

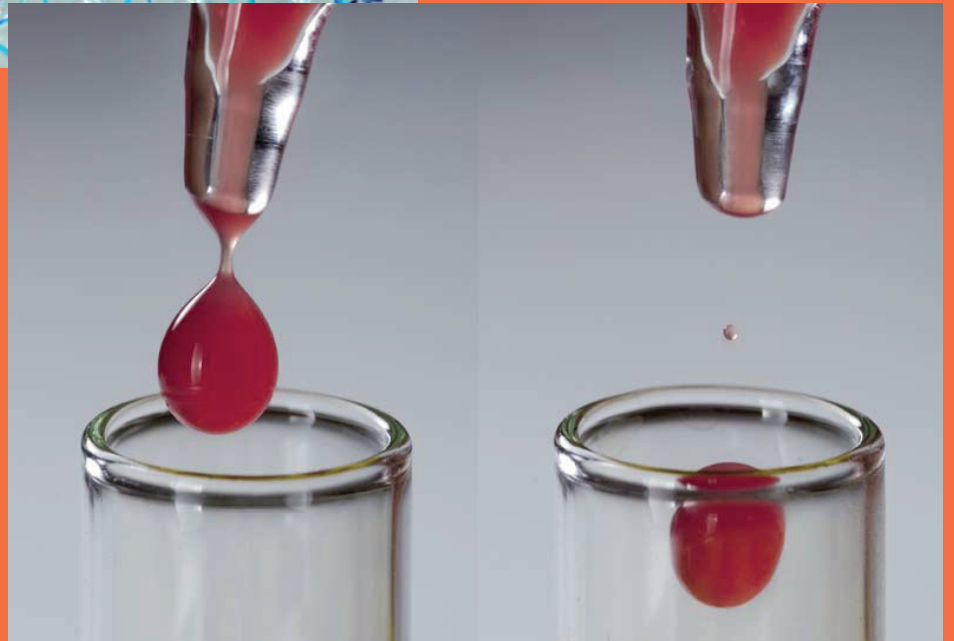


Sanquin
Blood Supply

Product catalogue 2012

Blood grouping reagents

Immune reagents



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General terms

You can find our Terms of Delivery on our website www.sanquinreagents.com.

Introduction

Sanquin Blood Supply

On January 1998 the Dutch Red Cross Blood Banks and the Central Laboratory of the Blood Transfusion Service of the Dutch Red Cross (CLB) merged into the Sanquin Blood Supply Foundation, generally known as Sanquin. Sanquin is a not-for-profit organisation that manages blood supplies and promotes transfusion medicine, in a manner that meets the most stringent quality, safety and efficiency requirements. The foundation has 5 divisions (Blood Bank, Plasma Products, Diagnostic Services, Research, Reagents) and 1 business unit (Pharmaceutical Services). Sanquin has over 3,000 employees in the Netherlands.

Division Reagents

Sanquin was among the first manufacturers of blood grouping and immune reagents. As spin-off of its research facilities and diagnostic laboratories, the division Reagents was able to develop a broad range of reagents, including several innovative products for diagnostic use and for fundamental and clinical research. Our blood grouping and immune reagents are available world-wide through a network of distributors, who act as an intermediate for product distribution, information and services between the local clients and Sanquin. The division Reagents is ISO 9001 and ISO 13485 certified.

Our product groups

Blood grouping reagents

Blood grouping reagents are essential tools for diagnostic laboratories specialised in serology. These reagents developed by the division Reagents are used in several serological tests, especially focused on red blood cells and platelets. These diagnostic tests are of the highest importance before a blood transfusion (with donor red blood cells or platelets) is given, or to prevent immunisation during pregnancy. With Cellbind and Magister we are able to offer a high-quality fully automated system for screening and typing in column techniques.

Human IgG subclass reagents

Immunoglobulin G, abbreviated as IgG, consists of four subclasses: IgG1, IgG2, IgG3 and IgG4. IgG subclass reagents are used to measure concentrations of the four IgG subclasses in serum. Deficiencies of one or more of the IgG subclasses are an indication of a disturbed immune system. Several disease states are associated with decreased or elevated levels of (one or more) IgG subclasses. The division Reagents manufactures reagents for the most frequently used techniques: nephelometry, radial immunodiffusion and ELISA.

Cytokines and related proteins

Under the trade name PeliKine™ the division Reagents offers a broad range of (ELISA) kits and reagents for determination of human cytokine levels. Cytokines are involved in a large number of important cellular activities: e.g. maturation of blood stem cells, induction of cell proliferation, maintenance of cell viability and regulation of immunity and inflammation.

Reagents for flow cytometry

The range of cell-specific monoclonal antibodies are the result of Sanquin's long history of research on human leukocytes. These cell-specific monoclonal antibodies are specifically directed against typical cell surface structures (antigens), also called 'CDs'. With monoclonal antibodies cell populations can be differentiated and different types of leukocytes can be distinguished and isolated from the blood.

Read more about our products and find our IFUs on www.sanquinreagents.com.

Blood grouping reagents

Blood grouping reagents are essential tools for diagnostic laboratories, specialised in serology. The broad range of products developed by Sanquin Blood Supply, division Reagents, is used in several serological tests, especially focused on red blood cells and platelets.

These diagnostic tests are of the highest importance before a blood transfusion is administered and to prevent immunisation during pregnancy.

Product categories

- **Reagents for typing**
Detection of blood group antigens on red cells ABO, Rhesus and rare antigens
- **Reagents for the (in)direct antiglobulin test (Coombs sera)**
Polyspecific, monospecific and agglutination potentiating reagents
- **Reagent red blood cells (3% cell suspension)**
Red blood cells for confirmation, control, screening and identification
- **Column panels (0.8% cell suspension)**
Red blood cells for screening and identification in column agglutination systems
- **Cellbind column system**
Immunofixation column technology for all blood group serological testing
- **Magister**
Fully automated immunohaematology analyser
- **Quality control panels and proficiency kits**
Panels for internal and external control and education
- **PeliPIP**
Find the Composition sheets and Instructions on how to download them
- **Textbook Immunohaematology**
Dutch and English version available
- **Platelet crossmatching**
MASPAT kit for the detection of antibodies against platelets
- **IgG subclass reagents**
PeliClass antisera for agglutination techniques.

Blood grouping reagents

Reagents for typing blood group antigens on red cells

ABO blood grouping reagents

These monoclonal reagents are available for different techniques like slide, MTP, spin tube and Cellbind for the typing of ABO blood groups.

Rhesus blood grouping reagents

These monoclonal reagents can be used in different techniques like slide, MTP, spin tube and Cellbind for the detection of Rhesus blood groups and D-variants.

Rare blood grouping reagents

These monoclonal and polyclonal reagents can be used for typing other blood groups than ABO and Rhesus. Sanquin strives to offer a complete product range for these typings.

ABO blood grouping reagents

Monoclonal

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K11883	3x10ml	Pelikloon anti-A (IgM)	Saline; slide/spin tube/MTP/Cellbind
K118810	10x10ml	Pelikloon anti-A (IgM)	Saline; slide/spin tube/MTP/Cellbind
K11893	3x10ml	Pelikloon anti-B (IgM)	Saline; slide/spin tube/MTP/Cellbind
K118910	10x10ml	Pelikloon anti-B (IgM)	Saline; slide/spin tube/MTP/Cellbind
K11903	3x10ml	Pelikloon anti-A,B (IgM)	Saline; slide/spin tube/MTP/Cellbind
K119010	10x10ml	Pelikloon anti-A,B (IgM)	Saline; slide/spin tube/MTP/Cellbind

Lectines

K1328	5ml	anti-A1 (<i>Dolichos biflorus</i>)	Saline; slide/spin tube
K1327	3ml	anti-H (<i>Ulex europaeus</i>)	Saline; spin tube

Rhesus blood grouping reagents

Monoclonal

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K1155	10ml	Pelikloon anti-D (IgM)	Saline; slide/spin tube/MTP/Cellbind
K115510	10x10ml	Pelikloon anti-D (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1153	10ml	Pelikloon anti-D 'enhanced' (IgG/IgM) <i>one phase reagent for direct detection of (weak) D-positive erythrocytes and D-variants</i>	Saline; spin tube/MTP
K1152	10ml	Pelikloon 'enhanced' control	
K1157	10ml	Pelikloon anti-D Mix (IgG/IgM) <i>two phase reagent:</i> <i>IgM: direct agglutination (weak) D-positive erythrocytes</i> <i>IgG: agglutination weak D and D variants in the IAT</i>	Saline; slide/spin tube/MTP/IAT/Cellbind
K115710	10x10ml	Pelikloon anti-D Mix (IgG/IgM)	Saline; slide/spin tube/MTP/IAT/Cellbind
K1195	5ml	Pelikloon anti-C (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1196	5ml	Pelikloon anti-c (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1191	5ml	Pelikloon anti-E (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1197	5ml	Pelikloon anti-e (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1201	2ml	Pelikloon anti-C ^w (IgM)	Saline; spin tube
K1113	10ml	Pelikloon anti-CDE (IgM/IgG)	Saline; slide/spin tube/MTP/Cellbind

Second line rhesus phenotyping reagents

article number	package	description	method; technique
K1202	5ml	Pelikloon anti-C (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1203	5ml	Pelikloon anti-c (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1204	5ml	Pelikloon anti-E (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1205	5ml	Pelikloon anti-e (IgM)	Saline; slide/spin tube/MTP/Cellbind

Rare blood grouping reagents

Monoclonal

article number	package	description	method; technique
K1199	5ml	Pelikloon anti-K (IgM)	Saline; slide/spin tube/MTP/Cellbind
K1300	2ml	Pelikloon anti-Jk ^a (IgM)	Saline; spin tube
K1301	2ml	Pelikloon anti-Jk ^b (IgM)	Saline; spin tube
K1302	2ml	Pelikloon anti-M (IgG)	Saline; spin tube
K1313	2ml	Pelikloon anti-N (IgG)	Saline; spin tube
K1304	2ml	Pelikloon anti-S (IgM)	Saline; spin tube
K1305	2ml	Pelikloon anti-P ₁ (IgM)	Saline; spin tube
K1316	2ml	Pelikloon anti-Le ^a (IgA)	Saline; spin tube
K1317	2ml	Pelikloon anti-Le ^b (IgA)	Saline; spin tube
K1310	2ml	Pelikloon anti-k (Cellano) (IgM)	Saline; spin tube

Polyclonal

article number	package	description	method; technique
K1334	3ml	anti-Kp ^a (IgG)	IAT; spin tube
K1335	3ml	anti-Kp ^b (IgG)	IAT; spin tube
K1336	3ml	anti-Fy ^a (IgG)	IAT; spin tube
K1337	3ml	anti-Fy ^b (IgG)	IAT; spin tube
K1340	3ml	anti-Lu ^a (IgG)	IAT; spin tube
K1341	3ml	anti-Lu ^b (IgG)	IAT; spin tube
K1343	3ml	anti-s (IgG)	IAT; spin tube
K1344	3ml	anti-Wr ^a (IgG)	IAT; spin tube

Control reagents for blood typing

Monoclonal

article number	package	description
K1156	10ml	Pelikloon control Control on false-positive results, obtained with monoclonal blood grouping reagents

Polyclonal

article number	package	description
K1146	10ml	pooled AB serum Control on false-positive results, obtained with polyclonal blood grouping reagents

Reagents for the (in)direct antiglobulin test (Coombs sera)

AHG contains antibodies against human IgG. These antibodies bind to the IgG-molecules on the erythrocytes. This forms a bridge and the erythrocytes agglutinate. Most allo-antibodies directed against erythrocytes are IgG-antibodies. The large majority of IgG-antibodies is not complement binding. However, there are examples of antibodies that could only be detected indirectly with anti-complement. Therefore, the composition and quality of the AHG reagents are important.

AHG reagents

Polyspecific

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K1193	10ml	Pelikloon polyspecific anti-human serum <i>polyclonal anti-IgG and monoclonal anti-C3d</i>	(LISS or albumin)-IAT/DAT; spin tube
K1194	10ml	Pelikloon polyspecific anti-human serum (green) <i>polyclonal anti-IgG and monoclonal anti-C3d</i>	(LISS or albumin)-IAT/DAT; spin tube

Monospecific

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K1131	10ml	monospecific anti-human IgG	(LISS or PEG)-IAT/DAT; spin tube
K1124	10ml	monospecific anti-human IgG (green)	(LISS or PEG)-IAT/DAT; spin tube
K1377	5ml	Pelikloon anti-human C3d	DAT; spin tube
K1378	5ml	Pelikloon anti-human C3c and C3d	DAT; spin tube
K1375	5ml	monospecific anti-human IgA	DAT; spin tube
K1376	5ml	monospecific anti-human IgM	DAT; spin tube

Control

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K1192	10ml	Coombs Control Reagent <i>serum with a weak anti-D activity to control the performance of the IAT</i>	Albumin/(LISS or PEG)-IAT; spin tube

Agglutination potentiating reagents

The effect of agglutination enhancers is a reduction of the water mantle and ion cloud around the erythrocyte or an increase in the interaction between antigen and antibody. Agglutination enhancers can influence the zeta potential so that incomplete antibodies can agglutinate red cells and can increase the binding (association) between antibody and antigen.

BSA (Bovine Serum Albumin)

article number	package	description	method; technique
K1106	10ml	BSA 22%	BSA-IAT; spin tube
K1107	10ml	BSA 30%	BSA-IAT; spin tube

PEG (Polyethylene glycol)

article number	package	description	method; technique
K1159	20ml	PEG 4000 20% solution	PEG-IAT; spin tube
K115910	10x20ml	PEG 4000 20% solution	PEG-IAT; spin tube

LISS (modified Low Ionic Strength Solution)

article number	package	description	method; technique
K1110	10ml	PeliLISS <i>modified low ionic strength solution, containing high molecular additives</i>	LISS-IAT; spin tube

Enzyme

article number	package	description	method; technique
K1121	Bromelin (lyophilised)	5ml	enzyme-test; spin tube

Reagent red blood cells (3% cell suspension)

Reagent red blood cells are used for conformation, screening and identification. Each identification panel contains positive cells for Kp^a, Lu^a and Wr^a and k-neg cells. Screening panel 123 always contains Bg^a, Bg^b and Bg^c negative donors.

Red blood cells for confirmation of AB0 groups

Confirmation of AB0 groups (AB0 reverse group)

article number	package	description	method; technique
K1140	10ml	A ₁ reagent red cells	Saline; slide/spin tube
K1142	10ml	B reagent red cells	Saline; slide/spin tube

Control cells

article number	package	description	method; technique
K1141	10ml	A ₂ reagent red cells	Saline; slide/spin tube
K1143	10ml	O, D-positive reagent red cells	Saline; slide/spin tube
K1144	10ml	O, D-negative reagent red cells	Saline; slide/spin tube

Storage solution for red blood cells

article number	package	description
K1150	10ml	Storage solution for red cells

Red blood cells for anti-human globulin control

Coombs Control Cells are 3% red cell suspensions with blood group 0, D-positive and are sensitised with anti-D IgG antibodies. The principle of the test is the agglutination technique, which is based on antigen/antibody reaction. Coombs Control Cells should be added to every test tube yielding a negative result.

Coombs Control Cells are IgG sensitised group 0 Rhesus D-positive human red cells that have been sensitised in vitro with different amounts of anti-D (IgG) antibodies.

article number	package	description	method; technique
K1145	10ml	Coombs Control Cells	DAT/IAT; spin tube
K1138	10ml	Coombs Control Cells strong	DAT/IAT; spin tube

Red blood cells for antibody detection

Screening set 1 + 2

Screening set 1+ 2 (3%) can be used to screen sera for the presence of clinically significant red cell antibodies. However, the donors used in this panel are not always homozygous for the genes controlling the antigens present on their red cells.

Screening panel 123

The cell suspensions (3%) used in this screening panel 123 have been selected so as to ensure optimal antigen distribution for the detection of clinically significant red cell antibodies. A donor positive for C^w-antigen is always present. The fact that the donors used in this panel are often homozygous for the genes controlling the antigens present on their red cells, renders screening panel 123 suitable for use in type and screen procedures.

Screening panel 123 always contains Bg^a, Bg^b and Bg^c negative donors.

2 cell screening panel

article number	package	description	method; technique
K1388	2x10ml	Screening set 1+2 <i>Two ready-for-use red cell suspensions for the detection of unknown erythrocyte antibodies.</i>	IAT; spin tube

3 cell screening panel (from Bg^a, Bg^b and Bg^c negative donors)

article number	package	description	method; technique
K1148	3x10ml	Screening panel 123 <i>Three ready-for-use red cell suspensions (from Bg^a, Bg^b and Bg^c negative donors) for the detection of unknown erythrocyte antibodies.</i>	IAT; spin tube

Red blood cells for the detection of Wra-antibodies

article number	package	description	method; technique
K1393	3ml	Wr ^a + positive reagent red cells	IAT; spin tube

Red blood cells for antibody identification

Makropanel 16 consists of 16 different cell suspensions (3%) derived from individual donors all with blood group 0. The Makropanel cells have been selected to ensure optimal antigen distribution for the identification of clinically significant red cell antibodies in 97% of the cases.

An **extra advantage** is the presence of a Kp^a positive cell, a Lu^a positive cell, a R₂R₂ cell, a k negative cell and a Wr^a positive cell.

16 cell identification panel

<i>article number</i>	<i>package</i>	<i>description</i>	<i>method; technique</i>
K1385	16x3ml	Makropanel 16 <i>panel of 16x3ml red cell suspension</i>	IAT; spin tube
K1384	16x3ml	Makropanel 16P <i>panel of 16x3ml Papain treated cells</i>	IAT; spin tube

Column panels (0.8% cell suspension)

All cell suspensions are derived from individual donors with blood group 0. The Column screen 123 consists of 10ml vials.

The Column panel 16 consists of 3ml vials. The cells are suspended in a special preservation medium.

Donor red blood cells for antibody detection in column agglutination systems (not for use in Cellbind!).

<i>article number</i>	<i>package</i>	<i>description</i>
K5010	3x10ml	Column Screen 123 <i>Three ready-for-use red cells suspensions (from Bg^a, Bg^b and Bg^c negative donors) for the detection of unknown erythrocyte antibodies</i>
K5020	16x3ml	Column Panel 16 <i>Sixteen ready-for-use red cell suspensions (from 16 donors) for the identification of unknown erythrocyte antibodies</i>

Cellbind (Immunofixation Test)

Cellbind is a micro column immunofixation system for screening and identification of unknown antibodies, crossmatch and typing of all blood group systems. All conventional techniques in tubes and cards are based on the principle of agglutination of red cells to visualise the reaction. Cellbind is based on a improved version of this principle!

Cellbind cards, reagents red cells and LISS

Cellbind cards

article number	package	description
K7000	48 cards	Cellbind Screen <i>48x6 tests, for the detection of IgG, IgM and complement sensitised erythrocytes in a LISS technique. One card for all: these cards can be used for screening, identification, crossmatching and typing!</i>
K7011	48 cards	Cellbind Direct <i>(IgG, C3d, ctrl.) 48x2 tests for the detection of IgG and/or C3d antibodies plus a negative control, suitable for LISS technique.</i>

Cellbind 0.5% red cell suspensions

article number	package	description
K7240	10ml	Cellbind A ₁ reagent red cells <i>Ready-for-use</i>
K7241	10ml	Cellbind A ₂ reagent red cells <i>Ready-for-use</i>
K7242	10ml	Cellbind B reagent red cells <i>Ready-for-use</i>
K7243	10ml	Cellbind 0, D-positive reagent red cells <i>Ready-for-use</i>
K7200	2x10ml	Cellbind P2 <i>Two ready-for-use red cell suspensions for the detection of unknown erythrocyte antibodies.</i>
K7210	3x10ml	Cellbind P3 <i>Three ready-for-use red cell suspensions (from Bg^a, Bg^b and Bg^c negative donors) for the detection of unknown erythrocyte antibodies.</i>
K7211	3x10ml	Cellbind P3-P <i>Three ready-for-use Papain treated red cell suspensions (from Bg^a, Bg^b and Bg^c negative donors) for the detection of unknown erythrocyte antibodies.</i>
K7230	16x3ml	Cellbind ID16 <i>Sixteen ready-for-use red cell suspensions (from 16 donors) for the identification of unknown erythrocyte antibodies.</i>
K7231	16x3ml	Cellbind ID16-P <i>Sixteen ready-for-use Papain treated red cell suspensions (from 16 donors) for the identification of unknown erythrocyte antibodies.</i>
K7100	250ml	Cellbind LISS <i>Modified LISS-solution; incubation medium for the preparation of 0.5% red cell suspensions of patient or donor erythrocytes or from commercial cell panels.</i>
K7110	100ml	Cellbind LISS <i>Modified LISS-solution; incubation medium for the preparation of 0.5% red cell suspensions of patient or donor erythrocytes or from commercial cell panels.</i>

Manual system



<i>article number</i>	<i>package</i>	<i>description</i>
K7300	piece	Cellbind Dispenser <i>for the addition of Cellbind LISS</i>
K7301	piece	Cellbind Workstation <i>holder for cards and tubes</i>
K7302	piece	Cellbind Centrifuge (without Rotor) <i>for 24 cards</i>
K7303	piece	Cellbind Rotor <i>part of Cellbind centrifuge</i>
K7304	piece	Cellbind Incubator <i>37°C incubator for 48 cards</i>
K7309	piece	Cellbind Reader (Cyclops 6) <i>for stand alone applications</i>

Magister - fully automated system



Magister is a fully automated blood bank system that will automate all routine testing procedures. The system is designed to utilise Cellbind cards in combination with reagents from Sanquin. With one universal Cellbind card all types of serology testing can be performed: blood group typing, crossmatching, DAT, antibody screening and identification.

<i>article number</i>	<i>package</i>	<i>description</i>
K7311	piece	Magister 2 needle
K7310	piece	Magister 4 needle

Quality control panels

Pelicheck panel

For daily routine internal quality control in patient typing and screening

The panel can be used in internal quality control procedures of the complete ABO rhesus D blood group typing, Rhesus-phenotyping, K and antibody screening (antiglobulin tests). Pelicheck panel contains two erythrocyte suspensions and two corresponding sera for validation of the efficacy of the reagents anti-A, anti-B, anti-AB, anti-D and the ABO reverse group red cells A₁ and B. Also the efficacy of the anti-human globulin and the screening cells will be tested. A third erythrocyte suspension is added as a positive control for anti-C, c, E, e and K reagents.

<i>article number</i>	<i>package</i>	<i>description</i>
K1380	5x10ml	Pelicheck panel containing 3x10ml 3% red cell suspension and 2x10ml sera

Pelicontrol (whole blood control)

For daily routine internal quality control in patient typing and screening

Pelicontrol panel can be used for validation of the performance of the complete ABO rhesus D blood group typing and antibody screening in all manual and automated techniques. The panel contains two whole blood samples for validation of the efficacy of the reagents: anti-A, anti-B, anti-AB, anti-D and the ABO reverse group reagent red cells A₁ and B. Also the efficacy of the anti-human globulin reagent (or Cellbind gel matrix) and the screening cells will be tested. In addition the preparation of all suspensions to be used in the test system can be validated.

<i>article number</i>	<i>package</i>	<i>description</i>
K1379	2x8ml	Pelicontrol panel containing 2x8ml whole blood samples

Pelicontrol CcEe-K

Additional positive control for anti-C, c, E, e and K reagents.

<i>article number</i>	<i>package</i>	<i>description</i>
K1399	1x8ml	Pelicontrol CcEe-K containing 1x8ml whole blood sample

Proficiency panels

PeliCase panels

Proficiency panels for blood group serology

The PeliCase panels consist of 'patient' red blood cells and 'patient' sera which will help the laboratory to develop and maintain skills on blood group serological procedures. These panels present case histories familiar to situations in your own laboratory. The expected results are included in a separate, closed envelope. PeliCase 1 can also be used for participating in Sanquin's Electronic (Internet) External Quality Control program!

<i>article number</i>	<i>description</i>
K1386	PeliCase 1 panel, consists of patient and/or donor samples. <i>PeliCase 1 represents a commonly encountered situation and requires only routine techniques for solution.</i>
K1387	PeliCase 2 panel, consists of patient and/or donor samples. <i>PeliCase 2 may require special techniques familiar to the experienced laboratory or may represent an unusual case not frequently encountered in routine testing</i>



PeliPIP - Panel Interpretation Program

A fast and reliable electronic aid in making exclusion panels and also for the identification of antibodies

Identification panel

To identify antibodies according to the Fisher Exact Method $P < 0.05$.

PeliPIP gives you the opportunity to perform a fast and reliable identification of one or more antibodies with electronically supplied composition tables of antigens, or manual input of other tables, with a total of 30 donor cells.

You enter the results: 0, 1+, 2+, 3+, 4+, into the program, and in a few seconds PeliPIP will calculate all options and will show you the possible antibodies. The input of enzyme treated panels is also available.

Exclusion panel

In a few seconds PeliPIP can produce a worklist with a selection of donor cells from the screening and identification panels used by your laboratory, to exclude in a simple way the presence of additional clinical relevant antibodies in patients who already have one or more antibodies.

article number

K3005

package

Software

description

PeliPIP software program

Textbook Immunohaematology



The textbook Immunohaematology comprises the following chapters:

- General Immunohaematology
- The ABO blood group system
- The Rhesus blood group system
- Other blood group systems
- Techniques for the detection of blood group antibodies
- Compatibility tests prior to blood transfusion
- Blood tests during and after pregnancy
- Auto Immune Haemolytic Anemia

article number

K3010

K3010EN

package

Book

Book

description

Erythrocytenserologie (Dutch version)

Immunohaematology (English version)

Platelet crossmatching

MASPAT

MASPAT is a solid-phase microwell plate system for the detection of platelet antibodies (anti-HLA and anti-HPA) in serum by testing donor platelets with patient serum in a crossmatching assay. The MASPAT kit contains sufficient reagents to test 36 patient-donor combinations. MASPAT Indicator Red Cells are supplied separately, so the MASPAT kit's expiration date is not limited by the relative short shelf-life of these cells.

article number	package	description
K1360	Kit	MASPAT kit <i>The kit contains: One pre-coated microtiter plate wells (12 x 8 well strips)</i> <i>1 ml MASPAT positive control</i> <i>1 ml MASPAT negative control</i> <i>10ml MASPAT LISS (low ionic strength solution)</i> <i>6ml MASPAT anti-IgG mouse monoclonal antibody</i>
K1139	10ml	MASPAT Indicator Red Cells <i>10ml 0.3% sensitised erythrocyte suspension</i>

Test principle

A monolayer of donor platelets is immobilised by centrifugation onto the surface of the microtiter plate wells, which is coated with platelet-specific (mouse) monoclonal antibody. Patient serum and low ionic strength solution (LISS) are incubated in the appropriate wells, allowing serum antibodies to bind to the immobilised platelet monolayer. After incubation, non-bound serum components are removed by washing. Platelet-bound antibodies are detected by the addition of mouse monoclonal anti-human IgG and human IgG sensitised erythrocytes (indicator red cells) and subsequent centrifugation of the microtiter plate. In case of a positive reaction the anti-human IgG and indicator red cells bind to the serum antibodies on the platelet monolayer. Positive reactions are thus characterised by adherence of indicator red blood cells throughout the surface of the wells, whereas negative reactions produce discrete pellets of indicator red cells in the middle of the well.

Thanks to the speed and simplicity of this method, most hospitals will be able to perform platelet antibody screening before routine platelet transfusions. But even in laboratories which do have access to HLA-typed donor panels, MASPAT will provide important information. It is the general experience that in a significant proportion of HLA-matched platelet transfusions administered to allo-immunised patients there is no satisfactory rise in platelet count. This is caused by platelet specific antibodies (HPA).

IgG subclass reagents

Haemolytic disease in adults and newborns may be caused by the presence of anti-erythrocyte auto-antibodies. Such antibodies, bound to the red cell membrane in vivo, can be detected in the direct antiglobulin test (DAT). In case of a positive DAT due to IgG antibodies it is important to determine the IgG isotype of the antibodies, because sequestration of sensitised red cells is dependent on the IgG subclass of the antibody. This is caused by differences between IgG subclasses in their ability to activate complement and to bind to Fc receptors on phagocytic cells. In general, the haemolytic effect of the IgG subclasses ranges from low to high in the following order: IgG4<IgG2<IgG1<IgG3.

PeliClass antisera for agglutination techniques

The reagents for agglutination are designed for the detection of immunoglobulins bound to human erythrocytes. The antisera are adsorbed to human ABO cells and have a very high specificity. No cross-reactivity is detectable with human serum proteins other than the intended IgG subclass.

article number	package	description
M1099	1ml	anti-human IgG1 (sheep)
M1101	1ml	anti-human IgG2 (sheep)
M1103	1ml	anti-human IgG3 (sheep)
M1105	1ml	anti-human IgG4 (sheep)
M1174	5x1ml	set of above-mentioned anti-human IgG subclass antisera (control serum included)

control serum

article number	package	description
M1397	1ml	control serum, as reference for agglutination

Human IgG subclasses

Decreased or increased levels of IgG subclasses in serum are associated with several diseases.

Deficiencies of IgG subclasses are an indication of a disturbed immune response, although asymptotically decreased IgG subclass levels may occur as well.

Sanquin manufactures a broad range of kits and reagents for the determination of IgG subclass concentrations.

Human IgG subclasses

Overview of the IgG subclass products

PeliClass™ nephelometry, CE IVD

<i>description</i>	<i>kit / set</i>	<i>anti-IgG1</i>	<i>anti-IgG2</i>	<i>anti-IgG3</i>	<i>anti-IgG4</i>	<i>standard</i>	<i>control</i>
PeliClass™ IMMAGE Plus/ IMMAGE 800 Plus kit	M1895						
PeliClass™ IMMAGE Plus/ IMMAGE 800 Plus antisera		M1891	M1892	M1893	M1894		
IMMAGE Plus/ IMMAGE 800 Plus standard and control sera						M1896	M1897 (control 1) M1898 (control 2)

PeliRiDe™ immunodiffusion precipitation techniques, CE IVD

<i>description</i>	<i>kit / set</i>
PeliRiDe™ kit	M1557

PeliClass™ agglutination test, CE IVD

<i>description</i>	<i>kit / set</i>	<i>anti-IgG1</i>	<i>anti-IgG2</i>	<i>anti-IgG3</i>	<i>anti-IgG4</i>	<i>control</i>
PeliClass™ antisera also see p. 15	M1174	M1099	M1101	M1103	M1105	M1397

PeliClass™ enzyme-linked immunosorbent assay (ELISA), CE IVD

<i>description</i>	<i>kit / set</i>
PeliClass™ ELISA kit	M1551

Quality Survey

<i>article number</i>	<i>description</i>
M1623	Quality Survey Samples

PeliClass™ monoclonal antibodies

The (ion-)chromatographically purified immunoglobulin fractions are available both unlabelled and as horseradish peroxidase (HRP-)conjugated. The origin of the monoclonal antibodies is mouse. The antibody concentration is approximately 1 mg/ml. M1325, M1326 and M1270 do not cross-react with IgG molecules of goat, horse, pig, rabbit and sheep. M1271 does not cross-react with IgG molecules of rabbit, but does cross-react with IgG molecules of goat and sheep. M1326 does cross-react with bovine IgG molecules.

<i>article number</i>	<i>package</i>	<i>description</i>
PeliClass™ antibodies, unlabelled		
M1325	1ml	anti-human IgG1 (Fc), clone MH161-1, HP6188
M1326	1ml	anti-human IgG2 (Fab), clone MH162-1, HP6014
M1270	1ml	anti-human IgG3 (hinge), clone MH163-1, HP6095
M1271	1ml	anti-human IgG4 (C _H 3), clone MH164-4, HP6196
PeliClass™ antibodies, HRP-labelled		
M1328	1ml	anti-human IgG1 (Fc), clone MH161-1, HP6188
M1329	1ml	anti-human IgG2 (Fab), clone MH162-1, HP6014
M1330	1ml	anti-human IgG3 (hinge), clone MH163-1, HP6095
M1331	1ml	anti-human IgG4 (C _H 3), clone MH164-4, HP6196

Notes

Cytokines, granzymes and related proteins

ELISA and ELISPOT are valuable tools for immunology research. Our range of ELISA kits is especially focused on the detection of cytokines, granzymes and perforin levels. The supplementary reagents and instruments for ELISA and ELISPOT have been developed to simplify assay procedure and to guarantee high-quality assay performance.

Product categories

- **Pelikine ELISA kits**

Offered from 'ready-to-use' to 'do-it-yourself format' to meet the requirements of customers.

- **ELISA supplementary reagents**

Chemicals and solutions for convenience and reproducible results.

- **ELISPOT reagents and instruments**

Reagents to improve ELISPOT assay performance and A.EL.VIS. analysers for easy and fast determination of spots.

- **PeliKine recombinant proteins**

High quality and pure recombinant proteins and growth factors with high biological activity.

Cytokines, granzymes and related proteins

ELISA products

We offer a range of ELISA kits for cytokines and granzymes. The PeliKine kits are available as complete kit, compact kit or reagent set. The optimised and easy-to-follow IFU included in the kits warrants reliable assay results.

PeliKine™ complete human cytokine ELISA kits, 96 tests (1 plate)

Contains one pre-coated micro-well plate (8-well strips) and all reagents for 96 tests (including calibration curves).

<i>article number</i>	<i>cytokine</i>	<i>sensitivity</i>	<i>standard range</i>
M1906	IL-6	0.3 pg/ml	0.3 - 80 pg/ml
M1920	TNF- α	1.0 pg/ml	1.4 - 1000 pg/ml
M1921	IFN- γ	1.0 pg/ml	2 - 450 pg/ml

PeliKine™ compact human cytokine ELISA kits, 288 tests (3 plates)

Contains all essential components with the exception of buffers and enzyme substrates for 288 tests (including calibration curves).

<i>article number</i>	<i>cytokine</i>	<i>sensitivity</i>	<i>standard range</i>
M1934	IL-1 β	0.8 pg/ml	0.4 - 300 pg/ml
M1914	IL-4	0.2 pg/ml	0.6 - 450 pg/ml
M1916	IL-6	0.2 pg/ml	0.6 - 450 pg/ml
M1918	IL-8	1.0 pg/ml	1 - 240 pg/ml
M1910	IL-10	1.0 pg/ml	1 - 300 pg/ml
M1913	IL-13	0.5 pg/ml	0.5 - 125 pg/ml
M1923	TNF- α	1.0 pg/ml	1 - 1000 pg/ml
M1933	IFN- γ	1.0 pg/ml	2 - 500 pg/ml
M1960	sCD-27	1.0 U/ml	1 - 100 U/ml
M1935 Granzyme-A	M1935	<20.0 U/ml	4.9 - 1200 U/ml
M1936 Granzyme-B	M1936	<10.0 U/ml	4.0 - 960 U/ml

PeliPair™ reagent sets, 1824 tests (19 plates)

The set contains 5 times the coating antibody and biotinylated detection antibody as well as the cytokine standard from the compact kits, and is sufficient for 1824 tests (including calibration curves).

<i>article number</i>	<i>cytokine</i>
M9334	IL-1 β
M9314	IL-4
M9316	IL-6
M9318	IL-8
M9310	IL-10
M9313	IL-13
M9323	TNF- α
M9333	IFN- γ

ELISA supplementary reagents

<i>article number</i>	<i>package</i>	<i>description</i>
M1980	kit	PeliKine™ toolset

(288 test samples) components:

- coating buffer
- PBS
- wash buffer; stop buffer
- TMB substrate solution

<i>article number</i>	<i>package</i>	<i>description</i>
M2051	0.1ml	poly-HRP labelled with streptavidin, 1 mg/ml
M2032	1ml	poly-HRP labelled with streptavidin, 1 mg/ml
M2052	100ml	casein colloid buffer 5% to dilute poly-HRP
M1940	55ml	HPE dilution buffer to dilute samples and poly-HRP, eliminating matrix effects
M1941	2ml	Blocking buffer

PeliKine recombinant proteins

Since 2009 we market our own line of human, murine and rat recombinant proteins. The PeliKine recombinant proteins are E. coli, insect, and mammalian cell-derived. We are dedicated to provide the highest quality cytokine products, our proteins are therefore analysed for authenticity, purity, biological activity, protein content, endotoxin contamination and microbiological contamination. Our PeliKine recombinant proteins are available in the Benelux.

Our PeliKine recombinant protein portfolio includes:

- Chemokines
- Interferons
- Interleukins
- TGF-beta / BMP proteins
- Angiogenesis proteins
- Immunoregulatory proteins
- Cell growth factors
- Adipokines
- Neurotrophins
- FGF proteins
- TNF Ligands / Receptors
- Other recombinant proteins

With the current speed of scientific advancements, new recombinant proteins are demanded regularly and we frequently expand our product portfolio. An up-to-date list of our selection of recombinant proteins can be found on our website www.sanquinreagents.com.

ELISPOT products

ELISPOT supplementary reagents

<i>article number</i>	<i>package</i>	<i>description</i>
M2540	50ml	ELISPOT™ buffer
M2051	0.1ml	Streptavidin poly-HRP
M2032	1ml	Streptavidin poly-HRP
M2521	18ml	TMB for ELISPOT™

AELVIS ELISPOT analysers

The AELVIS ELISPOT analysers come as a complete installed system including scanner unit, PC or notebook with Windows XP Professional and ELISPOT Analysis Software, TFT screen, color ink printer and a two-year warranty.

<i>article number</i>	<i>description</i>
M7202	Eli.Scan <i>High-quality CCD scan-unit that is designed for measurement of 96-well ELISPOT membranes or foils. Recommended for research labs that run limited numbers of plates.</i>
M7208	Eli.Scan+ <i>Universal plate scanner suitable for analysis of multiple spot assays e.g. ELISPOT Assay, IFUSPOT Assay, Plaque Assay or colony counting in 6/12/24/48 and 96 well plates.</i>

AELVIS supplementary products

<i>article number</i>	<i>description</i>
M7206	Eli.Foil <i>Special foils for Millipore plates and 96 well puncher (25 foils/pack). Specially designed adhesive foil for punching out the membrane bottoms with Eli.Punch. Enables easy use on the scanner and simple storage. Eli.Foil has been designed for Millipore Multiscreen Plates (types MAIP/MAHA/MHAB).</i>
M7205	Eli.Punch <i>96-channel puncher for Millipore plates preferably used with the specially designed Eli.Foil. Enables easy preparation of the plate for reading within 10 seconds.</i>
M7210	Eli.Analyse <i>Eli.Analyse empowers AELVIS instruments to analyse data (not to acquire data). In addition, the software package is available as a stand-alone version for offline analysis. The software is user friendly with emphasis on productivity and flexibility.</i>

Reagents for flow cytometry

We offer a range of high-quality MHC-multimers and monoclonal antibodies to CD markers on human leukocytes and non-clustered/granzyme antibodies. Our antibodies can be obtained purified, neat, or FITC/PE-labelled. Antibodies are either CE marked and can be used for diagnostic purposes or are for Research Use Only (RUO).

Product categories

- **PeliMers, the Sanquin tetramers**
PE and APC labelled human and murine MHC-multimers for T cell research.
- **PeliCluster monoclonal antibodies**
Purified, FITC or PE-labelled monoclonal antibodies to CD markers or non-clustered/granzymes for use in flow cytometry or fluorescence microscopy.
- **PeliCluster cell-stimulating antibodies**
T cell-stimulating antibodies designed to study proliferation and functional activity of T cells.

Reagents for flow cytometry

PeliMers, MHC-multimers

Currently we are able to provide 9 human MHC Class I alleles and 2 murine MHC Class I alleles (table 1). Our range of alleles is continuously expanding; if the required allele is not listed please contact us.

PeliMers can be available from stock or are custom made. For regular MHC-multimers, please inquire for stock situation and delivery times at reagents@sanquin.nl or +31 20 512 35 99.

Custom made PeliMers are manufactured with peptides of your choice. The peptide of choice can be ordered together with your order for the custom made PeliMer. Custom made PeliMers are available with the alleles described in table 1. Please inquire for delivery times. We also produce monomers on request.

The Pelimers are available per 50 tests.

PeliMer article numbers are composed of the number given to the species, followed by the number for the MHC Class allele, the fluorochrome (see table 1), and by the first 5 letters of the peptide to be used.

Table 1

Human alleles (M24.....)	PE	APC	Murine alleles (M27.....)	PE	APC
HLA-A*0101	M2425	M2426	H2-Kb	M2710	M2711
HLA-A*0201	M2427	M2428	H2-Db	M2712	M2713
HLA-A*0301	M2429	M2430			
HLA-A*1101	M2431	M2432			
HLA-B*0702	M2433	M2434			
HLA-B*0801	M2435	M2436			
HLA-B*2705	M2441	M2442			
HLA-B*3501	M2437	M2438			
HLA-B*5701	M2439	M2440			

PeliCluster™ monoclonal antibodies

The purified (neat) monoclonal antibodies (1ml, 0.2 mg) are sufficient for at least 200 tests with e.g. fluorescence microscopy. Fluorescein-labelled (FITC) monoclonal antibodies, phycoerythrin-labelled (PE) monoclonal antibodies (1ml) are sufficient for at least a 100 tests in flow cytometry. All purified, neat, antibodies are for Research Use Only (RUO). Most labelled monoclonal antibodies are CE marked and can be used for diagnostic purposes.

CD monoclonal antibodies

Neat	article number		CD	iso type	clone name
	FITC	PE			
M1314	M1465		CD2	IgG1	CLB-T11/1, 6G4
M1306	M1466		CD3	IgG2a	CLB-T3/2, 16A9
M1308	M1467		CD4	IgG2a IgG1	CLB-T4/1, 10A12 CLB-T4/2, 6D10
M1310	M1602	M1649	CD5	IgG1	CLB-T1/1, 1C12
M1339	M1567		CD7	IgG2a	CLB-T-3A1/1, 7F3
M1312	M1468	M1629	CD8	IgG2b	CLB-T8/4, 4H8
M1362	M1666		CD9	IgG2a	CLB-thromb/8, 4E1
		M1692	CD10	IgG2a	CLB-CALLA/1, 4F9
M1385	M1667		CD11a	IgG2a	CLB-LFA-1/2, TB 133
M1386	M1668		CD11b	IgM	CLB-mon-gran/1, B2
M1387	M1568	M1726	CD13	IgG2a	CLB-mon-gran/2, Q20
M1388	M1430	M1661	CD14	IgG2a	CLB-mon/1, 8G3
M1336	M1435		CD15	IgM	CLB-gran/2, B4
M1389	M1604	M1690	CD16	IgG2a	CLB-FcR gran/1, 5D2
M1390			CD16b	IgG2a	CLB-gran/11, 5D7
M1344	M1669		CD18	IgG1	CLB-LFA-1/1, 54
M1345	M1436		CD19	IgG1	CLB-B4/1, 11G1
M1391	M1437	M1727	CD22	IgG1	CLB-B-ly/1, 6B11
M1361	M1605		CD24	IgG1	CLB-gran-B-ly/1, IB5
M1335	M1680	M1728	CD25	IgG2b	CLB-IL2R/1, TB 30
M1455	M1764		CD27	IgG2a	CLB-CD27/1, 9F4

<i>Neat</i>	<i>article number</i>		<i>CD</i>	<i>iso type</i>	<i>clone name</i>
	<i>FITC</i>	<i>PE</i>			
M1456			CD28	IgG1	CLB-CD28/1,15E8
M2241	M2180			IgG1	KOLT-2
M1536			CD31	IgG1	CLB-HEC-75
M2202			CD32	IgG1	CIKm5
M1585	M1606		CD33	IgG1	CLB-MD33.6
M1636		M2284	CD34	IgG1	CLB-MD34.2
				IgG1	581
	M1613		CD36	IgG1	CLB-IVC7
M1642			CD38	IgM	CLB-ID5
M1691			CD40	IgM	CLB-14G7
M1538	M1674		CD41	IgG1	CLB-tromb/7, 6C9
M1539	M1638	M1729	CD42b	IgG1	CLB-MB45
M1637			CD42d	IgG1	CLB-SW16
	M2183		CD43	IgG1	DFT1
	M1678		CD44	IgG1	NKI-P2
	M1491		CD45	IgG1	CLB-T200/1, 15D9
	M2113		CD45RO	IgG2a	UCHL1
		M2112	CD45RA	IgG1	F8-11-13
M1540			CD49b	IgG1	CLB-tromb/4, 10G11
M1586			CD49e	IgG2b	NKI-SAM-1
M1566	M1672		CD49f	IgG2a	NKI-GoH3 (rat)
M1541			CD51	IgG1	NKI-M9
	M2192		CD55	IgG1	143-30
		M2277	CD56	IgG1	B159
	M2191		CD59	IgG2a	MEM 43
M1355	M1592		CD61	IgG1	CLB-tromb/1, C17
M1543		M1706	CD62P	IgG1	CLB-tromb/6, C2
M1544		M1698	CD63	IgG1	CLB-gran/12, 435
M1546	M1594		CD66b	IgG1	CLB-B13.9

<i>Neat</i>	<i>article number</i>		<i>CD</i>	<i>iso type</i>	<i>clone name</i>
	<i>FITC</i>	<i>PE</i>			
M1545	M1643	M1693	CD66 acde	IgG1	CLB-gran/10, IH4Fc
		M2282	CD69	IgG2b	TP1.55.3
M1705			CD70	IgG1	CLB-2F2
M2160	M2162		CD71	IgG1	RVS10
	M1735		CD95	IgG1	FAS19
	M1722		CD103	IgG2a	2G5
M1765			CD105	IgG1	CLB-HEC-19
	M2189		CD122	IgG2a	MIK- 1
M1663		M2287	CD138	IgG1	CLB-1D4
M1365	M1593	M1732	CD235a	IgG1	CLB-AME-1

Controls

<i>Neat</i>	<i>article number</i>		<i>controls</i>
	<i>FITC</i>	<i>PE</i>	
M1451	M1453	M1628	IgG1
M1452	M1454	M1697	IgG2a
	M2190	M2230	IgG2b

Non clustered antibodies / granzyme antibodies

<i>Neat</i>	<i>article number</i> <i>FITC</i>	<i>antibody</i>	<i>iso type</i>	<i>clone name</i>	<i>description</i>
M1464	M1703	MPO	IgG2a	CLB-MPO-1/1, 7.17	pan myeloid (AML marker), myeloperoxidase, gp55-15
M1700		LTF	IgG1	CLB-13.17	myeloid range from myelocyte on, lactoferrin, gp82
M1338	M1607	HLA-DR	IgG1	CLB-HLA-Dr, 1E5	HLA-class II
M1574		ANCA	IgG1	CLB-12.8	myeloid lysosomal serine protease (PR3)
GA6	M1791		IgG1	GA6	Granzyme A

<i>Neat</i>	<i>article number</i>		<i>antibody</i>	<i>iso type</i>	<i>clone name</i>	<i>package</i>	<i>description</i>
	<i>FITC</i>	<i>PE</i>					
M1754			GB7	IgG2a	GB7	200µg in 0.1ml	Granzyme B
M1755		M1793	GB10	IgG1	GB10	200µg in 0.1ml	Granzyme B
M1756	M2289		GB11	IgG1	GB11	200µg in 0.1ml	Granzyme B

Lysing solution

<i>article number</i>	<i>package</i>	<i>description</i>
M7101.6	6x10ml	PeliLyse buffer A1, no-wash-lysing solution, stock for 300 tests

PeliCluster™ cell-stimulating antibodies

Among the more than 339 CD markers on the membrane of human leucocytes known today, those directly involved in functional activities are of particular interest, since these are the target molecules to study the immune system at a cellular level. Some monoclonal antibodies can stimulate T cells into proliferation spontaneously or in the presence of a 'second signal'. The Sanquin T cell-stimulating antibodies have applications in research as well as in clinical diagnostics, e.g. to study immunocompetence in immunocompromised patients. The monoclonal antibody solutions are 0.22µm filtered (200µg/0.1ml).

<i>article number</i>	<i>CD</i>	<i>isotype</i>	<i>clone name</i>
M1651	CD2	IgG1	CLB-T11.1/1, 6G4
M1652	CD2	IgG1	CLB-T11.2/1, 4B2
M1653	CD2	IgG1	CLB-HIK27
M1654	CD3	IgE	CLB-T3/4.E, 1XE
M1655	CD3	IgG2a	CLB-T3/2, 16A9
M1650	CD28	IgG1	CLB-CD28/1, 15E8

Other reagents and kits

Mannose Binding Lectin kit (ELISA), CE IVD

Mannose Binding Lectin (MBL) is an important factor in the innate immunity. MBL recognises carbohydrate patterns found on the surface of a large number of pathogenic micro-organisms, including bacteria, viruses, protozoa and fungi.

<i>article number</i>	<i>package</i>	<i>description</i>
M1990	kit	Mannose Binding Lectin ELISA kit

components:

- three microtitre plates
- coat for microtitre plates (mannan)
- calibrator and control sera
- wash and dilution buffers (concentrated)
- anti-human MBL-HRP (100-fold concentrated)
- reference values for human MBL

Anti-prion monoclonal antibody (clone 1E4)

Monoclonal antibody 1E4 binds to PrP^{Sc} with high affinity, whereas it has low affinity for non-digested PrP^{Sc}. This makes McAb 1E4 a highly interesting antibody in current prion research.

<i>article number</i>	<i>package</i>	<i>description</i>
M1839	0.25ml	neat antibody, concentration 0.5 mg/ml
M1840	0.25ml	biotinylated antibody, concentration 0.5 mg/ml
M1841	0.25ml	HRP conjugated antibody, concentration 0.5 mg/ml

Monoclonal antibodies to serum proteins (human)

Monoclonal antibodies are of mouse origin. The concentration of antibody is approximately 1 mg/ml.

<i>article number</i>	<i>package</i>	<i>description</i>
M1265	1ml	anti-human IgA (MoHu 14)
M1267	1ml	anti-human IgM (MoHu 15)
M1268	1ml	anti-human IgG (MoHu 16)
M1294	1ml	anti-human IgE (MoHu 25)
M1272	1ml	anti-human light chain, type kappa (MoHu 19)

Polyclonal antibodies to serum proteins, precipitation techniques

Reagents for precipitation techniques are developed for use in immuno-electrophoresis, Ouchterlony or Mancini. On request, information is available for other techniques.

<i>article number</i>	<i>package</i>	<i>description</i>
		antisera
M1015	2ml	anti-human IgA (RbHu14 P)
M1019	2ml	anti-human IgM (RbHu15 P)
M1023	2ml	anti-human IgG (RbHu16 P)
M1037	2ml	anti-human IgE (RbHu25 P)
M1031	2ml	anti-human light chain, type kappa (RbHu19 P)
M1044	2ml	anti-human light chain, type lambda (RbHu29 P)
M1050	2ml	anti-human Bence-Jones protein, kappa chain (RbHu37 P)
M1051	2ml	anti-human Bence-Jones protein, lambda chain (RbHu38 P)
M1027	2ml	anti-human immunoglobulins (RbHu17 P)
M1053	2ml	anti-human C3d (α 2D) (RbHu42 P)
M1076	2ml	anti-human total serum (HoHu00 P-2)
M1079	100ml	anti-human total serum (HoHu00 P-100)
M1001	2ml	anti-human albumin (RbHu02 P)
M1258	2ml	anti-human clotting factor II (RbHu52 P)

Polyclonal antibodies to serum proteins, nephelometric techniques

Reagents for nephelometric techniques are developed for research use only (RUO) in nephelometers. Specific settings are included with several products.

<i>article number</i>	<i>package</i>	<i>description</i>
M1087	2ml	anti-human IgM (ShHu15 N)
M1090	2ml	anti-human IgG (ShHu16 N)
M1223	2ml	anti-human C1q (ShHu43 N)
M1229	2ml	anti-human albumin (ShHu02 N)
M1323	2ml	anti-human α 1-antitrypsin (ShHu03 N)

Labelled antibodies to serum proteins

article number *package* *description*

FITC-labelled polyclonal antibodies to human serum proteins

M1017	1ml	anti-human IgA (RbHu14 F)
M1021	1ml	anti-human IgM (RbHu15 F)
M1025	1ml	anti-human IgG (RbHu16 F)
M1094	1ml	anti-human total immunoglobulins (ShHu17 F)

FITC-labelled F(ab')₂ fragments against human serum proteins

M1022	1ml	F(ab') ₂ anti-human IgM, (Rb26Hu15 F)
M1026	1ml	F(ab') ₂ anti-human IgG, (Rb26Hu16 F)

HRP-labelled polyclonal antibodies to animal serum proteins

M1235	1ml	(goat) anti-mouse immunoglobulins (GoMo17 E)
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FITC-labelled polyclonal antibodies to animal serum proteins

M1109	1ml	(horse) anti-rabbit immunoglobulins (HoRb17 F)
M1204	1ml	(goat) anti-mouse immunoglobulins (GoMo17 F)

Normal animal sera

article number *package* *description*

without sodium azide

M1184	10ml	normal goat serum
M1530	100ml	normal goat serum
M1250	1ml	normal mouse serum

with sodium azide

M1533	100ml	normal goat serum
M1478	1ml	normal mouse serum

Normal human plasma

Normal human plasma pool (NPP) is prepared of fresh (not frozen) quarantine plasma of the Sanquin Blood Bank. NPP is delivered in a box containing 25 vials with 1.5ml plasma per vial.

article number *package* *description*

M2006	25x1.5ml	normal human plasma pool
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B reagent red cells, 10ml	K1142	8
Blocking Buffer, 2ml	M1941	22
Bromelin (lyophilized), 5ml	K1121	8
BSA 22%, 10ml	K1106	8
BSA 30%, 10ml	K1107	8
casein, colloid buffer (5%)	M2052	22
CD10 PE, phycoerythrin-labelled	M1692	26
CD103 F, FITC-labelled	M1722	28
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CD11a F, FITC-labelled	M1667	26
CD11a, 1ml	M1385	26
CD11b F, FITC-labelled	M1668	26
CD11b, 1ml	M1386	26
CD122 F, FITC-labelled	M2189	28
CD13 PE, phycoerythrin-labelled	M1726	26
CD13, 1ml	M1387	26
CD138 PE, phycoerythrin-labelled	M2287	28
CD138, unlabelled	M1663	28
CD13F, FITC-labelled	M1568	26
CD14 FITC, 100 tests	M1430	26
CD14 PE, phycoerythrin-labelled	M1661	26
CD14, 1ml	M1388	26
CD15 FITC, 100 tests	M1435	26
CD15, 1ml	M1316	26
CD16 FcRgran1, 1ml	M1389	26
CD16 PE, phycoerythrin-labelled	M1690	26
CD16b gran/11, 1ml	M1390	26
CD16F, FITC-labelled	M1604	26
CD18 F, FITC-labelled	M1669	26
CD18, 1ml	M1344	26
CD19 FITC, 100 tests	M1436	26
CD19, 1ml	M1345	26
CD2 FITC, 100 tests	M1465	28
CD2, 1ml	M1314	26
CD2, unlabelled	M1651	29
CD2, unlabelled	M1652	29
CD2, unlabelled	M1653	29
CD22 PE, phycoerythrin-labelled	M1727	26
CD235a (Ery/1), 1ml	M1365	28
CD235a F, FITC-labelled	M1593	28
CD235a PE, phycoerythrin-labelled	M1732	28
CD24, 1ml	M1361	26
CD24F, FITC-labelled	M1605	26
CD25 F, FITC-labelled	M1680	26
CD25 PE, phycoerythrin-labelled	M1728	26
CD25, 1ml	M1315	26
CD27 F, FITC labelled	M1764	27
CD27, 1ml	M1455	27
CD28 F, FITC-labelled	M2180	28
CD28, 1ml	M1456	27
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CD3 FITC, 100 tests	M1466	28
CD3, 1ml	M1306	26
CD3, unlabelled	M1654	29
CD3, unlabelled	M1655	29
CD31, 1ml	M1536	27
CD31, unlabelled	M1585	27
CD31F, FITC-labelled	M1606	27
CD32, unlabelled	M2202	27
CD34 PE, phycoerythrin-labelled	M2284	27
CD34, unlabelled	M1636	27
CD36F, FITC-labelled	M1613	27
CD38, unlabelled	M1642	27
CD4 FITC, 100 tests	M1467	28
CD4, 1ml	M1308	26
CD40, unlabelled	M1691	27
CD41 F, FITC-labelled	M1674	27
CD41, 1ml	M1538	27
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CD42b PE, phycoerythrin-labelled	M1729	27
CD42b, 1ml	M1539	27
CD42d, unlabelled	M1637	27
CD43 F, FITC-labelled	M2183	27
CD44 F, FITC-labelled	M1678	27
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CD51, 1ml	M1541	27
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CD56 PE, phycoerythrin-labelled	M2277	27
CD59 F, FITC-labelled	M2191	27
CD5F, FITC-labelled	M1602	26
CD61, 1ml	M1355	27
CD61F, FITC-labelled	M1592	27
CD62P PE, phycoerythrin-labelled	M1706	27
CD62p, 1ml	M1543	27
CD63 PE, phycoerythrin-labelled	M1698	27
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CD66acde F, FITC-labelled	M1643	28
CD66acde PE, phycoerythrin-labelled	M1693	28
CD66acde, 1ml	M1545	28
CD66b, 1ml	M1546	28
CD66bF, FITC-labelled	M1594	28
CD69 PE, phycoerythrin-labelled	M2282	28
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CD70, unlabelled	M1705	28
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CD8 PE, phycoerythrin-labelled	M1629	26
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Cellbind A ₂ reagent red cells 0.5%, 10ml	K7241	11
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Cellbind Direct	K7011	11
Cellbind Dispenser	K7300	12
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Cellbind ID16, 16x3ml	K7230	11
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Cellbind LISS, 100ml	K7110	11
Cellbind LISS, 250ml	K7100	11
Cellbind O, D-positive reagent red cells 0.5%, 10ml	K7243	11
Cellbind P2, 2x10ml	K7200	11
Cellbind P3-P, 3x10ml	K7211	11
Cellbind P3, 3x10ml	K7210	11
Cellbind Reader (Cyclops 6)	K7309	12
Cellbind Rotor	K7303	12
Cellbind Screen, 48x6 tests	K7000	11
Cellbind Workstation	K7301	12
Column panel 16, 0.8%, 16x3ml	K5020	10
Column screen123, 0.8%, 3x10ml	K5010	10
contr. IgG1 FITC, 100 tests	M1453	28
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Granzyme B, GB10, unlabelled	M1755	28
Granzyme B, GB11 PE, phycoerythrin-labelled	M2289	28
Granzyme B, GB11, unlabelled	M1756	28
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Makropanel 16P (papain), 16x3ml	K1384	10
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monospecific anti-human IgG(green), 10ml	K1124	7
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Normal Human Plasma Pool	M2006	35
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PEG 4000 20% solution, 20ml	K1159	8
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PeliClass anti-human IgG4 Plus, latex based, for IMMAGE / IMMAGE 800	M1894	17
Peliclass ELISA combikit IgG1+2+3+4,2pl.	M1551	17
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Pelikloon anti-A (IgM), 10x10ml	K118810	5
Pelikloon anti-A (IgM), 3x10ml	K11883	5
Pelikloon anti-A,B (IgM), 10x10ml.	K119010	5
Pelikloon anti-B (IgM), 10x10ml	K118910	5
Pelikloon anti-B (IgM), 3x10ml	K11893	5
Pelikloon anti-C (IgM), 5ml	K1195	5
Pelikloon anti-c (IgM), 5ml	K1196	5
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Pelikloon anti-C3d, 5ml	K1377	7
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Pelikloon anti-D mix (IgG/IgM), 10x10ml	K115710	5
Pelikloon anti-E (IgM), 5ml	K1191	5
Pelikloon anti-e (IgM), 5ml	K1197	5
Pelikloon anti-E (IgM), 5ml, second line	K1204	6
Pelikloon anti-e (IgM), 5ml, second line	K1205	6
Pelikloon anti-Jk ^a (IgM), 2ml	K1300	6
Pelikloon anti-Jk ^b (IgM), 2ml	K1301	6
Pelikloon anti-k (IgM) monoclonal, 2ml	K1310	6
Pelikloon anti-K (IgM), 5ml	K1199	6
Pelikloon anti-Le ^a (IgM), 2ml	K1316	6
Pelikloon anti-Le ^b (IgM), 2ml	K1317	6
Pelikloon anti-M (IgG), 2ml	K1302	6
Pelikloon anti-P ₁ (IgM), 2ml	K1305	6
Pelikloon anti-S (IgM), 2ml	K1304	6
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Pelikloon polyspecific, 10ml	K1193	7
Pelikloon polyspecific (green), 10ml	K1194	7
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Notes

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