b>IH-QC 8</b>	N/A	N/A	N/A	N/A	N/A		Pos [C3b (c/d)]

N/A: Not Applicable

**Anti-D Reference-Reagent** has been developed to assist in the daily quality monitoring of routine antibody detection procedures.

A standardized dilution of the **Anti-D Reference-Reagent** should be used as a control to validate the sensitivity of routine test methods and reagents used.

It may also be used at appropriate dilutions for the proficiency testing of laboratory staff.

**Bovine Albumin 6%** is required as additional reagent for the dilution of the **Anti-D Reference-Reagent**.

## Anti-D Reference Reagent

Monoclonal for controlling antibody detection procedures.

### Ordering Information

Catalog #	Description
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<b>Anti-D Reference Reagent</b> 105500	<b>Anti-D Reference Reagent</b> (Id-n°: 13010), 6 x 0.5 ml
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Cell lines: ESD 1 and LHM59/19



## Albumin 6%

### Ordering Information

Catalog #	Description
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<b>Albumin 6%</b> 105519	<b>Bovine Albumin 6%</b> (Id-n°: 13030), 1 x 10 ml
105520	<b>Bovine Albumin 6%</b> (Id-n°: 13030), 10 x 10 ml



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## Quality Control for Blood Group Serology

Transfusion guidelines recommend regular checking of test materials, test methods, personnel, working procedures and automated equipment/instruments used. The control sample should always have the same characteristics as a patient/donor

sample and therefore be treated identically. These activities are intended to ensure the accuracy and safety of the blood group serological results.

## ID-Internal Quality Control

**ID-Internal Quality Control** contains 5 vials of 4 ml human red blood cell reagent from single donors as a 3-5% suspension in a buffered medium, and 3 vials with 3 ml serum of human origin.



### Ordering Information

Catalog # Description

#### **ID-Internal Quality Control**

009925 Set of 5 x 4 ml red blood cells and 3 x 3 ml sera (Id-n°: 45341) **80 tests**, 1 Set

*Supplies on standing order, every 4 weeks*

ANALYSIS	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
ABO forward grouping	✓	✓	✓	✓	✗
RhD typing	✓	✓	✓	✓	✗
Rh phenotyping	✗	✓	✓	✗	✗
K phenotyping	✗	✗	✓	✗	✗
Direct Antiglobulin Test (DAT)	✗	✗	✗	✗	✓

ANALYSIS	Serum 1	Serum 2	Serum 3
ABO reverse grouping	✓	✓	✓
Antibody screening/identification	✓	✓	✓



**Reagent Characteristics**

	ABO	RH	K	Antibodies		DAT
<b>Sample 1</b>	AB [ABO:1,2,3]	RhD positive	N/A	N/A	N/A	N/A
<b>Sample 2</b>	O [ABO:-1,-2,-3]	ddcc <sub>ee</sub> (rr) [RH:-1,-2,-3,4,5]	N/A	N/A	N/A	N/A
<b>Sample 3</b>	O [ABO:-1,-2,-3]	DCcEe (R <sub>1</sub> R <sub>2</sub> ) [RH:1,2,3,4,5]	K+ [KEL:1]	N/A	N/A	N/A
<b>Sample 4</b>	O [ABO:-1,-2,-3]	Weak D	N/A	N/A	N/A	N/A
<b>Sample 5</b>	N/A	N/A	N/A	N/A	N/A	Pos
<b>Serum 1</b>	N/A	N/A	N/A	none	Anti-E* [Anti-RH4]	N/A
<b>Serum 2</b>	N/A	N/A	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	Anti-Fy <sup>a</sup> * [Anti-FY1]	N/A
<b>Serum 3</b>	N/A	N/A	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	none	N/A

\* 2 sera with irregular antibodies, which can change from lot to lot

N/A: Not Applicable

## DiaMed Basic Q.C.

**DiaMed Basic Q.C.** contains 2 sets of samples, each set contains paired samples consisting of 8 tubes containing 5 ml of a human red blood cells suspension (Hct 15% ± 2).

Sample 1: group A RhD negative, ccee, K positive, containing anti-B and anti-D (0.05 IU/ml)

Sample 2: group B RhD positive, CcEe, K negative, containing anti-A and anti-Fy<sup>a</sup>



### Ordering Information

Catalog # Description

**DiaMed Basic Q.C.**

009948 Set of 2 x 8 x 5 ml tubes of red blood cells (Id-n°: 45840) **80 tests**, 1 Set

*Supplies on standing order, every 4 weeks*

ANALYSIS	Sample 1	Sample 2
ABO forward and/or reverse grouping	✓	✓
RhD typing	✓	✓
Rh/K phenotyping	✓	✓
Antibody screening/identification	✓	✓

### Reagent Characteristics

	ABO	RH	K	FY	Antibodies	
<b>Sample 1</b>	A [ABO:1,-2,3]	ddccee (rr) [RH:-1,-2,-3,4,5]	K+ [KEL:1]	N/A	Anti-B [Anti-ABO2]	Anti-D 0.05 IU/ml [Anti-RH1]
<b>Sample 2</b>	B [ABO:-1,2,3]	DCcEe (R <sub>1</sub> R <sub>2</sub> ) [RH:1,2,3,4,5]	K- [KEL:-1]	Fy(a-) [FY:-1]	Anti-A [Anti-ABO1]	Anti-Fy <sup>a</sup> [Anti-FY1]

N/A: Not Applicable

## DiaMed Q.C. System

**DiaMed Q.C. System** contains 4 complete sets each consisting of red blood cells and serum.

Each set may be used for a maximum of 7 days.



### Ordering Information

Catalog # Description

#### **DiaMed Q.C. System**

For ID-System (automated and manual)

009930 Set of 4 x 2.6 ml red blood cells, 2 x 1 ml red blood cells and 2 x 2.5 ml sera (Id-n°: 45950), 1 Set

*Supplies on standing order, every 4 weeks*

ANALYSIS	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Serum 1	Serum 2
ABO forward and/or reverse grouping	✓	✓	✓	✓	✗	✗	✗	✗
RhD typing	✓	✓	✓	✓	✓	✓	✗	✗
Rh phenotyping	✓	✓	✓	✓	✓	✓	✗	✗
K phenotyping	✓	✓	✓	✓	✗	✗	✗	✗
Fy <sup>a</sup> phenotyping	✗	✗	✗	✗	✓	✓	✗	✗
Antibody screening/identification	✗	✗	✗	✗	✗	✗	✓	✓
Crossmatch	✗	✗	✗	✗	✓	✓	✓	✓

### Reagent Characteristics

	ABO	RH	K	FY	Antibodies	
<b>Sample 1</b>	O [ABO:-1,-2,-3]	ddccee (rr) [RH:-1,-2,-3,4,5]	K+ [KEL:1]	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	N/A
<b>Sample 2</b>	A [ABO:1,-2,3]	DCCeE (R <sub>1</sub> R <sub>2</sub> ) [RH:1,2,3,4,5]	K- [KEL:-1]	N/A	Anti-B [Anti-ABO2]	N/A
<b>Sample 3</b>	B [ABO:-1,2,3]	DCCee (R <sub>1</sub> R <sub>1</sub> ) [RH:1,2,-3,-4,5]	K- [KEL:-1]	N/A	Anti-A [Anti-ABO1]	N/A
<b>Sample 4</b>	O [ABO:-1,-2,-3]	DccEE (R <sub>2</sub> R <sub>2</sub> ) [RH:1,-2,3,4,-5]	K- [KEL:-1]	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	N/A
<b>Sample 5</b>	N/A	DCcee (R <sub>1</sub> r) [RH:1,2,-3,4,5]	N/A	Fy(a-) [FY:-1]	N/A	N/A
<b>Sample 6</b>	N/A	ddccee (rr) [RH:-1,-2,-3,4,5]	N/A	Fy(a+) [FY:1]	N/A	N/A
<b>Serum 1</b>	N/A	N/A	N/A	N/A	N/A	Anti-D 0.05 IU/ml [Anti-RH1]
<b>Serum 2</b>	N/A	N/A	N/A	N/A	N/A	Anti-Fy <sup>a</sup> [Anti-FY1]

N/A: Not Applicable

# DiaMed Quality Control Survey Basic

Easy-to-identify external quality control.



## Ordering Information

Catalog # Description

**DiaMed Quality Control Survey Basic**  
120405 Set of 2 x 5 ml red blood cells and 2 x 5 ml sera (Id-n°: 45530), 1 Set

*Supplies on request (8-10 weeks delivery time)*

## Result Table (example)

	Sample 1	Sample 2
Blood groups	A	O
A-subgroup	A <sub>1</sub>	-
Factor RhD	negative	negative
Rh-phenotype	ccdde; K+	Coddee; K-
Antibody screening	positive	negative
Direct Antiglobulin Test (DAT)	negative	negative

Antibody identification	Sample 1	Sample 2
1. Antibody	Anti-C	-
2. Antibody	-	-
3. Antibody	-	-

# DiaMed Quality Control Survey Advanced

Less easy-to-identify external quality control.



## Ordering Information

Catalog # Description

### DiaMed Quality Control Survey Advanced

120424 Set of 2 x 1 ml red blood cells (patients), 2 x 5 ml red blood cells (donors) and 2 x 5 ml sera (Id-n<sup>o</sup>: 45650), 1 Set

*Supplies on request (8-10 weeks delivery time)*

## Result Table (example)

Example	Donor 1 Cells	Donor 2 Cells	Patient A Cells	Patient B Cells
Blood groups with A-subgroup and special antigens	O K-; S+; s+	O K-; S-; s+	A <sub>1</sub> K-; S+; s+	O K-; S-; s+
Factor RhD with phenotype	CCD.ee	CcD.ee	CcD.Ee	CcD.ee
Direct Antiglobulin Test (DAT)	negative	negative	negative	negative

Antibody identification	Patient A Serum	Patient B Serum
1. Antibody	Anti-K	Anti-K
2. Antibody	-	Anti-S
3. Antibody	-	-

Compatibility test with: Donor 1	compatible	incompatible
Compatibility test with: Donor 2	compatible	compatible

## Notes

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