Solidscreen™ II

The Definitive Test for Detecting Transfusion-Related Antibodies

The Complete Solution for Safe Transfusion

BIO-RAD

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Solidscreen™ II plates are composed of test wells that have been coated with Protein A. Protein A exhibits a high binding affinity for the Fc region of immunoglobulins. The method used for the Indirect and Direct Antiglobulin Test on the Solidscreen™ II plates is solid phase technology. If red blood cell alloantibodies and/or autoantibodies are present in the sample to be tested they will bind to the reagent red blood cells. Unbound antibody is removed by washing. Anti-Human Globulin specially formulated for the Solidscreen™ II assay forms a link between the protein A on the surface of the microwell and the sensitized red blood cells. A layer of red blood cells will form on the bottom of the microwell. Cells that are not coated with antibodies will sediment to the bottom of the well to form a cell button.

The advantage of solid phase technology is that even weak clinically relevant antibodies can be detected accurately.

Solidscreen II – a Test System for all Applications:

- Antibody screening with pool cell, 2, 3 or 4 test red cells
- Antibody identification with 8 or 11 test red cells
- Serological compatibility testing
- Antibody screening and identification with enzyme-treated test red cells
- Auto control
- Antibody titration
- Direct Anti-Human Globulin Test

The Solidscreen II system enables secure detection of transfusion relevant red cell antibodies, including the immunoglobulin subclasses IgG, IgM, IgA and the complement components. Cold reactive antibodies are generally not detected.

Specific AHG reagents meet all the requirements for patient and blood donor testing.

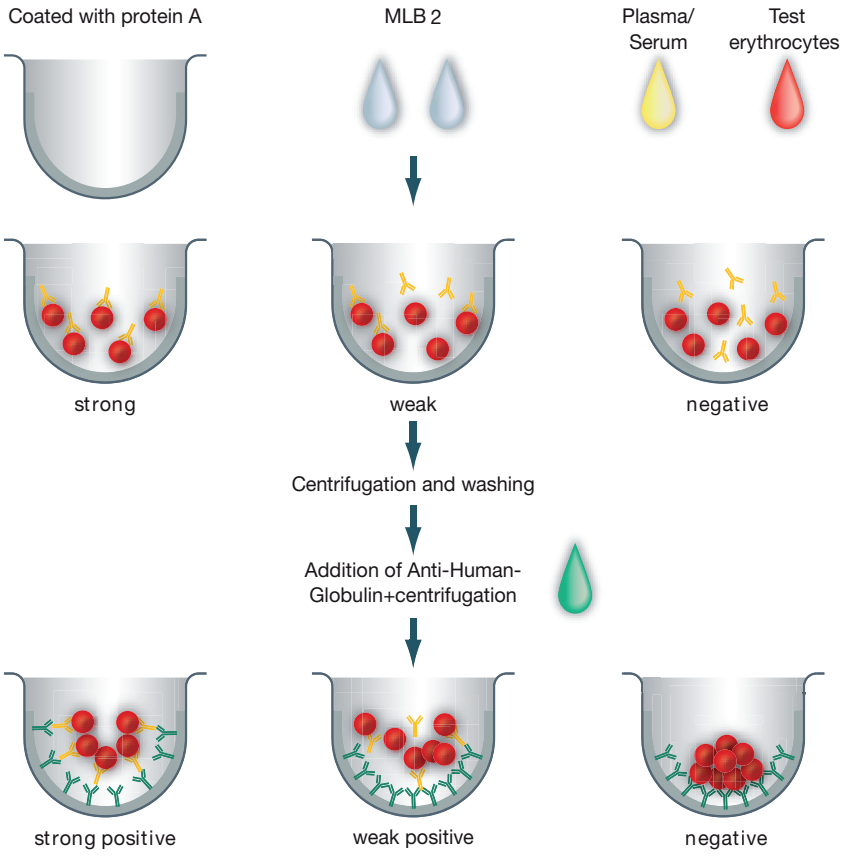
Anti-Human Globulin Solidscreen II:
For use in patient testing. Modified polyspecific antihuman globulin detects erythrocytes coated with IgG, IgM and IgA antibodies and/or with complement components.

Anti-Human Globulin Solidscreen II-Donor:
Specifically to be used for detection of clinically relevant antibodies in blood-donors. In contrast to Anti-Human Globulin Solidscreen II, complement components are not detected.
From the pool cell for donor diagnostics, the two or three cell screening panels for antibody screening, through to the eight or eleven cell panels for antibody identification there is always a suitable choice for every specific diagnostic need.

Solidscreen II Compact

- Compact microwell plates **for semiautomated processing of large sample runs**
- Processing large sample runs is **particularly cost-effective** with the compact slide
- Magnifying mirror and photometrical interpretation **ensure optimal analysis**

Solidscreen II



Solidscreen II Strip

- The development of the microwell strip tray **enables fully-automated antibody diagnostics with the TANGO™ optimo or TANGO infinity™**
- Color digital high resolution images allow **easy interpretation and documentation of the results**
- Bar-coded frames and individual strips **ensure the highest possible safety**

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Ordering Information

Catalog No.	Description
	Solidscreen II Reagents
806 520	Solidscreen™ II Compact . . . . . .10 plates (1 microtest plate = 96 wells)
806 521	Solidscreen™ II Strip . . . . . .10 plates (1 microtest plate = 12 strips of 8 wells)
806 515	Anti-Human Globulin Solidscreen™ II, modified Anti-Human-Globulin for Solidscreen™ II (detects C3b and C3d, sufficient for approx. 5 Solidscreen™ II Compact or Solidscreen™ II Strip microtest plates) . . . . . .55 ml
806 516	Anti-Human Globulin Solidscreen™ II-Donor, modified Anti-Human-Globulin for Solidscreen™ II (does not detect complement, sufficient for approx. 5 Solidscreen™ II Compact or Solidscreen™ II Strip microtest plates) . . . . . .55 ml
806 514	Solidscreen™ II-Control, positive control (Anti-D) for Solidscreen™ II . . . . . .4 ml
806 505	Alsevers F, modified Alsevers solution for suspension and stabilization of red cells, with fungicide . . . . . .50 ml
805 200	MLB 2, modified LISS solution, suspension medium for red cells . . . . . .50 ml
806 511	Titrationsmedium Solidscreen™ II, for titer determination of antibodies . . . . . .50 ml
806 530	Solidscreen™ II Anti-D (RH1) Blend, liquid reagent for detection of weak D and partial D - clone BS221/H41 11B7 (IgG) . . . . . .5 ml
	Test Erythrocytes
816 028	Biotestcell™ -P, pool cell for detection of antibodies . . . . . .3 x 10 ml
816 012	Biotestcell™ -P1, -P2, for detection of antibodies . . . . . .2 x 10 ml
816 017	Biotestcell™ -P3, for detection of antibodies . . . . . .3 x 10 ml
816 050	Biotestcell™ -P3 E, papainized cells for detection of antibodies . . . . . .3 x 10 ml
816 020	Biotestcell™ -I8, for identification of antibodies . . . . . .8 x 4 ml
816 021	Biotestcell™ -I11, for identification of antibodies . . . . . .11 x 4 ml
816 051	Biotestcell™ -I11 E, papainized cells for identification of antibodies . . . . . .11 x 4 ml
816 027	Biotestcell™ -Kp^a, for identification of Anti-Kp^a antibodies . . . . . .10 ml
	Additional Reagents
848 000 090	Washing Solution Concentrate . . . . . .6 x 1,000 ml

Equipment

- TANGO™ **optimo** or TANGO **infinity**™
- Pipettes 50 µl, 100 µl, 1,000 µl
- Shaker for microwell plates
- Incubator
- Centrifuge for microwell plates
- Washer for microwell plates
- Reading mirror
- Photometer for agglutination measurements in microwell plates
- Evaluation software

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Bio-Rad Laboratories

Bio-Rad Laboratories is a multinational manufacturer and distributor of clinical diagnostics and life science research products.

Clinical Diagnostics Group

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