

# Reagent Red Blood Cells

## 0.8% Resolve® Panel B

A Qualitative Test for the Resolution of Complex Mixtures of Blood Group Antibodies Using the ID-Micro Typing System™ Gel Test Methods

**REF**

6902318

**Rx ONLY**

### SUMMARY AND EXPLANATION

Identification of the specificity of a single antibody is usually possible with a panel of ten to twelve reagent red blood cells. If multiple antibodies are present in the sample, the addition of selected cells may be necessary. 0.8% RESOLVE Panel B consists of red cells from 11 individual adult donors and an ANTIGRAM® Antigen Profile. This product is intended to supplement primary panels used for routine antibody identification such as 0.8% RESOLVE Panel A.

### PRINCIPLE OF PROCEDURE

The serum is tested against some or all of the cells of 0.8% RESOLVE Panel B, depending on the results obtained with the primary panel.

### REAGENT

0.8% RESOLVE Panel B is a series of human red blood cells in 0.8% suspensions from 11 group O individuals. One or more of the red blood cell donors used in 0.8% RESOLVE Panel B may have been held in frozen storage. The cells are suspended in a low ionic strength diluent, to which a purine and nucleoside have been added to maintain reactivity and/or retard hemolysis during the dating period. Trimethoprim (32 µg/mL) and sulfamethoxazole (160 µg/mL) have been added to retard bacterial contamination.

Use 0.8% RESOLVE Panel B directly from the vials. As with all reagent red blood cells, the reactivity of the cells may decrease during the dating period. The rate at which antigen reactivity (e.g., agglutinability) is lost is partially dependent upon individual donor characteristics that are neither controlled nor predicted by the manufacturer. Do not use if marked hemolysis or evidence of contamination is observed.

FOR IN VITRO DIAGNOSTIC USE. No U. S. Standard of Potency. Do not freeze. Do not use beyond expiration date. The expiration date of each lot is no longer than 63 days, excluding the days in frozen storage, from the date of collection of red blood cells from any donor in the lot. Studies demonstrate consistent performance of this product from the time the vial is opened until the specified expiration date. Store at 2 to 8°C.

**CAUTION: All blood products should be treated as potentially infectious. Source material from which this product was derived was found negative when tested in accordance with current FDA required tests. No known test methods can offer assurance that products derived from human blood will not transmit infectious agents.**

### SPECIMEN COLLECTION AND PREPARATION

Either serum or plasma may be used. Specimen collection should be accomplished by accepted medical procedures. No special preparation of the patient is required prior to specimen collection. Bacterial contamination may interfere with the results and interpretation of the test. Specimen storage should be within applicable regulating agencies' requirements. If specimens are stored before testing, they should be stored at 2 to 8°C.

### PROCEDURE

This product is to be used directly from the vial without further modification. Follow the Procedure section contained in the respective gel test Instructions for Use requiring a 0.8% red cell suspension in a low ionic strength diluent. Supplemental reagent red cells or autologous red cells may require modification to a 0.8% concentration according to the instructions in the relevant ID-Micro Typing System Instructions for Use.

### Material Provided

Reagent Red Blood Cells 0.8% RESOLVE Panel B

### Materials Required But Not Provided

Please refer to the ID-Micro Typing System Instructions for Use for additional materials required for use.

### RESULTS

#### Interpretation

1. Hemolysis or agglutination is a positive test result and reflects the presence of an antibody-antigen reaction.
2. No hemolysis or agglutination is a negative test result and indicates the absence of an antibody-antigen reaction.
3. Identification of the antibody present in the sample may be made by matching the reactions obtained with the ANTIGRAM Antigen Profile furnished with the reagent. If the antibody specificity is not evident, additional cells may be required.
4. Due to the complexities associated with the Duffy blood group system in the black population, it cannot be assumed that cells which are labeled Fy(a+b-) or Fy(a-b+) are homozygous for the Fy<sup>a</sup> or Fy<sup>b</sup> antigen.

**Stability of Final Reaction Mixture**

All results should be read and recorded upon test completion.

**CONTROL OF ERROR**

1. A control consisting of the serum and autologous red blood cells prepared according to the ID-Micro Typing System Instructions for Use should be tested in parallel with 0.8% RESOLVE Panel B. A positive reaction indicates patient abnormality which must be resolved before the test results can be interpreted.
2. For quality assurance, 0.8% RESOLVE Panel B should be tested periodically with weak antibodies.

**LIMITATIONS**

1. This reagent is designed to supplement primary panels such as 0.8% RESOLVE Panel A and therefore it may not be suitable for routine use in antibody identification.
2. Antibodies specific for low-incidence antigens not present on the test cells will not be detected.
3. Contaminated blood specimens may interfere with the test results.
4. Improper technique may invalidate the results obtained with this reagent.
5. False-positive test results may occur if antibodies to components of the preservative solution are present in the serum tested.
6. If multiple antibodies are present in the sample, additional cells may be required for identification.
7. These cells are contained in a low ionic strength diluent. The addition of other potentiators to the gel test card is not recommended and may affect the test results.
8. Complement-dependent antibodies may not be detected if a plasma specimen is used.
9. For antibody detection and identification, different serological methods are optimal for different antibodies. No single antibody screening or identification method optimally detects all antibodies. In some low ionic strength test systems, certain Anti-E and Anti-K antibodies have been reported to be nonreactive.

**SPECIFIC PERFORMANCE CHARACTERISTICS**

When properly stored and used for the identification of unexpected blood group antibodies, these reagent red blood cells will aid in the identification of antibodies directed against the antigens present on them within the limitations of the respective test system used. The complete antigen profile will vary with each individual lot. The presence or absence of each antigen listed on the accompanying ANTIGRAM Antigen Profile has been demonstrated by testing with at least two sources of antiserum unless rarity of the antiserum precludes it. Each of these tests have been conducted and interpreted independently. Each cell sample is shown to have a negative direct antiglobulin test, indicating that no human IgG or human complement components are detectable on the cell surface. Each lot of product is checked for compatibility with the ID-Micro Typing System gel test cards.

Meets requirements of the FDA.

Technical questions concerning this reagent should be directed in the U.S. to Ortho Care™ Technical Solutions Center at 1-800-421-3311.

Outside of the U.S., the company distributing this product should be contacted.

ID-Micro Typing System is a trademark of Micro Typing Systems, Inc.

<b>SUMMARY OF REVISIONS</b>	
<b>Section</b>	<b>Revision</b>
<b>All</b>	Changed package insert to Instructions for Use.
<b>SPECIFIC PERFORMANCE CHARACTERISTICS</b>	Changed Customer Technical Support to Ortho Care™ Technical Solutions Center.
<b>Back Page</b>	Updated copyright information.

## **BIBLIOGRAPHY**

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## **KEY TO SYMBOLS / LÉGENDE DES SYMBOLES / CLAVE DE LOS SÍMBOLOS**

The following symbols may have been used in the labeling of this product. / Les symboles suivants ont pu être utilisés sur l'étiquette de ce produit. / Los siguientes símbolos pueden haber sido empleados en el etiquetado de este producto.



*Use by or Expiration Date (Year-Month-Day) /  
À utiliser avant la date de péremption (année-mois-jour) /  
Usar antes de o Fecha de caducidad (año-mes-día)*



*Lot Number / Numéro de lot / Número de lote*



*Catalog Number or Product Code / Référence catalogue ou code  
produit / Referencia de catálogo o Código del producto*



*In vitro Diagnostic Medical Device / Pour diagnostic in vitro /  
Producto sanitario para diagnóstico in vitro*



*Temperature Limitation / Conserver à une température comprise  
entre / Limitación de temperatura*

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