ID-System and Tube Reagents

Product Catalog



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

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ID-System

Blood Grouping ABO/D with Monoclonal Antibodies

Frequencies of the different ABO blood groups, according to Reid et al. (2012), in the Caucasian population:

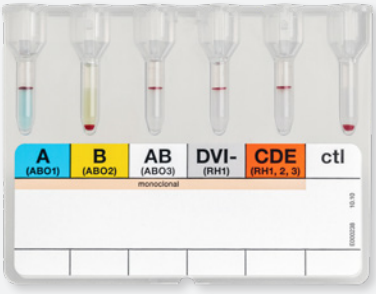
O	44%
A	43%
B	9%
AB	4%

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 negative), 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

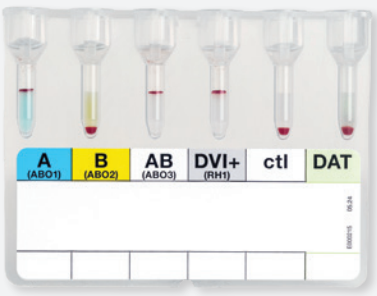
Cell lines: A: LM297/628 (LA-2), B: LM306/686 (LB-2), D: TH28, RUM-1, LDM1

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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.



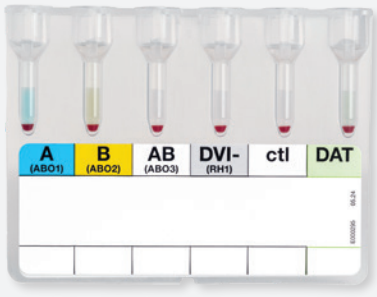
Ordering Information

Catalog #	Description
DiaClon ABO/Rh for Newborns DVI+	
001047	A, B, AB, DVI+, ctl, DAT (Id-n°: 50961), 48 profiles, 4 x 12
001048	A, B, AB, DVI+, ctl, DAT (Id-n°: 50961), 288 profiles, 24 x 12
001050	A, B, AB, DVI+, ctl, DAT (Id-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

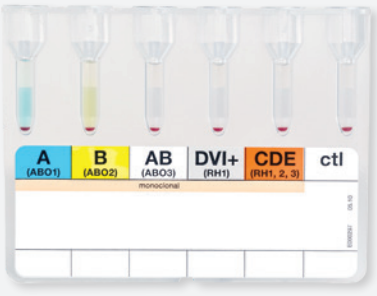
Catalog #	Description
DiaClon ABO/Rh for Newborns DVI-	
001027	A, B, AB, DVI-, ctl, DAT (Id-n°: 50071), 48 profiles, 4 x 12
001030	A, B, AB, DVI-, ctl, DAT (Id-n°: 50071), 288 profiles, 24 x 12
001029	A, B, AB, DVI-, ctl, DAT (Id-n°: 50071), 1,344 profiles, 112 x 12

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 (Id-n°: 51011), 48 profiles, 4 x 12
001033	A, B, AB, DVI+, CDE, ctl (Id-n°: 51011), 288 profiles, 24 x 12
001038	A, B, AB, DVI+, CDE, ctl (Id-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

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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+ (Id-n°: 51051), 96 profiles, 4 x 12
001133	A, B, DVI+/A, B, DVI+ (Id-n°: 51051), 576 profiles, 24 x 12
001135	A, B, DVI+/A, B, DVI+ (Id-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



Blood Grouping ABO/D with Double Determination of RhD

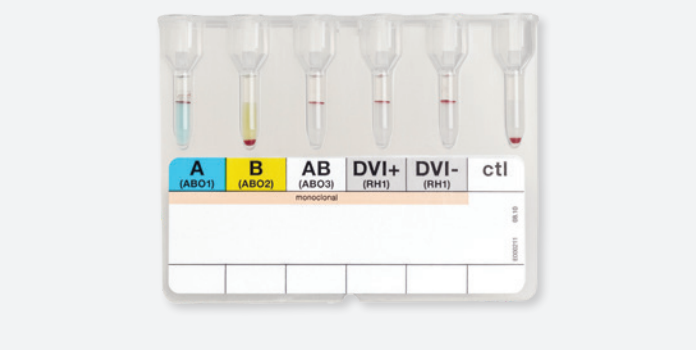
DiaClon ABO/D

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).

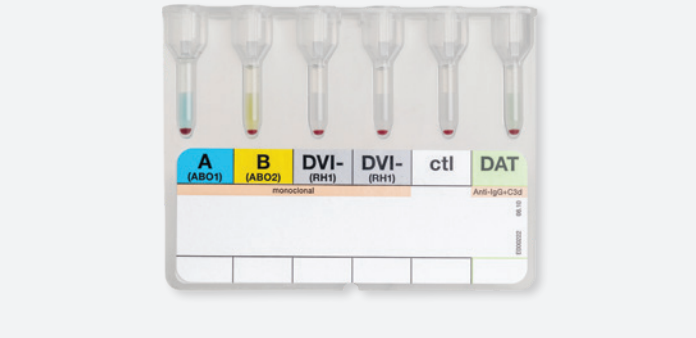
The two anti-D antibodies in the ID-Card are negative for the variant DVI.

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



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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

Blood Grouping ABO/D Combined with Reverse Grouping

DiaClon ABO/D + Reverse Grouping

The microtube ctl is the negative control. Two microtubes with neutral gel serve for reverse grouping with A_1 and B cells.



Ordering Information

Catalog #	Description
DiaClon ABO/D + Reverse Grouping	
001234	A, B, DVI-, ctl/A_1, B (Id-n°: 50092), 48 profiles, 4 x 12
001237	A, B, DVI-, ctl/A_1, B (Id-n°: 50092), 288 profiles, 24 x 12
001235	A, B, DVI-, ctl/A_1, B (Id-n°: 50092), 1,344 profiles, 112 x 12

Cell lines: A: A5, B: G1/2, D: LHM59/20 (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 with two anti-D selected to not detect the variant DVI.



Ordering Information

Catalog #	Description
DiaClon ABO/D (DVI-, DVI-) + Reverse Grouping	
001275	A, B, DVI-, DVI-, A_1, B (Id-n°: 50741), 1,344 profiles, 112 x 12

Cell lines: A: A5, B: G1/2, 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-, A_1, B (Id-n°: 50981), 720 profiles, 60 x 12

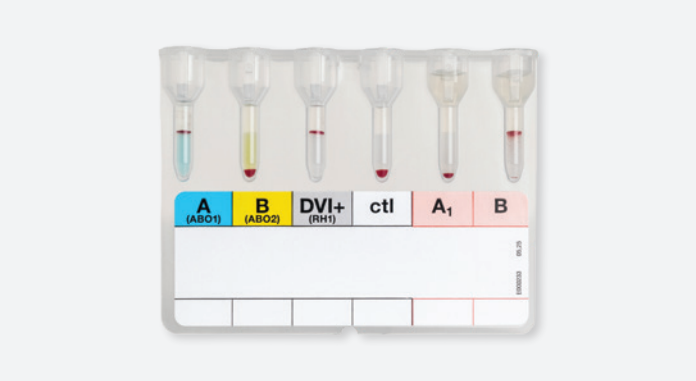
Cell lines: A: A5, B: G1/2, D: ESD-1M, 175-2, D: LHM 50/3 (LDM1), TH-28, RUM-1

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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.

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+, ctl/A_1, B (Id-n°: 51090), 48 profiles, 4 x 12
001365	A, B, DVI+, ctl/A_1, B (Id-n°: 51090), 1,344 profiles, 112 x 12

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

Reverse Grouping

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

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A Subgroups

The reagent **Anti-A_1 Absorbed** agglutinates A_1 cells but reacts negatively or only weakly with A_2 cells.

Approximately 80% of group A or AB individuals have red blood cells that are agglutinated by anti-A_1 and are thus classified as A_1 or A_1B.

Anti-A_1 Absorbed

ID-Card with 6 microtubes containing anti-A_1, human, within the gel matrix.

Ordering Information

Catalog #	Description
Anti-A_1 Absorbed	
001811	6 x A_1 (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-A_1.

DiaClon Anti-H

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

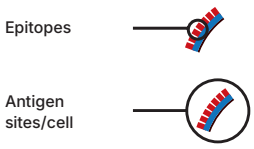
Ordering Information

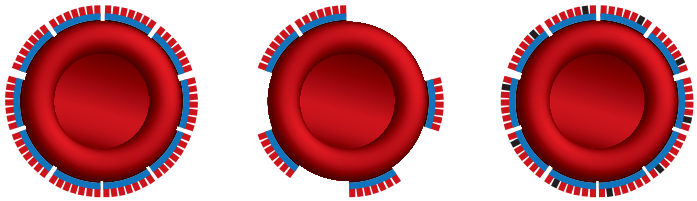
Catalog #	Description
DiaClon Anti-H	
001911	6 x H (Id-n°: 50150), 72 tests, 1 x 12

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



Typing of Partial RhD





	Normal D-Antigen	Weak D	Partial D
Epitopes	Normal	Normal	Reduced (Lacking)
Antigen sites/cell	Normal	Reduced	Normal or reduced

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 R_0^{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.

Verification of Weak D by IAT

ID-DiaClon Anti-D



For the confirmation of weak D by IAT

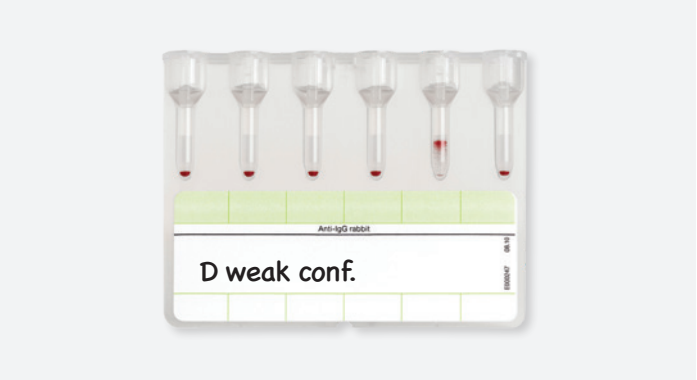
The increasing use of monoclonal anti-D from different cell lines can create problems in the interpretation of D antigen testing, in particular the differentiation of weak D and partial D.

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) 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

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 139 4B4 (C139-9)

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Phenotyping Rh/K

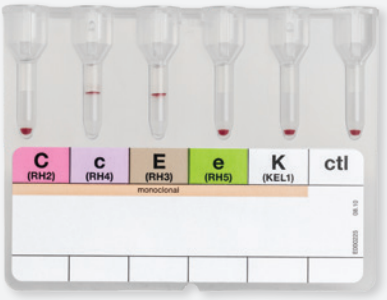
Besides the RhD antigen, other important antigens of the Rh Blood Group System are: C, E, c, and e. According to Reid et al. (2012), their frequencies in the Caucasian population are as follows:

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.



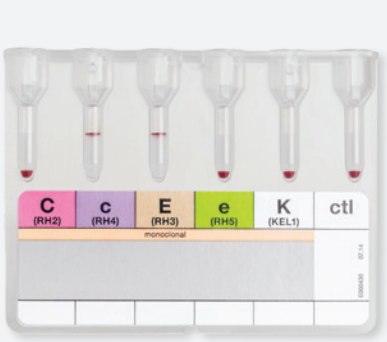
Ordering Information

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

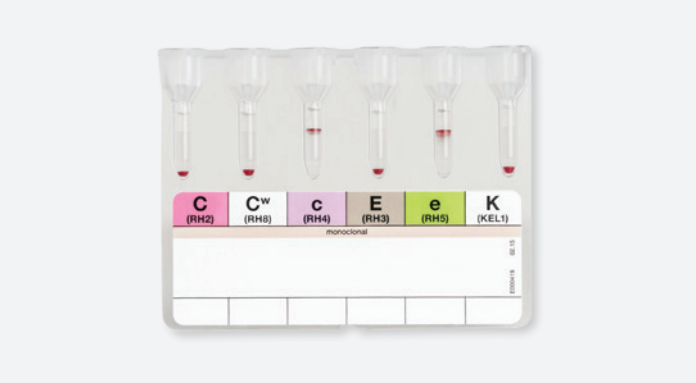
Catalog #	Description
DiaClon Rh + K Pheno II	
002224	C, c, E, e, K, ctl (Id-n°: 50710), 48 profiles, 4 x 12
002227	C, c, E, e, K, ctl (Id-n°: 50710), 288 profiles, 24 x 12
001249	C, c, E, e, K, ctl (Id-n°: 50710), 1,344 profiles, 112 x 12

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

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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 (Id-n°: 52000), 48 profiles, 4 x 12
002137	C, C^w, c, E, e, K (Id-n°: 52000), 288 profiles, 24 x 12
002135	C, C^w, c, E, e, K (Id-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**.

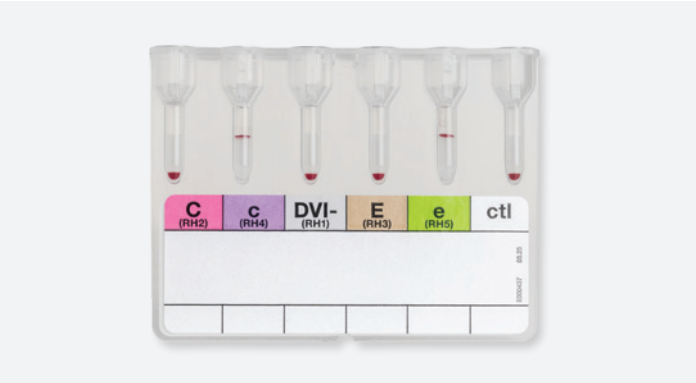


Ordering Information

Catalog #	Description
Control Card A	
001711	6 x ctl (Id-n°: 52020), 72 tests, 1 x 12
001714	6 x ctl (Id-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 (Id-n°: 52030), 48 profiles, 4 x 12
002237	C, c, DVI-, E, e, ctl (Id-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

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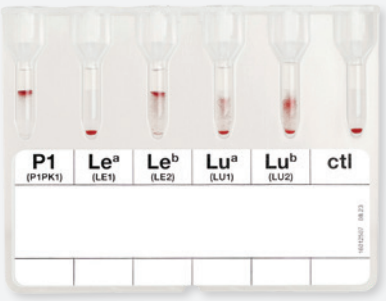
Antigen Profiles with Monoclonal Antibodies

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.

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**).



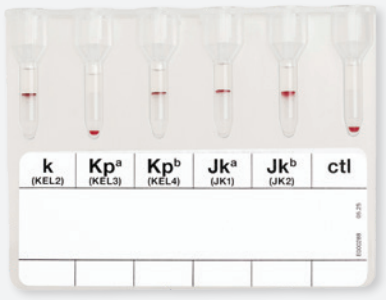
Ordering Information

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

DiaClon Antigen Profile II NEW

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



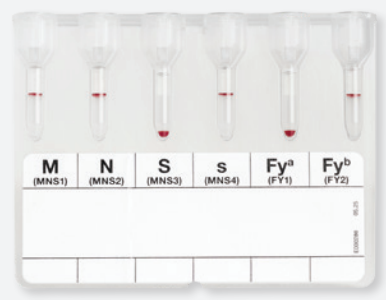
Ordering Information

Catalog #	Description
DiaClon Antigen Profile II	
12022353	k, Kp^a, Kp^b, Jk^a, Jk^b, ctl (Id-n°: 52160), 12 profiles, 1 x 12

Cell lines: k: Lk1 Kp^a: NKPAG-1, Kp^b: BRIC-203, Jk^a: MS-15 Jk^b: MS-8

DiaClon Antigen Profile III NEW

In the ID-Card **DiaClon Antigen Profile III**, the gel suspensions contain the corresponding antibodies, requiring only the addition of the red blood cell suspension (in **ID-Diluent 2**).



Ordering Information

Catalog #	Description
DiaClon Antigen Profile III	
12022333	M, N, S, s, Fy^a, Fy^b (Id-n°: 52170), 12 profiles, 1 x 12

Cell lines: M, 9211 9D5 1G10, N: SpL144Kc7, S: MS-94, s: P3BER, Fy^a: Sp2/O-SpD3µgC1, Fy^b: SpA264LBg1

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Single Antigen Testing with Monoclonal 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} (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^{w}** and **DiaClon Rh-Subgroups + C^{w} + 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

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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 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 **DiaClon Anti-K** and **DiaClon 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



DiaClon Anti-k NEW

Ordering Information

Catalog #	Description
DiaClon Anti-k	
12022359	6 x k (Id-n°: 52130), 72 tests, 1 x 12

Cell line: Lk1



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M (MNS1) and N (MNS2) antigenic determinants are carried on glycophorin A (GPA), one of the major sialic acid containing structures of the red blood cell membrane.

According to Reid et al. (2012), the phenotype frequencies of the MNS Blood Group System in the Caucasian population are as follows:

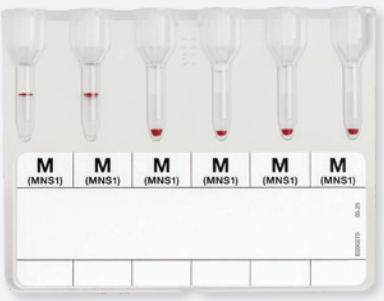
MM	28%
MN	50%
NN	22%

DiaClon Anti-M

Ordering Information

Catalog #	Description
DiaClon Anti-M	
007011	6 x M (Id-n°: 50212), 72 tests, 1 x 12

Cell lines: 9211 9D5 1G10

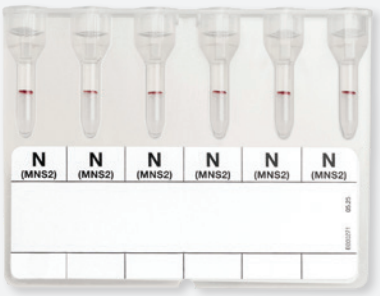


DiaClon Anti-N NEW

Ordering Information

Catalog #	Description
DiaClon Anti-N	
12022352	6 x N (Id-n°: 52060), 72 tests, 1 x 12

Cell lines: SpL144Kc7

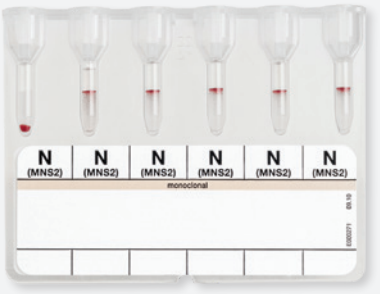


DiaClon Anti-N

Ordering Information

Catalog #	Description
DiaClon Anti-N	
007111	6 x N (Id-n°: 50221), 72 tests, 1 x 12

Cell lines: 1422 C7+MN879



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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 et al. (2012), the phenotype frequencies of the P1PK blood group system in the Caucasian population are:

Phenotype	Antigens	Frequency
P_1	PP1P^k	79%
P_2	PP^k	21%
p	–	very rare
P_1^k	P1P^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-n°: 51180), **72 tests**, 1 x 12

Cell line: 650



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Lewis antigens are absent or only poorly expressed on red blood cells from newborns. According to Reid 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)



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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 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 lines: 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 lines: 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



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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 feto-maternal immunization.

According to Reid 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%

DiaClon Anti-Kp^a NEW

Ordering Information

Catalog #	Description
DiaClon Anti-Kp^a	
12022318	6 x Kp^a (Id-n°: 52140), 72 tests, 1 x 12

Cell line: NKPAG-1



DiaClon Anti-Kp^b NEW

Ordering Information

Catalog #	Description
DiaClon Anti-Kp^b	
12022319	6 x Kp^b (Id-n°: 52150), 72 tests, 1 x 12

Cell line: BRIC-203



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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 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

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



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



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The antigens S (MNS3) and s (MNS4) are carried on the human glycophrin 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 (1995), the phenotype frequency of the antithetical antigens S and s in the Caucasian population is as follows:

SS	11%
Ss	44%
ss	45%

DiaClon Anti-S NEW

Ordering Information

Catalog #	Description
DiaClon Anti-S	
12022346	6 x S (Id-n°: 52070), 72 tests, 1 x 12

Cell line: MS-94



DiaClon Anti-s NEW

Ordering Information

Catalog #	Description
DiaClon Anti-s	
12022391	6 x s (Id-n°: 52080), 72 tests, 1 x 12

Cell line: P3BER



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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.

According to Reid 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%

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

DiaClon Anti-Fy^a NEW

Ordering Information

Catalog #	Description
DiaClon Anti-Fy^a	
12022306	6 x Fy^a (Id-n°: 52090), 72 tests, 1 x 12

Cell line: Sp2/O-SpD3µgC1



DiaClon Anti-Fy^b NEW

Ordering Information

Catalog #	Description
DiaClon Anti-Fy^b	
12022335	6 x Fy^b (Id-n°: 52100), 72 tests, 1 x 12

Cell line: SpA264LBg1



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Control Card 1 NEW

Ordering Information

Catalog #	Description
Control Card 1	
12022290	6 x ctl (Id-n°: 52110), 72 tests, 1 x 12



Control Card 2 NEW

Ordering Information

Catalog #	Description
Control Card 2	
12022329	6 x ctl (Id-n°: 52120), 72 tests, 1 x 12



Antigen Profiles with Polyclonal and Monoclonal 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 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

Cell lines: M: LM110/140 (LM-1), N: 1422 C7, S/s/Fy^a/Fy^b human antibodies

Single Antigen Testing with Polyclonal Antibodies

Anti-k



Ordering Information

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

Anti-Kp^a



Ordering Information

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

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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



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



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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



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



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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 (Id-n°: 51270) 24 tests, 1 x 12
007272	Test serum ID-Anti-Fy^a (Id-n°: 09210), human 90 tests, 1 x 5 mL
007282	Test serum ID-Anti-Fy^b (Id-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 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 (Id-n°: 09080), 10 tests, 1 x 0.5 mL

According to availability



Direct Antiglobulin Test (DAT)

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 139 4B4 (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

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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
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 139 4B4 (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

IgG: rabbit, C3d: cell line139 4B4 (C139-9)



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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**, two 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/cell respectively.

A positive reaction with the second dilution indicates a high concentration of anti-IgG1 and/or IgG3 antibodies.



Ordering Information

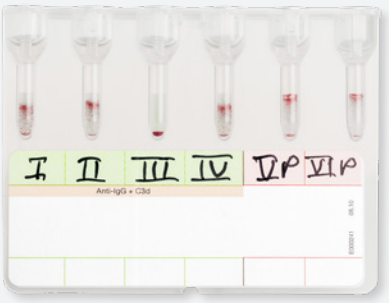
Catalog #	Description
DAT IgG1/IgG3	
004043	IgG subclasses (Id-n°: 50890), 12 profiles, 1 x 12

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

Antibody Screening

DiaScreen

The ID-Card **DiaScreen** consists of four microtubes containing polyspecific AHG for the IAT and two 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 139 4B4 (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 139 4B4 (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

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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

Antibody Identification

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 139 4B4 (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

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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 139 4B4 (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 139 4B4 (C139-9)

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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-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



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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 partialc-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), 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 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), 96 profiles, 4 x 12
001133	A, B, DVI+/A, B, DVI+ (Id-n°: 51051), 576 profiles, 2 4 x 12
001135	A, B, DVI+/A, B, DVI+ (Id-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

Solutions for Red Blood Cells and Reagents

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

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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 that 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**.



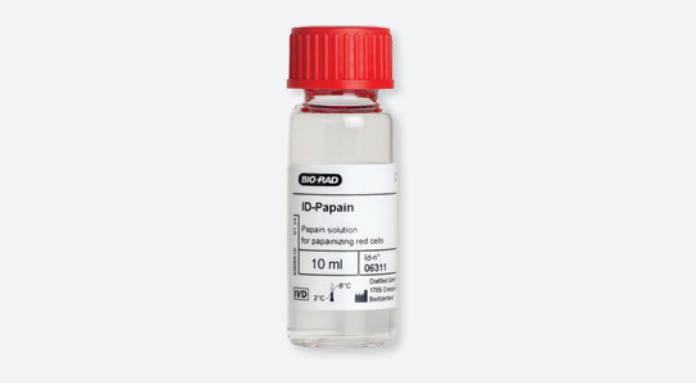
Ordering Information

Catalog #	Description
ID-CellWash-P	
005550	Wash solution for papainized Red Blood Cells (Id-n°: 05710), 1 x 500 mL

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ID-Papain

ID-Papain is a standardized liquid papain solution and may be used for pretreating 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

Miscellaneous Solutions

ID-Titration Solution

ID-Titration Solution is a dilution medium intended to be used for the titer 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

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Reagent Red Blood 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% (± 0.1%).



Ordering Information

Catalog #	Description
ID-DiaCell ABO	
003619	Set of 4 vials A_1, A_2, B, O (Id-n°: 45022), 200 tests, 4 x 10 mL
003615	Set of 3 vials A_1, B, O (Id-n°: 45352), 200 tests, 3 x 10 mL
003624	Set of 2 vials A_1, B (Id-n°: 45092), 200 tests, 2 x 10 mL
003621	Single vial: A_2 (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

Reagent Red Blood Cells for Antibody Screening

ID-DiaScreen I-VI/Antigen Table (Example)

				Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	
	Rh-hr	Donor		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	$C^wCD.ee$	$R_1^wR_1$	675479	+	+	0	0	+	+	0	+	0	+	0	+	0	+	+	+	0	0	0	+	+	0	+	0	+	+	F
II	ccD.EE	R_2R_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	0	+	+	M
IV	CCD.ee	R_1R_1	887567	+	+	0	0	+	0	0	+	+	+	0	+	+	0	+	+	0	+	+	+	0	0	+	0	+	0	M
V	$C^wCD.ee$	$R_1^wR_1$	928899	+	+	0	0	+	+	+	+	0	+	0	+	0	+	0	+	+	0	+	+	+	+	+	0	+	+	F
VI	ccD.EE	R_2R_2	158648	+	0	+	+	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: $R_1^wR_1/R_2R_2/rr$

Four blood group O Red Blood Cells: Cell I: $R_1^wR_1$ (CCDee), C^w+ Cell II: R_2R_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	Minimizes 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	

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Fixed Rh Pattern V–VI: $R^{w}_{1}R_{1}$, $R_{2}R_{2}$

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 $R^{w}_{1}R_{1}$, $R_{2}R_{2}$, rr, flexible Rh/$R^{w}_{1}R_{1}$, $R_{2}R_{2}$ papainized (Id-n°: 45070), 200 tests, 6 x 10 mL
004311	Set of 4 vials for IAT, I, II, III, IV $R^{w}_{1}R_{1}$, $R_{2}R_{2}$, rr, flexible Rh (Id-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′r, r′′r, rr, rr, rr (Id-n°: 45660) 100 tests, 6 x 5 mL

Stability 7 weeks, shipment on standing order every 4 weeks

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

			Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	
	Rh-hr	Donor	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	$C^wCD.ee$	$R_1^wR_1$	754456	+	+	0	0	+	+	0	+	0	+	0	+	+	+	0	+	+	0	+	+	0	+	0	0	+	0	M
II	ccD.EE	R_2R_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	+	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: $R_1^wR_1/R_2R_2/rr$

Three group O; two RhD-positive cells, CCDee (R_1R_1) and ccDEE (R_2R_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	Minimizes 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 (CCDee, C^w+, ccDEE) and one RhD negative cell (ccddee)
- 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-DiaCell I-II-III	
004310	Set of 3 vials for IAT and NaCl test $R_1^wR_1$, R_2R_2, rr (Id-n°: 45184), 200 tests, 3 x 10 mL

Stability 7 weeks, shipment on standing order every 4 weeks

ID-DiaCell IP-IIP-IIIP



Three-cell screening for patients (papainized)

Ordering Information

Catalog #	Description
ID-DiaCell IP-IIP-IIIP	
005310	Set of 3 vials for enzyme test $R_1^wR_1$, R_2R_2, rr papainized (Id-n°: 45194), 200 tests, 3 x 10 mL

Stability 7 weeks, shipment on standing order every 4 weeks

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ID-DiaCell I-II/Antigen Table (Example)

			Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	
	Rh-hr	Donor	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_1R_1	950823	+	+	0	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	F
II	ccD.EE	R_2R_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: R_1R_1, R_2R_2

Two group O, RhD positive cells: CCDee (R_1R_1) and ccDEE (R_2R_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	Minimizes 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, P_1, 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_1R_1, R_2R_2 (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, P_1, 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 R_1R_1, R_2R_2, Mi^a+ (Id-n°: 45330), 200 tests, 3 x 10 mL

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

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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-DiaCell Pool

Ordering Information

Catalog #	Description
ID-DiaCell Pool	
003630	2 pooled cells for IAT test R_1R_1, R_2R_2 (Id-n°: 06070), 200 tests, 1 x 10 mL
003631	2 pooled cells for IAT test R_1R_1, R_2R_2 (Id-n°: 06070), 600 tests, 3 x 10 mL

Stability 7 weeks, shipment on standing order every 4 weeks



Reagent Red Blood Cells for Antibody Identification

ID-DiaPanel™ 1-11/Antigen Table (Example)

			Rh						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	
	Rh-hr	Donor	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	$C^wCD.ee$	$R_1^wR_1$	677783	+	+	0	0	+	+	0	+	0	+	0	+	0	+	0	0	+	+	+	0	+	0	0	+	+	
2	CCD.ee	R_1R_1	113683	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	0	0	+	0	+	0	+	0	+	0	
3	ccD.EE	R_2R_2	422278	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	0	+	+	+	+	+	0	0	+	+	
4	Ccddee	r'r	293832	0	+	0	+	+	0	0	+	0	+	0	+	0	0	+	+	0	+	+	+	+	+	0	+	+	
5	ccddEe	r''r	307849	0	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	+	+	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	+	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	+	+	

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 product.s

Fixed Rh pattern 1-11 $R_1^wR_1/R_1R_1/R_2R_2$/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

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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

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Quality Control for Blood Group Serology

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 cell 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 cell 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 cell 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

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IH-QC 4

4 tubes containing 6 mL of a human red blood cell 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 cell 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	✓	✓	✓	X	✓
Crossmatch, Indirect Antiglobulin Test (IAT)	✓	✓	✓	✓	✓
Direct Antiglobulin Test (DAT)	✓	✓	✓	✓	✓

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IH-QC 6

1 tube containing 6 mL of a human red blood cell 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 cell 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 cell 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	✓	X	X

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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_1R_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_1R_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_2R_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_1r), 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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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	✓	✓	✓	✓	X
RhD typing	✓	✓	✓	✓	X
Rh phenotyping	✓	✓	✓	✓	X
K phenotyping	✓	✓	✓	X	X
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]	ddccee (rr) [RH:-1,-2,-3,4,5]	N/A	N/A	N/A	N/A
Sample 3	O [ABO:-1,-2,-3]	DCcEe (R1R2) [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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Tube Reagents

Liquid Reagents

Blood Grouping ABO/D with Monoclonal Antisera

Monoclonal reagents for ABO and A subgroup typing by tube or slide testing.



Ordering Information

Catalog #	Description
801320	Seraclone Anti-A (ABO1), cell line A003 (IgM), 10 mL
801325	Seraclone Anti-A (ABO1), cell line A003 (IgM), 10 x 10 mL
801345	Seraclone Anti-B (ABO2), cell line B005 (IgM), 10 mL
801350	Seraclone Anti-B (ABO2), cell line B005 (IgM), 10 x 10 mL
801370	Seraclone Anti-AB (ABO3), cell lines BS63/BS85 (IgM), 10 mL
801375	Seraclone Anti-AB (ABO3), cell lines BS63/BS85 (IgM), 10 x 10 mL
801136	Seraclone Anti-A1 (ABO4), cell line A_1, 5 mL
801165	Seraclone Anti-H (H1), cell lines A46/B.B10, 5 mL
802039	Seraclone Anti-D (RH1) 226*, cell line BS226 (IgM), 10 mL
802042	Seraclone Anti-D (RH1) 226*, cell line BS226 (IgM), 10 x 10 mL
802054	Seraclone Anti-D (RH1) 232*, cell line BS232 (IgM), 10 mL
802032	Seraclone Anti-D (RH1) Blend**, cell lines BS232 (IgM)/BS221/ H41 11B7 (IgG), 10 mL
802033	Seraclone Anti-D (RH1) Blend**, cell lines BS232 (IgM)/BS221/ H41 11B7 (IgG), 10 x 10 mL

* does not detect category DVI cells.
** suitable to perform the indirect antiglobulin test, react with category DVI.

Phenotyping Rh/K with Monoclonal Antisera

Monoclonal reagents for Rhesus phenotyping and C^w typing by tube or slide testing.



Ordering Information

Catalog #	Description
802280	Seraclone™ Anti-C (RH2), cell line MS24 (IgM), 5 mL
802282	Seraclone Anti-C (RH2), cell line MS24 (IgM), 10 mL
802346	Seraclone Anti-c (RH4), cell line MS33 (IgM), 5 mL
802348	Seraclone Anti-c (RH4), cell line MS33 (IgM), 10 mL
802330	Seraclone Anti-E (RH3), cell lines MS258/906 (IgM), reacts with E^w, 5 mL
802331	Seraclone Anti-E (RH3), cell lines MS258/906 (IgM), reacts with E^w, 10 mL
802370	Seraclone Anti-e (RH5), cell lines MS16/MS21/MS63 (IgM), 5 mL
802372	Seraclone Anti-e (RH5), cell lines MS16/MS21/MS63 (IgM), 10 mL
802080	Seraclone Anti-CDE (RH2, RH1, RH3), cell lines P3x25513G8/ P3x61/P3x234 (IgM), 10 mL
802155	Seraclone Anti-C^w (RH8), cell line MS110 (IgM), 5 mL
808090	Seraclone Anti-K (KEL1), (Kell), cell line MS56, 5 mL

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Single Antigen Testing with Monoclonal Antisera

Monoclonal antisera for fast, specific, and safe antigen detection in the tube test.



Ordering Information

Catalog #	Description
808126	Seraclone Anti-k (KEL2), cell line Lk1, 2 mL
808410	Seraclone Anti-M (MNS1), cell line BS57, 2 mL
808415	Seraclone Anti-N (MNS2), cell line BS41, 2 mL
808052	Seraclone Anti-S (MNS3), cell line MS94, 2 mL
808068	Seraclone Anti-s (MNS4), cell line P3YAN3, 2 mL
808158	Seraclone Anti-P1 (P1), cell line 650, 2 mL
808188	Seraclone Anti-Fy^{a} (FY1), (Duffy^{a}); cell line DG-FY-02, 2 mL
808404	Seraclone Anti-Le^{a} (LE1), (Lewis^{a}), cell line LEA2, 2 mL
808423	Seraclone Anti-Le^{b} (LE2), (Lewis^{b}), cell line LEB1, 2 mL
808227	Seraclone Anti-Lu^{b} (LU2), (Lutheran^{b}), cell line LU2, 2 mL
808179	Seraclone Anti-Jk^{a} (JK1), (Kidd^{a}), cell line MS15, 2 mL
808184	Seraclone Anti-Jk^{b} (JK2), (Kidd^{b}), cell line MS8, 2 mL

Single Antigen Testing with Polyclonal (Human) Antisera

Liquid and lyophilized human polyclonal rare antisera.



Ordering Information

Catalog #	Description
808131	Anti-Kp^{a} (KEL3), (Penney), 2 mL
808141	Anti-Kp^{b} (KEL4), (Rautenberg), 2 mL
808191	Anti-Fy^{b} (FY2), (Duffy^{b}), 2 mL
808216	Anti-Lu^{a} (LU1), (Lutheran^{a}), 2 mL
808260	Anti-Wr^{a} (DI3), (Wright), 1 mL (lyophilized)
808270	Anti-Di^{a} (DI1), (Diego), 1 mL (lyophilized)

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Reagent Red Blood Cells

Reagent Red Blood Cells for reverse typing, antibody screening, and antibody identification.



Ordering Information

Catalog #	Description
12012455	Biotestcell -A_1 & B*, for reverse blood grouping, 2 x 10 mL
12012454	Biotestcell -A_2*, for reverse blood grouping, 10 mL
12012453	Biotestcell -O*, for reverse blood grouping, 10 mL
816012	Biotestcell -P1, -P2*, for antibody screening, 2 x 10 mL
816017	Biotestcell -P3*, for antibody screening, 3 x 10 mL
816020	Biotestcell -I8*, for antibody identification, 8 x 4 mL
816021	Biotestcell -I11*, for antibody identification, 11 x 4 mL
816026	Biotestcell -C*, cord red blood cell for identification of cold agglutinins, 5 mL

* Shelf life at 2–8°C: minimum 7 weeks. Production every 4 weeks.

Anti-Human Globulins

Choice of polyspecific and monospecific Anti-Human Globulins.



Ordering Information

Catalog #	Description
Polyspecific Anti-Human Globulin (Coombs)	
804020	Anti-Human-Globulin, Anti-IgG (polyclonal, rabbit) + Anti-C3d (cell line BRIC8), 10 mL
804120	Anti-Human-Globulin Color, Anti-IgG (polyclonal, rabbit) + Anti-C3d (cell lineBRIC8), 10 mL
804115	Anti-Human-Globulin Color, Anti-IgG (polyclonal, rabbit) + Anti-C3d (cell line BRIC8), 10 x 10 mL
804130	Anti-Human-Globulin Color, Anti-IgG (polyclonal, rabbit) + Anti-C3d (cell line BRIC8), 50 mL
Monospecific Anti-Human Globulin	
804501	Anti-IgG, 5 mL
804521	Anti-IgM, 2 mL
804561	Anti-C3, 2 mL
804601	Anti-C3d, 5 mL
804581	Anti-C4, 2 mL

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Solutions for Red Blood Cells and Reagents

Selection of supplements, enzymes, and solutions to fulfill the blood group routine.



Ordering Information

Catalog #	Description
805205	MLB 2, modified LISS solution, 10 x 10 mL
12014332	MLB 2, modified LISS solution, 10 mL
805200	MLB 2, modified LISS solution, 50 mL
805012	Bromelin, for enzyme treatment of red blood cells, 10 mL (lyophilized)
805030	Papain, for enzyme treatment of red blood cells, 5 mL (lyophilized)
805060	Rinderalbumin 22%, bovine albumin reagent, 10 x 10 mL
805090	Rinderalbumin 30%, bovine albumin reagent, 10 x 10 mL
806505	Alsevers F, modified Alsever's solution for suspension and stabilization of red blood cells, 50 mL
806506	Alsevers F, modified Alsever's solution for suspension and stabilization of red blood cells, 1,000 mL

Quality Controls for Blood Group Serology

Quality controls for tube testing.



Ordering Information

Catalog #	Description
805171	Seraclone Control ABO+Rh, negative control for monoclonal ABO/D and Rh reagents, 10 mL
12012455	Biotestcell™ -A1 & B*, for ABO/D and Rh phenotyping control, 2 x 10 mL
816030	Coombscell-E*, positive control reagent (IgG sensitized RBCs) to be included in Direct and Indirect Antiglobulin test, 10 mL
816040	Coombszym-K, positive control reagent to be included in Indirect Antiglobulin test and enzyme test, 10 mL

* Minimum stability 7 weeks, shipment on standing order every 4 weeks.

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Bedside Testing

Serafol™

Ready-to-use twin cards for identity proof prior to blood transfusion (bedside test).



Ordering Information

Catalog #	Description
803110	Serafol ABO*, bedside card for blood group confirmation in bedside tests (ABO), 50 cards
803120	Serafol ABO+D*, bedside card for blood group confirmation in bedside tests (ABO + RhD), 50 cards
803100	Serafol ABO Single Kit*, 1 bedside card for blood group confirmation in bedside tests (ABO) (including 2 adhesive foils, 2 sticks, and 1 reaction scheme per kit), 100 kits
803030	Serafol Foil, adhesive foil for documentation of Serafol bedside cards, 100 foils
803021	Serafol Sticks, for reagent mixing on Serafol bedside cards, 100 sticks

* In collaboration with SIFIN. Please reach out to your local Bio-Rad representative for availability.

References and Bibliography

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