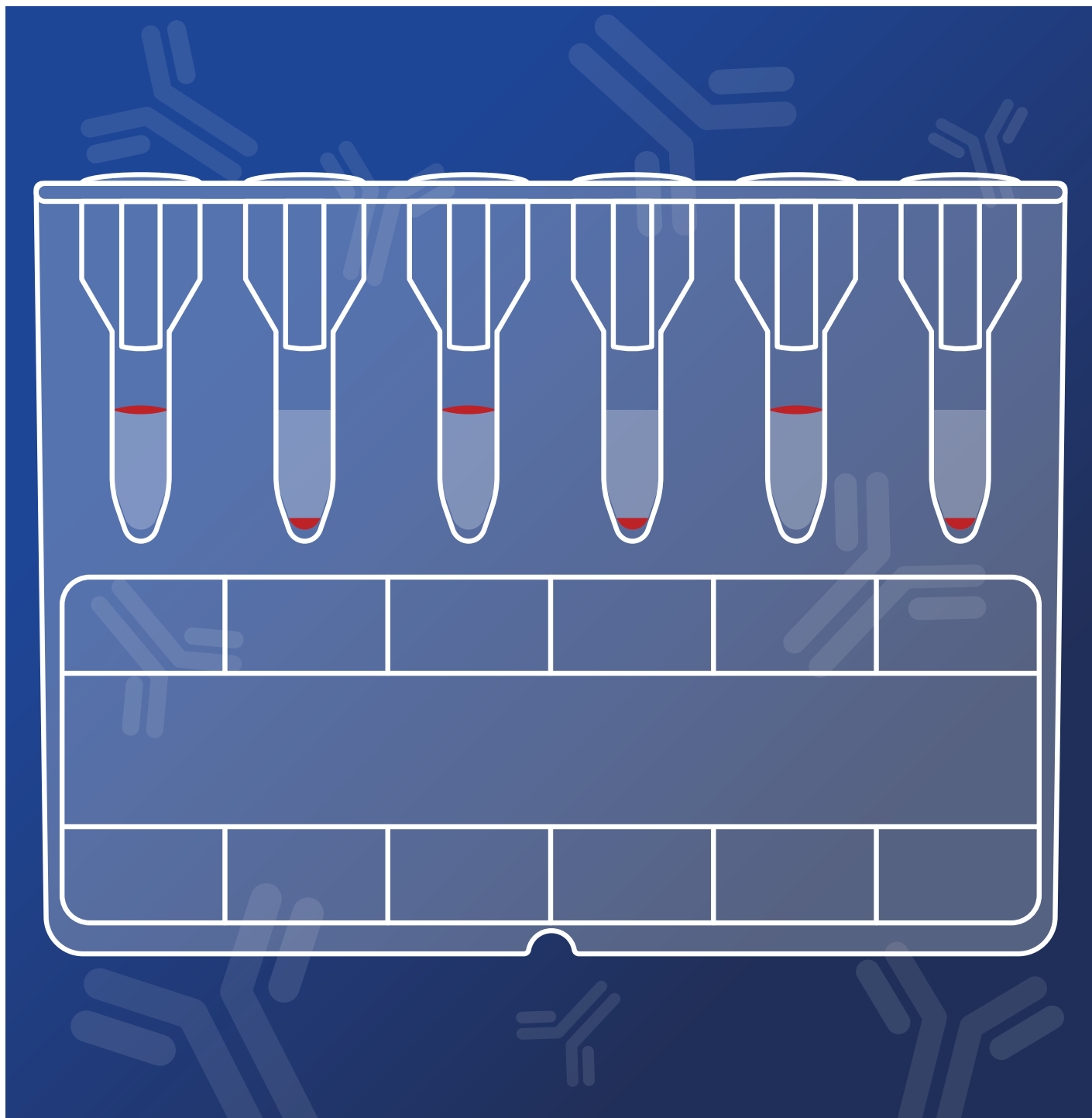


ID-System

Product Catalog





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ID-System

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*Some products may not be available in your region.
For further information, please contact your local representative.*

Blood Grouping ABO/D with Monoclonal Antibodies

Frequencies of the different ABO blood groups, according to Reid ME et al. (2012), 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, a DVI patient's red cells should be assigned RhD negative status.

Conversely, donor blood 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

The ID-Card **DiaClon ABO/Rh for Patients** offers a complete test profile for forward grouping of ABO, RhD (DVI neg.) and CDE in one single test profile.

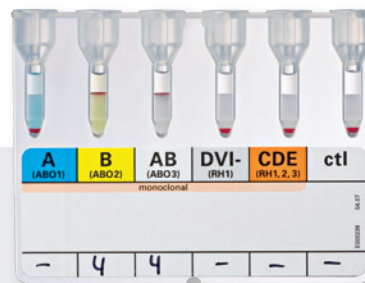
Ordering Information

Catalog # Description

DiaClon ABO/Rh for Patients

001044	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) 48 profiles , 4 x 12
001043	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) 288 profiles , 24 x 12
001045	A, B, AB, DVI-, CDE, ctl (Id-n°: 50012) 1,344 profiles , 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.

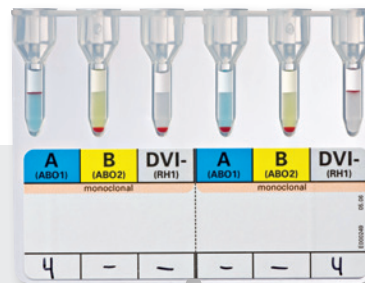
Ordering Information

Catalog # Description

DiaClon ABD-Confirmation for Patients

001254	A, B, DVI-, A, B, DVI- (Id-n°: 50053) 96 profiles , 4 x 12
001257	A, B, DVI-, A, B, DVI- (Id-n°: 50053) 576 profiles , 24 x 12
001255	A, B, DVI-, A, B, DVI- (Id-n°: 50053) 2,688 profiles , 112 x 12

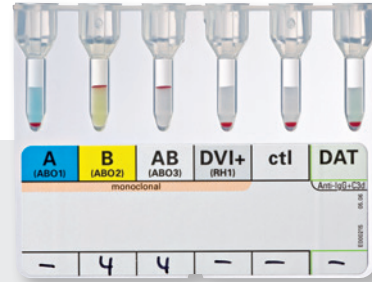
Cell lines: **A:** LM297/628 (LA-2), **B:** LM306/686 (LB-2), **D:** TH28, RUM-1, LDM1



DiaClon ABO/Rh for Newborns DVI+

The ID-Card **DiaClon ABO/Rh for Newborns DVI+** contains monoclonal antibodies.

The anti-D used will not react with all examples of weak D.



Ordering Information

Catalog # Description

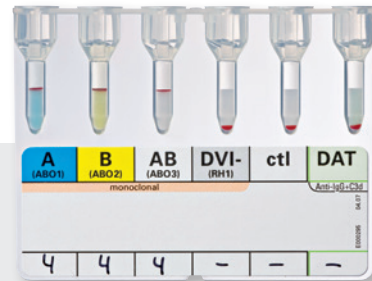
DiaClon ABO/Rh for Newborns DVI+

001047 A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) **48 profiles**, 4 x 12
 001048 A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) **288 profiles**, 24 x 12
 001050 A, B, AB, DVI+, ctl, DAT (ld-n°: 50961) **1,344 profiles**, 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 **DiaClon ABO/Rh for Newborns DVI-** has been selected to not react with variant DVI.



Ordering Information

Catalog # Description

DiaClon ABO/Rh for Newborns DVI-

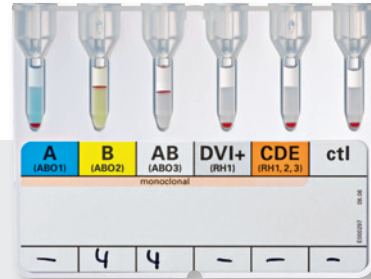
001027 A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) **48 profiles**, 4 x 12
 001030 A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) **288 profiles**, 24 x 12
 001029 A, B, AB, DVI-, ctl, DAT (ld-n°: 50071) **1,344 profiles**, 112 x 12

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 grouping of ABO, RhD and CDE in one single test procedure.

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



Ordering Information

Catalog # Description

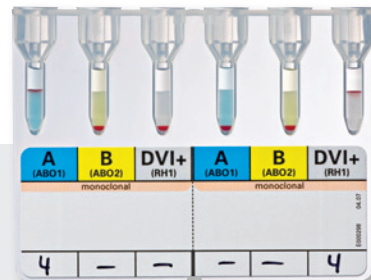
DiaClon ABO/Rh for Donors

001037	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011) 48 profiles , 4 x 12
001033	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011) 288 profiles , 24 x 12
001038	A, B, AB, DVI+, CDE, ctl (ld-n°: 51011) 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, **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) 96 profiles , 4 x 12
001133	A, B, DVI+/A, B, DVI+ (ld-n°: 51051) 576 profiles , 24 x 12
001135	A, B, DVI+/A, B, DVI+ (ld-n°: 51051) 2,688 profiles , 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. All antibodies in this ID-Card are monoclonal.

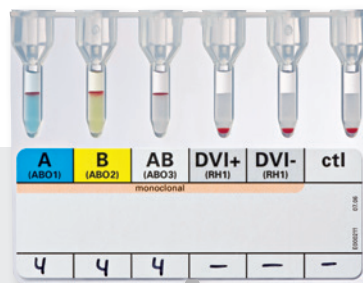
Ordering Information

Catalog # Description

DiaClon ABO/D

001324 **A, B, AB, DVI+, DVI-, ctl** (Id-n°: 50481) **48 profiles**, 4 x 12
 001323 **A, B, AB, DVI+, DVI-, ctl** (Id-n°: 50481) **288 profiles**, 24 x 12
 001325 **A, B, AB, DVI+, DVI-, ctl** (Id-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 grouping and RhD status can be obtained in one single procedure, including a Direct Antiglobulin 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.

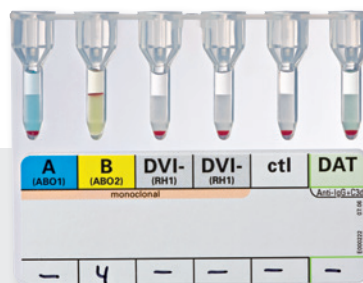
Ordering Information

Catalog # Description

DiaClon ABO/D + DAT

001344 **A, B, DVI-, DVI-, ctl, DAT** (Id-n°: 50492) **48 profiles**, 4 x 12
 001347 **A, B, DVI-, DVI-, ctl, DAT** (Id-n°: 50492) **288 profiles**, 24 x 12
 001345 **A, B, DVI-, DVI-, ctl, DAT** (Id-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/DVI- for Patients

This ID-Card is used for ABO forward grouping and double RhD determination for patients as well as for newborns.

Please note that certain guidelines require the detection of DVI for newborns.

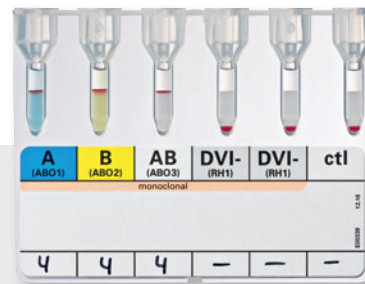
Ordering Information

Catalog # Description

DiaClon ABO/DVI- for Patients

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



Testing protocols for both patients and newborns

DiaClon ABO/DVI-

This ID-Card is used for ABO forward grouping and double RhD determination for patients as well as for newborns.

Please note that certain guidelines require the detection of DVI for newborns.

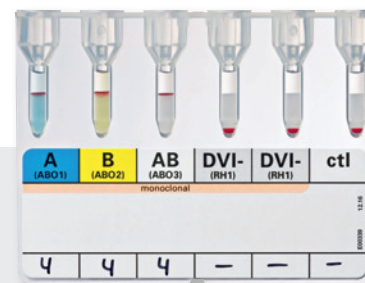
Ordering Information

Catalog # Description

DiaClon ABO/DVI-

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



Testing protocols for both patients and newborns

DiaClon ABO/DVI+/DVI- + DAT

With the ID-Card **DiaClon ABO/DVI+/DVI- + DAT** a complete profile for ABO forward grouping and RhD status can be obtained in one single test procedure, including a Direct Antiglobulin Test (DAT).

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

The test procedure may therefore be used for both patients and donors.

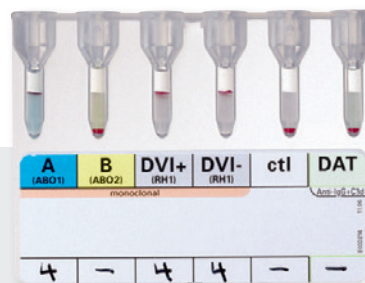
Ordering Information

Catalog # Description

DiaClon ABO/DVI+/DVI- + DAT

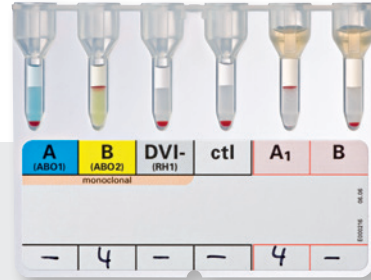
001374 **A, B, DVI+, DVI-, ctl, DAT** (Id-n°: 51160) **48 profiles**, 4 x 12

Cell lines: **A:** A5, **B:** G1/2, **D:** ESD-1M, 175-2, **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 A₁ and B cells.



Ordering Information

Catalog # Description

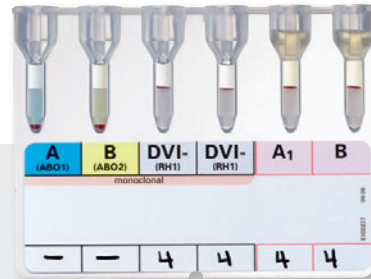
DiaClon ABO/D + Reverse Grouping

001234 A, B, DVI-, ctl/A₁, B (ld-n°: 50092) **48 profiles**, 4 x 12
 001237 A, B, DVI-, ctl/A₁, B (ld-n°: 50092) **288 profiles**, 24 x 12
 001235 A, B, DVI-, ctl/A₁, 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

The ID-Card **DiaClon ABO/D + Reverse Grouping** allows combined testing of forward and reverse grouping as well as a double RhD determination with two anti-D selected to not detect the variant DVI.



Ordering Information

Catalog # Description

DiaClon ABO/D + Reverse Grouping

001249 A, B, DVI-, DVI-, A₁, B (ld-n°: 50742) **1,344 profiles**, 112 x 12

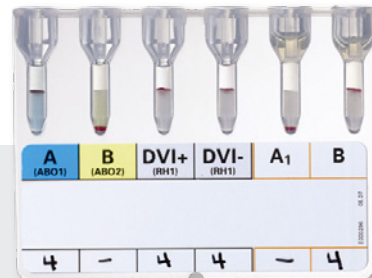
Cell lines: **A:** A5, **B:** LB-2, **D:** LHM 50/3 (LDM1), TH-28, RUM-1, **D:** LHM 59/20 (LDM3), 175-2

DiaClon ABO/D (DVI+, DVI-) + Reverse Grouping

The ID-Card **DiaClon ABO/D (DVI+, DVI-) + Reverse Grouping** allows combined testing of forward and reverse grouping as well as a double RhD determination.

The first anti-D is selected for detecting the variant DVI, the second anti-D is selected to be negative for the variant DVI.

The test procedure may therefore be used for both patients and donors.



Ordering Information

Catalog # Description

DiaClon ABO/D (DVI+, DVI-) + Reverse Grouping

001386 A, B, DVI+, DVI-, A₁, B (Id-n°: 50981) **720 profiles**, 60 x12

Cell lines: **A:** A5, **B:** G1/2, **D:** ESD-1M, 175-2, **D:** LHM 50/3 (LDM1), TH-28, RUM-1

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 to react with variant DVI.



Ordering Information

Catalog # Description

DiaClon ABO/D + Reverse Grouping for Donors

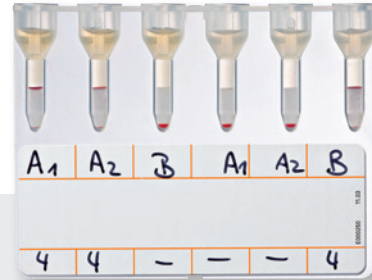
12010791 A, B, DVI+, cti/A₁, B (Id-n°: 51090) **48 profiles**, 4 x 12

001365 A, B, DVI+, cti/A₁, B (Id-n°: 51090) **1,344 profiles**, 112 x 12

Cell lines: **A:** A5, **B:** G1/2, **D:** ESD-1M, 175-2

NaCl, Enzyme Test and Cold Agglutinins

The **ID-Card NaCl, Enzyme Test and Cold Agglutinins** is suitable for reverse grouping in any combination with **ID-DiaCell ABO** Reagent Red Blood Cells and any ABO ID-Card for forward grouping for manual use as well as on instruments.



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
 005015 **6 x tests** (Id-n°: 50520) **8,064 profiles**, 112 x 12

Phenotyping Rh/K

Besides the RhD antigen, other important antigens of the Rh Blood Group System are: C, E, c and e. According to Reid ME et al. (2012), 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.

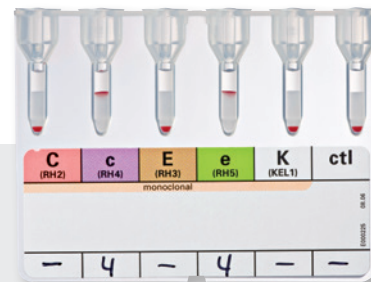
Ordering Information

Catalog # Description

DiaClon Rh-Subgroups + K

002124	C, c, E, e, K, ctl (Id-n°: 50110) 48 profiles , 4 x 12
002127	C, c, E, e, K, ctl (Id-n°: 50110) 288 profiles , 24 x 12
002125	C, c, E, e, K, ctl (Id-n°: 50110) 1,344 profiles , 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.

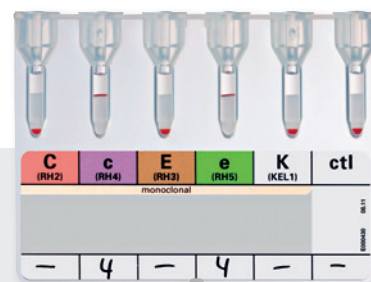
Ordering Information

Catalog # Description

DiaClon Rh + K Pheno II

002224	C, c, E, e, K, ctl (Id-n°: 50710) 48 profiles , 4 x 12
002227	C, c, E, e, K, ctl (Id-n°: 50710) 288 profiles , 24 x 12
002225	C, c, E, e, K, ctl (Id-n°: 50710) 1,344 profiles , 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^w + K

The ID-Card **DiaClon Rh-Subgroups + C^w + K** is designed for the determination of the presence or absence of the C (RH2), C^w (RH8), c (RH4), E (RH3), e (RH5) and K (KEL1) antigens on human Red Blood Cells, for manual use as well as on instruments.

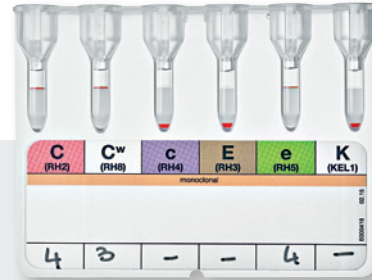
Ordering Information

Catalog # Description

DiaClon Rh-Subgroups + C^w + K

002134 C, C^w, c, E, e, K (ld-n°: 52000) **48 profiles**, 4 x 12
 002137 C, C^w, c, E, e, K (ld-n°: 52000) **288 profiles**, 24 x 12
 002135 C, C^w, c, E, e, K (ld-n°: 52000) **1,344 profiles**, 112 x 12

Cell lines: **C**: MS-273, P3x25513G8, **C^w**: 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^w + K** and **DiaClon Anti-C^w**.

Ordering Information

Catalog # Description

Control Card A

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



DiaClon RhD + Phenotype

This ID-Card offers a complete profile of the Rh phenotype and the monoclonal anti-D reagent has been selected to not react with variants DVI.

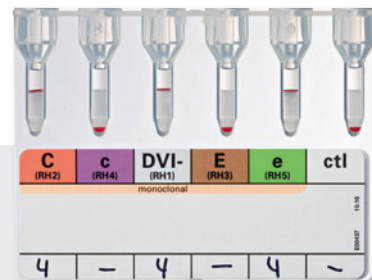
Ordering Information

Catalog # Description

DiaClon RhD + Phenotype

002234 C, c, DVI-, E, e, ctl (ld-n°: 52030) **48 profiles**, 4 x 12
 002237 C, c, DVI-, E, e, ctl (ld-n°: 52030) **288 profiles**, 24 x 12

Cell lines: **C**: MS-273, P3x25513G8, **c**: 951, **D**: LHM 50/3.5 (LDM1), TH-28, RUM-1, **E**: MS-80, MS-258, **e**: MS-62, P3GD512



A Subgroups

The reagent **Anti-A₁ Absorbed** agglutinates A₁ cells but reacts negatively or only weakly with A₂ cells.

Approximately 80% of group A or AB individuals have Red Blood Cells that are agglutinated by anti-A₁ and are thus classified as A₁ or A₁B.

Anti-A₁ Absorbed

ID-Card with 6 microtubes containing anti-A₁, human, within the gel matrix.

Ordering Information

Catalog #	Description
Anti-A₁ Absorbed 001811	6 x A₁ (Id-n°: 50140) human 72 tests , 1 x 12



The H antigen is present on all human Red Blood Cells, except those with the phenotype O^h (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-A₁.

DiaClon Anti-H

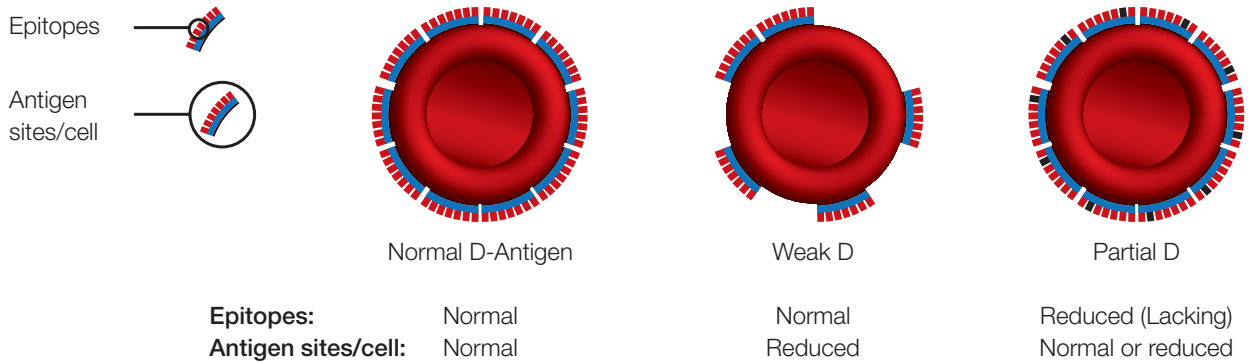
ID-Card with 6 microtubes containing anti-H, monoclonal, within the gel matrix.

Ordering Information

Catalog #	Description
DiaClon Anti-H 001911	6 x H (Id-n°: 50150) 72 tests , 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 reagents that help further characterize the RhD antigen after routine RhD typing. The kit also contains 12 ID-Cards.

The reagents help with the differentiation of categories DII, DIV, DV, DVI, DVII, DFR, DBT and R₀^{Har}.



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.

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.

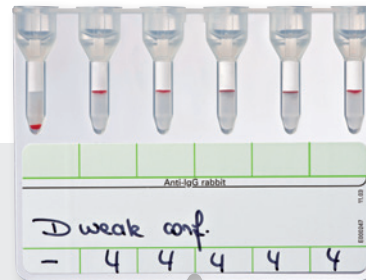


Ordering Information

Catalog #	Description
ID-DiaClon Anti-D	
007531	(Id-n°: 09410) ESD1 100 tests , 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
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
004025	6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit 8,064 tests , 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
004015	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 8,064 profiles , 112 x 12

C3d: cell line C139-9

ABO and RhD compatible blood is used for transfusion. In certain cases, Rh phenotypes and the status of the Kell (KEL) Blood Group System are also taken into account.

Antigens from other Blood Group Systems 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.

New

DiaClon Antigen Profile I

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

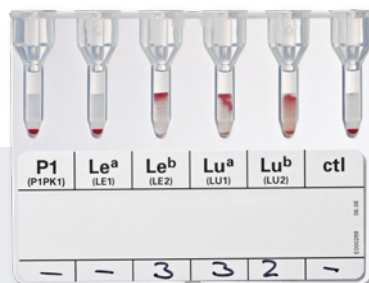
Ordering Information

Catalog # Description

DiaClon Antigen Profile I

12019315 **P1, Le^a, Le^b, Lu^a, Lu^b, ctl** (Id-n°: 50373) **12 profiles**, 1 x 12

Cell lines: **P1**: 650, **Le^a**: P3N20V3 + LM112/161, **Le^b**: LM129/181, **Lu^a**: SpM78Dc6, **Lu^b**: LU2



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 Blood Cell suspension (in **ID-Diluent 1**).

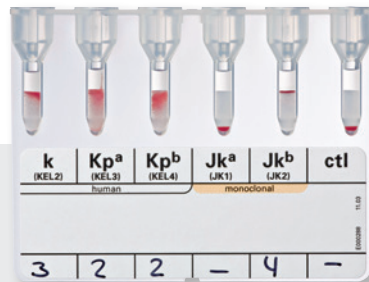
Ordering Information

Catalog # Description

ID-Antigen Profile II

008610 **k, Kp^a, Kp^b, Jk^a, Jk^b, ctl** (Id-n°: 50380) **12 profiles**, 1 x 12

Cell lines: **Jk^a**: MS-15, **Jk^b**: MS-8
k/Kp^a/Kp^b 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 Blood Cell suspension (in **ID-Diluent 2**).



Ordering Information

Catalog # Description

ID-Antigen Profile III

008701 **ID-Card: M, N, S, s, Fy^a, Fy^b** (Id-n°: 50390) **12 profiles**, 1 x 12

008712 **Test sera ID-M, N, S, s, Fy^a, Fy^b** (Id-n°: 45460) **90 profiles**, 6 x 5 ml

M/N monoclonal antibodies

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

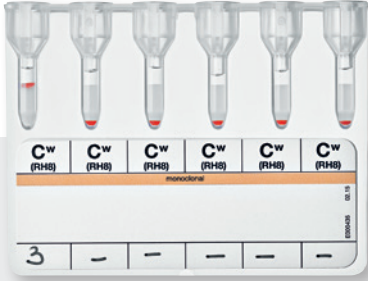
S/s/Fy^a/Fy^b human antibodies

DiaClon Anti-C^w

The ID-Card **DiaClon Anti-C^w** is designed for the determination of the presence or absence of the C^w antigen (RH8) on human Red Blood Cells, for manual use as well as on instruments.

Ordering Information

Catalog #	Description
DiaClon Anti-C^w	
001321	6 x C ^w (ld-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^w** and **DiaClon Rh-Subgroups + C^w + K**.

Ordering Information

Catalog #	Description
Control Card A	
001711	6 x ctl (ld-n°: 52020) 72 tests , 1 x 12
001714	6 x ctl (ld-n°: 52020) 288 tests , 4 x 12



Single Antigen Testing

The Kell (KEL) Blood Group 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 ME et al. (2012), 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 (KEL) Blood Group 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.

DiaClon Anti-K

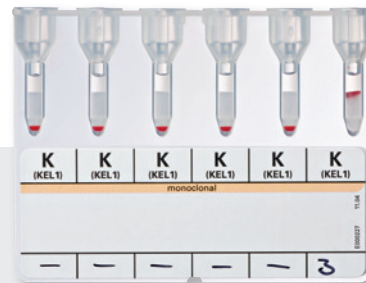
Ordering Information

Catalog # Description

DiaClon Anti-K

002121 6 x K (Id-n°: 50200) **72 tests**, 1 x 12

Cell line: MS-56



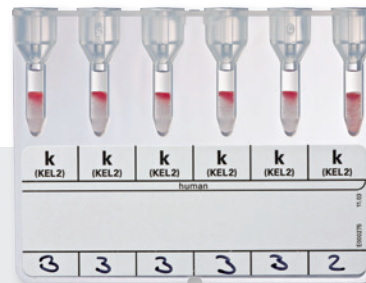
Anti-k

Ordering Information

Catalog # Description

Anti-k

007251 6 x k (Id-n°: 50260) human **72 tests**, 1 x 12



M (MNS1) and N (MNS2) antigenic determinants are carried on glycoprotein A (GPA), one of the major sialic acid containing structures of the Red Blood Cell membrane.

According to Reid ME et al. (2012), the phenotype frequencies of the MNS Blood Group 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-nº: 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-nº: 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-nº: 51210) **24 tests**, 1 x 12
 Cell lines: **M**: 9211 9D5 1G10, **N**: 1422 C7+MN879



Single Antigen Testing

According to Reid ME et al. (2012), the phenotype frequencies in the Caucasian population are:

Phenotype	Antigens	Frequency
P ₁	PP ^k	79%
P ₂	PP ^k	21%
ρ	-	very rare
P ₁ ^k	P ^k P ^k	very rare
P ₂ ^k	P ^k	very rare

DiaClon Anti-P₁

Ordering Information

Catalog # Description

DiaClon Anti-P₁

007212 6 x P₁ (Id-nº: 51180) **72 tests**, 1 x 12

Cell line: 650



Lewis antigens are absent or only poorly expressed on Red Blood Cells from newborns. According to Reid ME et al. (2012), 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^a

Ordering Information

Catalog # Description
DiaClon Anti-Le^a
 007221 6 x Le^a (Id-n°: 50242) **72 tests**, 1 x 12
 Cell lines: P3N20V3 + LM112/161



DiaClon Anti-Le^b

Ordering Information

Catalog # Description
DiaClon Anti-Le^b
 007231 6 x Le^b (Id-n°: 50250) **72 tests**, 1 x 12
 Cell lines: LM129/181 (LB1)



DiaClon Anti-Le^a/Le^b

Ordering Information

Catalog # Description
DiaClon Anti-Le^a/Le^b
 006041 Le^a, Le^b, ctl/Le^a, Le^b, ctl (Id-n°: 51241) **24 tests**, 1 x 12
 Cell lines: **Le^a**: P3N20V3 + LM112/161, **Le^b**: LM129/181 (LB1)



Single Antigen Testing

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

According to Reid ME et al. (2012), the phenotype frequency of the antithetical Kidd antigens Jk^a and Jk^b 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^a

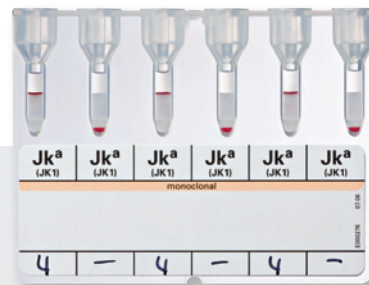
Ordering Information

Catalog # Description

DiaClon Anti-Jk^a

007321 6 x Jk^a (Id-n°: 50270) 72 tests, 1 x 12

Cell line: MS-15



DiaClon Anti-Jk^b

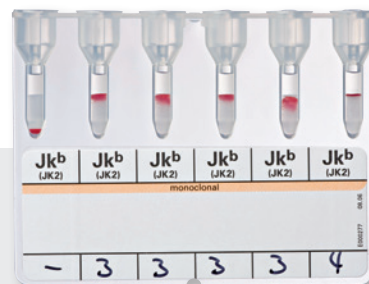
Ordering Information

Catalog # Description

DiaClon Anti-Jk^b

007331 6 x Jk^b (Id-n°: 50280) 72 tests, 1 x 12

Cell line: MS-8



DiaClon Anti-Jk^a/Jk^b

Ordering Information

Catalog # Description

DiaClon Anti-Jk^a/Jk^b

006051 Jk^a, Jk^b, ctl/Jk^a, Jk^b, ctl (Id-n°: 51250) 24 tests, 1 x 12

Cell lines: Jk^a: MS-15, Jk^b: MS-8



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

Anti-Kp^a and anti-Kp^b 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.

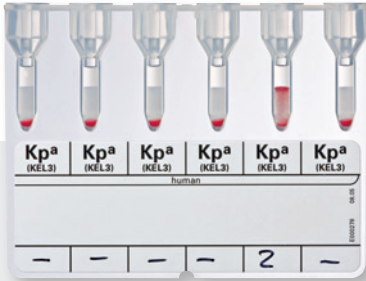
According to Reid ME et al. (2012), the phenotype frequency in the Caucasian population of the two most important antigens is as follows:

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

Anti-Kp^a

Ordering Information

Catalog #	Description
Anti-Kp^a 007301	6 x Kp ^a (Id-n°: 50290) human 72 tests , 1 x 12



Anti-Kp^b

Ordering Information

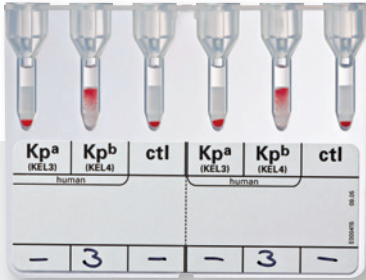
Catalog #	Description
Anti-Kp^b 007311	6 x Kp ^b (Id-n°: 50300) human 72 tests , 1 x 12



Anti-Kp^a/Kp^b

Ordering Information

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



Single Antigen Testing

Antibodies against antigens in the Lutheran Blood Group 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^a has not been implicated in transfusion reactions and only rarely as causing mild hemolytic disease of the fetus and newborn (HDFN). Allo anti-Lu^b has been implicated in mild to moderate transfusion reactions and mild HDFN.

According to Reid ME et al. (2012), the phenotype frequency of the Lutheran Blood Group 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

New

DiaClon Anti-Lu^a

Ordering Information

Catalog # Description

DiaClon Anti-Lu^a

12019327 6 x Lu^a (Id-n°: 50311) 72 tests, 1 x 12

Cell line: SpM78Dc6



New

DiaClon Anti-Lu^b

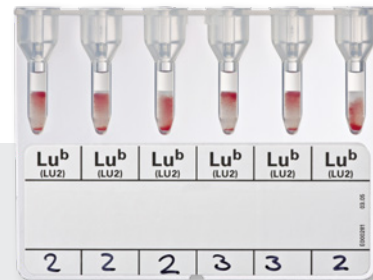
Ordering Information

Catalog # Description

DiaClon Anti-Lu^b

12019343 6 x Lu^b (Id-n°: 50321) 72 tests, 1 x 12

Cell line: LU2



The antigens S (MNS3) and s (MNS4) are carried on the human glycoprotein B (GPB) molecule and are part of the MNS Blood Group 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 blood may therefore also be appropriate, according to the clinical situation.

According to Daniels G (1995), 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
007132	Test serum ID-Anti-S (Id-n°: 09010) human 90 tests , 1 x 5 ml



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

Ordering Information

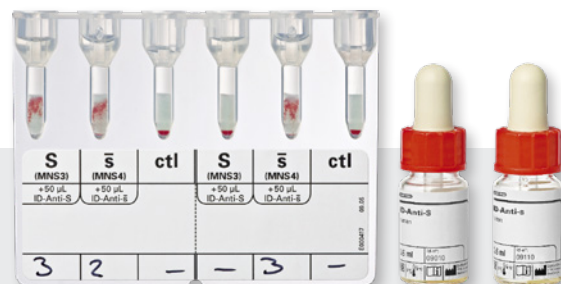
Catalog #	Description
ID-Card s, ID-Anti-s	
007140	ID-Card s: 6 x s (Id-n°: 50340) 72 tests , 1 x 12
007142	Test serum ID-Anti-s (Id-n°: 09110) human 90 tests , 1 x 5 ml



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
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



Single Antigen Testing

Both Duffy antigens are fully developed at birth. Fy^a frequently causes immunization while Fy^b is rarely the cause of immunization. Anti-Fy^a and anti-Fy^b 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 ME et al. (2012), the phenotype frequency of the Duffy Blood Group System is as follows:

	Caucasian	Black	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^a ID-Card Fy^a, Test Serum ID-Anti-Fy^a

Ordering Information

Catalog #	Description
ID-Card Fy^a, ID-Anti-Fy^a	
007270	ID-Card Fy^a: 6 x Fy^a (Id-n°: 50350) 72 tests, 1 x 12
007272	Test serum ID-Anti-Fy^a (Id-n°: 09210) human 90 tests, 1 x 5 ml



Test of Antigen Fy^b ID-Card Fy^b, Test Serum ID-Anti-Fy^b

Ordering Information

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



Test of Antigen Fy^a and Fy^b, ID-Card Fy^a/Fy^b, Test Serum ID-Anti-Fy^a/Fy^b



Ordering Information

Catalog # Description

ID-Card Fy^a/Fy^b, ID-Anti-Fy^a/Fy^b

006110 ID-Card Fy^a/Fy^b: Fy^a, Fy^b, ctl/Fy^a, Fy^b, ctl (ld-n°: 51270) **24 tests**, 1 x 12

007272 Test serum ID-Anti-Fy^a (ld-n°: 09210) human **90 tests**, 1 x 5 ml

007282 Test serum ID-Anti-Fy^b (ld-n°: 09310) human **90 tests**, 1 x 5 ml

Di^a is a low prevalence antigen, antithetical to Di^b and both antigens belong to the Diego Blood Group System.

Anti-Di^a may be responsible for severe transfusion reactions and hemolytic disease of the fetus and newborn (HDFN).

According to Reid ME et al. (2012), the Di^a antigen occurrence is from 0.01% in most population and can be up to 54% in South American Indians.

Bio-Rad ID-Anti-Di^a test sera for use by Indirect Antiglobulin Test (IAT) with the ID-Card **LISS/Coombs** is from human sera containing incomplete antibodies.

ID-Anti-Di^a

Ordering Information

Catalog # Description

ID-Anti-Di^a

007420 ID-Anti-Di^a: vial (ld-n°: 09080) **10 tests**, 1 x 0.5 ml

According to availability



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 Blood 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
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 Blood 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
004025	6 x AHG (Anti-IgG) (Id-n°: 50540) rabbit 8,064 tests , 112 x 12



A positive Direct Antiglobulin Test (DAT) with polyspecific anti-human globulin (AHG) generally indicates that the Red Blood 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

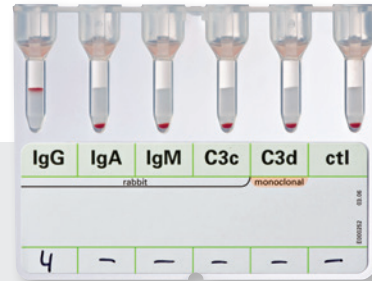
Ordering Information

Catalog #	Description
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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

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



DC-Screening II

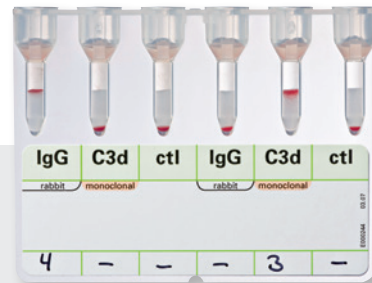
Ordering Information

Catalog #	Description
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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

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



DAT IgG-Dilution

The numbers of IgG molecules per cell influence the accelerated Red Blood 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

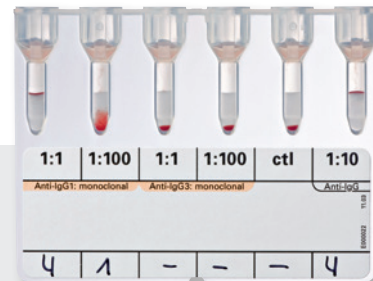
004033 1:10, 1:30, 1:100, 1:300, 1:1,000, ctl (Id-n°: 50870) rabbit 12 profiles, 1 x 12

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) **48 profiles**, 4 x 12
 004707 4 x AHG tests/2 x enzyme tests (Id-n°: 50571) **288 profiles**, 24 x 12
 004705 4 x AHG tests/2 x enzyme tests (Id-n°: 50571) **1,344 profiles**, 112 x 12

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



LISS/Coombs

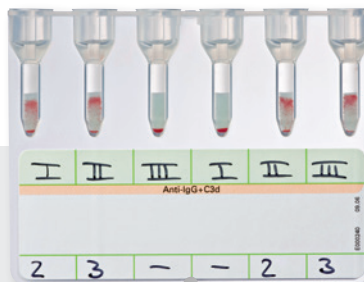
Ordering Information

Catalog # Description

LISS/Coombs

004014 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit **288 profiles**, 4 x 12
 004017 6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit **1,728 profiles**, 24 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



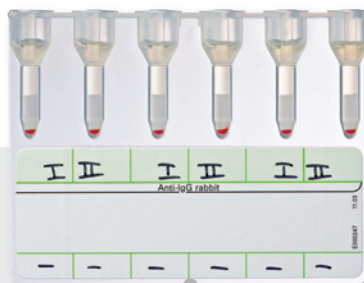
Coombs Anti-IgG

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
 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.



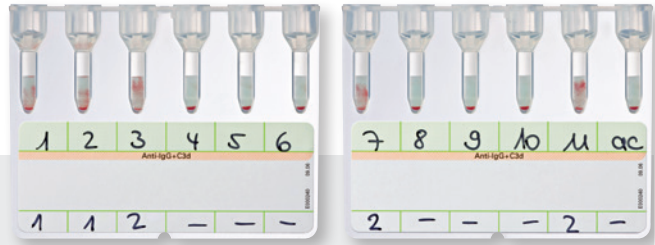
Ordering Information

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
005015	6 x tests (Id-n°: 50520) 8,064 profiles , 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
- 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
- 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
- 005015 6 x tests (Id-n°: 50520) **8,064 profiles**, 112 x 12

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 **DiaClon 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 Antiglobulin Test (IAT)
- Major enzyme crossmatch test
- Autocontrol (IAT test)

DiaClon Complete Crossmatch

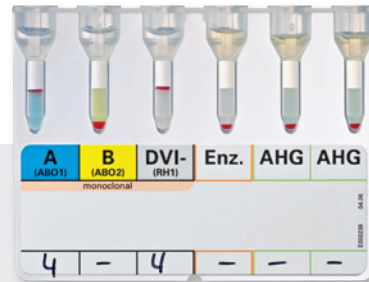
Ordering Information

Catalog # Description

DiaClon Complete Crossmatch

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

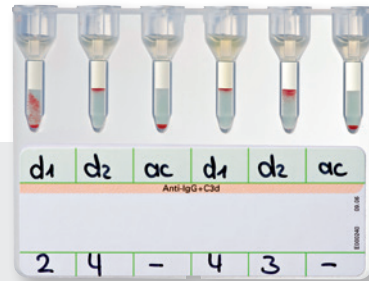
Ordering Information

Catalog # Description

LISS/Coombs

004014	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 288 profiles , 4 x 12
004017	6 x AHG (Anti-IgG + C3d) tests (Id-n°: 50531) rabbit 1,728 profiles , 24 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



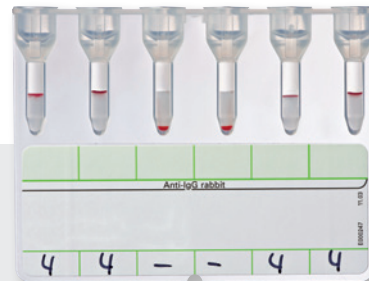
Coombs Anti-IgG

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
004025	6 x AHG (Anti-IgG) tests (Id-n°: 50540) rabbit 8,064 profiles , 112 x 12



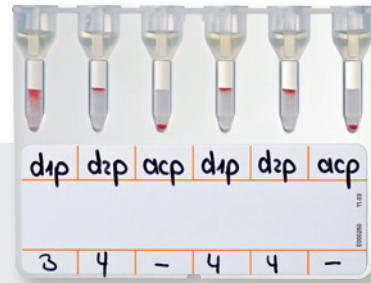
NaCl, Enzyme Test and Cold Agglutinins

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
005015	6 x tests (Id-nº: 50520) 8,064 profiles , 112 x 12



To ensure that appropriate therapeutic measures are instigated, DVI patients' Red Blood Cells should be assigned Rh negative status. Conversely, donor blood 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.

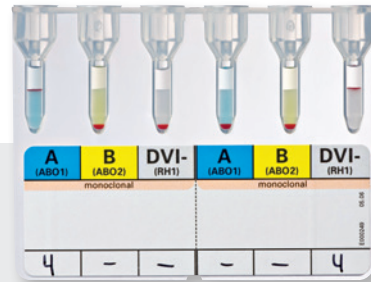
Ordering Information

Catalog # Description

DiaClon ABD-Confirmation for Patients

001254	A, B, DVI-/A, B, DVI- (Id-nº: 50053) 96 profiles , 4 x 12
001257	A, B, DVI-/A, B, DVI- (Id-nº: 50053) 576 profiles , 24 x 12
001255	A, B, DVI-/A, B, DVI- (Id-nº: 50053) 2,688 profiles , 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.

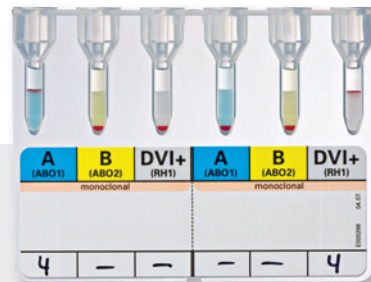
Ordering Information

Catalog # Description

DiaClon ABD-Confirmation for Donors

001134	A, B, DVI+/A, B, DVI+ (Id-nº: 51051) 96 profiles , 4 x 12
001133	A, B, DVI+/A, B, DVI+ (Id-nº: 51051) 576 profiles , 24 x 12
001135	A, B, DVI+/A, B, DVI+ (Id-nº: 51051) 2,688 profiles , 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 Blood Cells for blood grouping, antigen typing and as an additive for enzyme tests with untreated Red Blood Cells for antibody detection and crossmatching.



Ordering Information

Catalog # Description

ID-Diluent 1

009160 Modified Bromelin solution for Red Blood Cell suspensions and enzyme tests (Id-n°: 05751), 2 x 100 ml

ID-Diluent 1 rack for IH-Analyzers

009190 Modified Bromelin solution for Red Blood 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 Blood Cell suspensions for blood grouping as well as 0.8% Red Blood Cell suspensions for crossmatching, autocontrol, direct anti-human globulin test, blood grouping of newborns, antigen typing and test cells prepared in the laboratory.



Ordering Information

Catalog # Description

ID-Diluent 2

009260 Modified LISS for Red Blood Cell suspensions (Id-n°: 05761), 2 x 100 ml

009280 Modified LISS for Red Blood Cell suspensions (Id-n°: 05761), 1 x 500 ml

ID-Diluent 2 rack for IH-Analyzers

009290 Modified LISS for Red Blood 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 Blood Cells at 0.8% suspension for use in the ID-System for up to 4 weeks after preparation.



Ordering Information

Catalog # Description

ID-CellStab

005650 Stabilisation solution for Red Blood Cells (Id-n°: 05740), 1 x 500 ml

005660 Stabilisation solution for Red Blood Cells (Id-n°: 05740), 2 x 100 ml

ID-CellWash-P

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



Ordering Information

Catalog # Description

ID-CellWash-P
005550 Wash solution for papainized Red Blood 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 Blood Cells by laboratories that prepare their own Red Blood Cell reagents, or may be used as an enzyme additive reagent in a one stage technique.



Ordering Information

Catalog # Description

ID-Papain
005510 Papain solution for papainizing Red Blood Cells (Id-n°: 06311), 1 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/or donor samples with the ID-System.

Combined with **ID-Titration Rack**, **ID-Titration Solution** can be used with the IH-500 System 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.



Ordering Information

Catalog # Description

ID-Titration Solution

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

ID-Titration Rack

009390 **Empty racks for the use on the IH-500 System** (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



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
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ID-DiaCell ABO

003619	Set of 4 vials A₁, A₂, B, O (Id-n°: 45022) 200 tests , 4 x 10 ml
003615	Set of 3 vials A₁, B, O (Id-n°: 45352) 200 tests , 3 x 10 ml
003624	Set of 2 vials A₁, B (Id-n°: 45092) 200 tests , 2 x 10 ml
003621	Single vial: A₂ (Id-n°: 06022) 200 tests , 1 x 10 ml
003623	Single vial: O (Id-n°: 06042) 200 tests , 1 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 ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	F/M	
I	C ^w CD.ee	R ₁ ^w R ₁	675479	+	+	0	0	+	+	0	+	0	+	0	+	+	+	0	0	0	+	+	0	+	0	+	+	+	F	
II	ccD.EE	R ₂ R ₂	001251	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	+	+	+	+	M	
III	ccddee	rr	060556	0	0	0	+	+	0	+	+	0	+	0	+	0	+	0	+	+	+	+	+	0	0	+	+	M		
IV	CCD.ee	R ₁ R ₁	887567	+	+	0	0	+	0	0	+	+	+	0	+	+	0	+	+	+	+	0	0	+	0	+	0	M		
V	C ^w CD.ee	R ₁ ^w R ₁	928899	+	+	0	0	+	+	+	+	0	+	0	+	+	0	+	+	+	+	+	+	+	0	+	+	F		
VI	ccD.EE	R ₂ R ₂	158648	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	0	+	+	+	0	+	+	+	+	M		

Antigen tables are available electronically on ih-area.bio-rad.com and a printed version is provided with the products.

Fixed Rh Pattern I-III: R₁^wR₁/R₂R₂/rr

Four blood group O Red Blood Cells: Cell I: R ₁ ^w R ₁ (CCDee), C ^w + Cell II: R ₂ R ₂ (ccDEE) Cell III: rr (ccee) Cell IV: (flexible Rh)	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 ^a , Fy ^b , Jk ^a , Jk ^b , 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 ^a , C ^w and Lu ^a positive	Additional security and convenience
At least one cell positive for Le ^a , Le ^b , P ₁ and N	

Fixed Rh Pattern V-VI: R₁^wR₁, R₂R₂

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

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

ID-DiaScreen

004316 Set of 6 vials for IAT and enzyme test I, II, III, IV, V, VI
 $R_1^y R_1, R_2 R_2, rr$, flexible Rh/ $R_1^y R_1, R_2 R_2$ papainized (ld-n°: 45070) **200 tests**, 6 x 10 ml

004311 Set of 4 vials for IAT, I, II, III, IV
 $R_1^y R_1, R_2 R_2, rr$, flexible Rh (ld-n°: 45200) **200 tests**, 4 x 10 ml

Stability 7 weeks, shipment on standing order every 4 weeks

ID-DiaScreen Prophylax

The **ID-DiaScreen Prophylax**, though primarily for screening maternal samples after anti-D prophylaxis, is also very useful in immune anti-D investigations to aid detection/identification of further atypical alloantibodies.

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 $Fy^a, Fy^b, Jk^a, Jk^b, M, S$ and s
- At least one cell positive for K, Le^a, Le^b, P_1 and N
- Tested by serology for HLA Class I antigens



Ordering Information

Catalog # Description

ID-DiaScreen Prophylax

004330 Set of 6 vials for IAT $R_1 R_2, r^1 r, r^2 r, rr, rr$ (ld-n°: 45660) **100 tests**, 6 x 5 ml

Stability 7 weeks, shipment on standing order every 4 weeks

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 ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	F/M		
I	C ^w CD.ee	R ₁ R ₁	754456	+	+	0	0	+	+	0	+	0	+	0	+	+	+	0	+	+	0	+	+	0	+	0	+	0	+	0	M
II	ccD.EE	R ₂ R ₂	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	

Antigen tables are available electronically on ih-area.bio-rad.com and a printed version is provided with the products.

Fixed Rh Pattern I-III: R₁R₁/R₂R₂/rr

Three group O, RhD positive cells: CCDee (R ₁ R ₁) and ccDEE (R ₂ R ₂) 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 ^a , Fy ^b , Jk ^a , Jk ^b , 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 ^a and Lu ^a positive if available	Additional security and convenience
At least one cell positive for Le ^a , Le ^b , P ₁ and N	

Cells from the same three individual donors available also in papain treated format as ID-DiaCell IP-IIP-IIIP Test Cell Reagents.

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 Systems.

ID-DiaCell I-II-III

Three-cell screening for patients

- Two RhD positive cells (CCD_{ee}, C^{w+}, ccD_{EE}) and one cell RhD negative (ccd_{dee})
- Double dose for Fy^a, Fy^b, Jk^a, Jk^b, M, S and s
- At least one cell positive for K, Le^a, Le^b, P₁ 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 R₁R₁, R₂R₂, rr (Id-n^o: 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 R₁R₁, R₂R₂, rr papainized (Id-n^o: 45194) 200 tests, 3 x 10 ml

Stability 7 weeks, shipment on standing order every 4 weeks

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 ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	F/M		
I	CCD.ee	R ₁ R ₁	950823	+	+	0	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	F
II	ccD.EE	R ₂ R ₂	090901	+	0	+	+	0	0	0	+	0	+	0	+	+	0	+	0	0	+	+	+	0	+	0	+	+	+	F	

Antigen tables are available electronically on ih-area.bio-rad.com and a printed version is provided with the products.

Fixed Rh Pattern I-II: R₁R₁, R₂R₂

Two group O, RhD positive cells: CCD.ee (R ₁ R ₁) and ccD.EE (R ₂ R ₂)	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 ^a /anti-Jk ^a showing dosage
At least one cell positive for Fy ^b , Jk ^b , Le ^b , P ₁ , 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

ID-DiaCell I-II

Two-cell screening for donors

- Two RhD positive cells (CCDee and ccDEE)
- Double dose for Fy^a and Jk^a
- At least one cell positive for K, Fy^b, Jk^b, Le^a, Le^b, P₁, 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 R₁R₁, R₂R₂ (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^a+)

Three-cell screening for patients

- Two RhD positive cells (CCDee and ccDEE)
- Double dose for Fy^a and Jk^a
- A least one cell positive for K, Fy^b, Jk^b, Le^a, Le^b, P₁, M, N, S, s and Mi^a
- 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 R₁R₁, R₂R₂, Mi^a+ (Id-n°: 45330) 200 tests, 3 x 10 ml

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

ID-Di^a (Diego) Positive

Ordering Information

Catalog # Description

ID-Di^a (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 R₁R₁, R₂R₂** (Id-n°: 06070) **200 tests**, 1 x 10 ml

003631 **2 pooled cells for IAT test R₁R₁, R₂R₂** (Id-n°: 06070) **600 tests**, 3 x 10 ml

Stability 7 weeks, shipment on standing order every 4 weeks



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Reagent Red Blood 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 ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	F/M	
1	C ^w CD.ee	R ₁ R ₁	677783	+	+	0	0	+	+	0	+	0	+	+	0	+	0	+	+	+	+	0	+	0	0	+	+			
2	CCD.ee	R ₁ R ₁	113683	+	+	0	0	+	+	0	+	0	+	+	0	+	+	0	0	+	0	+	0	+	0	+	0			
3	ccD.EE	R ₂ R ₂	422278	+	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	+	+			
11	ccddee	rr	169276	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

Antigen tables are available electronically on ih-area.bio-rad.com and a printed version is provided with the products.

Fixed Rh pattern 1-11: R₁R₁/R₁R₁/R₂R₂/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 Blood Group 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 ^a , Fy ^b , Jk ^a , Jk ^b , 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 ^a , Le ^b and P ₁	Allows identification of specific antibodies, and will allow underlying antibodies to be ruled out
On the ccddee cells, minimum 1 cell homozygous for Fy ^a , Fy ^b , Jk ^a , Jk ^b , 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 ^a , Le ^b and P ₁	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 ^a and Le ^b , 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 ^a underlying anti-c
One cell is always Fy(a-b-)	Allows identification of antibodies underlying anti-Fy ^a or anti-Fy ^b or to identify unusual antibodies in the Duffy Blood Group System
Standard and papain-treated panels	Offers improved efficiency and time saving and allows identification of routine, weak and complex antibody problems

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 evaluation of test materials, test methods, local working instructions, and automated equipment and 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
IH-QC 1 009321	Set of 4 tubes (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
IH-QC 2 009322	Set of 4 tubes (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
IH-QC 3 009323	Set of 4 tubes (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 15%).



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
IH-QC 6 009326	Single tube (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
IH-QC 7 009327	Single tube (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
IH-QC 8 009328	Single tube (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: direct testing and IAT	✓	✗	✗

Reagent Characteristics

	ABO	RH	K	FY	Antibodies		DAT
IH-QC 1	A ₁ [ABO:1,-2,3,4]	ddccee (rr), C ^w - [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
IH-QC 2	B [ABO:-1,2,3]	DCCeE (R ₁ R ₂), C ^w - [RH:1,2,3,4,5,-8]	K- [KEL:-1]	Fy(a-) [FY:-1]	Anti-A [Anti-ABO1]	Anti-Fy ^a [Anti-FY1]	Neg
IH-QC 3	AB [ABO:1,2,3]	DCCeE (R ₁ R ₁), C ^w - [RH:1,2,-3,-4,5,-8]	K- [KEL:-1]	N/A	Anti-c [Anti-RH4]		Neg
IH-QC 4	O [ABO:-1,-2,-3]	DccEE (R ₂ R ₂), C ^w - [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
IH-QC 5	A ₂ [ABO:1,-2,3,-4]	DCcee (R ₁ r), C ^w - [RH:1,2,-3,4,5,-8]	K- [KEL:-1]	N/A	Anti-B* [Anti-ABO2]		Neg
IH-QC 6	N/A	Weak D [RH:W1]	N/A	N/A	N/A		Neg
IH-QC 7	N/A	N/A	N/A	N/A	N/A		Pos [IgG]
IH-QC 8	N/A	N/A	N/A	N/A	N/A		Pos [C3b (c/d)]

* No irregular antibodies added - negative antibody screening/identification

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

Anti-D Reference Reagent
105500 **Anti-D Reference Reagent** (Id-n°: 13010), 6 x 0.5 ml

Cell lines: ESD 1 and LHM59/19



Albumin 6%

Ordering Information

Catalog # Description

Albumin 6%
105519 **Bovine Albumin 6%** (Id-n°: 13030), 1 x 10 ml
105520 **Bovine Albumin 6%** (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
Sample 1	AB [ABO:1,2,3]	RhD positive	N/A	N/A	N/A	N/A
Sample 2	O [ABO:-1,-2,-3]	ddcc _{ee} (rr) [RH:-1,-2,-3,4,5]	N/A	N/A	N/A	N/A
Sample 3	O [ABO:-1,-2,-3]	DCcE _e (R ₁ R ₂) [RH:1,2,3,4,5]	K+ [KEL:1]	N/A	N/A	N/A
Sample 4	O [ABO:-1,-2,-3]	Weak D	N/A	N/A	N/A	N/A
Sample 5	N/A	N/A	N/A	N/A	N/A	Pos
Serum 1	N/A	N/A	N/A	none	Anti-Fy ^a [Anti-FY1]	N/A
Serum 2	N/A	N/A	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	Anti-E [Anti-RH4]	N/A
Serum 3	N/A	N/A	N/A	Anti-A and Anti-B [Anti-ABO1 and Anti-ABO2]	none	N/A

N/A: Not Applicable

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