ThromboFix™ Platelet Stabilizer

REF **6607130 - 100 tests**
REF **6607131 - 25 tests**

PN 4238130-D

BECKMAN COULTER™

For Research Use Only.
Not for use in diagnostic procedures.

SUMMARY AND EXPLANATION

Flow cytometry provides a powerful tool for the investigation of platelet activation and function[1] however, the artifactual activation that may occur post sample draw can complicate the evaluation of disease[2]. The ThromboFix™ Platelet Stabilizer extends the window for platelet analysis by ensuring that the platelets cannot be induced to a new functional state, for example, activated. Platelet Stabilizer preserves platelets in their current state at the time of preparation. The presence of cellular elements is, for the most part, dependent on the age and type of sample. The ThromboFix Platelet Stabilizer may be used in conjunction with platelet monoclonal antibody-dye conjugates for flow cytometric analysis.

REAGENT

ThromboFix Platelet Stabilizer
PN 6607130 - 100 tests
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REAGENT CONTENTS

ThromboFix Platelet Stabilizer is a two part liquid preparation containing buffered reagents that when combined in equal volumes is used for the stabilization of platelets.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagents beyond the expiration date printed on the vial or kit label.
4. Incubation times or temperatures other than those specified may give erroneous results.
5. Use Good Laboratory Practices (GLP) when handling reagent.
6. Once opened, ThromboFix Platelet Stabilizer Reagents A and B must be stored in an upright position to prevent the possibility of leakage.

STORAGE CONDITIONS AND STABILITY

Store at room temperature (18-24°C). Unopened reagent bottles are stable to the expiration on the kit label. Once opened individual reagent bottles are stable for 30 days. Working solution is stable for 7 days at room temperature.

REAGENT PREPARATION

1. Prepare working solution by combining equal volume of Reagent A + B.
2. Mix gently.
3. Allow to stand for 10 minutes at room temperature.
4. Working solution is stable for up to 7 days at room temperature.

PROCEDURE

This reagent is designed to stabilize human platelets in whole blood for up to 7 days when used in a flow cytometric assay.

NOTE: Blood must be added to the Platelet Stabilizer.

1. Transfer a volume of Stabilizer working solution equivalent to the volume of blood to be stabilized into a clean container.
2. Add the equivalent volume of blood to the Platelet Stabilizer.
3. Invert the container by hand 3 times to mix.
4. Allow the mixed sample to stand, undisturbed, for at least 1 hour at room temperature.
5. Prior to use remix the stabilized sample by inversion.
6. Aliquot the desired volume of sample into analysis tubes.
7. For flow cytometric analysis incubate the sample with monoclonal antibody(ies) according to manufacturer's instructions.

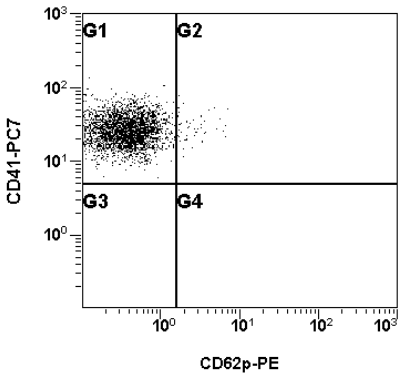
EXAMPLE DATA

Figure groups 1 through 3 are dual parameter representations (FL5 vs FL2) of a normal human whole blood sample stained with CD62p-PE and CD41-PC7 monoclonal antibodies and gated on platelets. Acquisition performed using a Cytomics FC 500 flow cytometer.

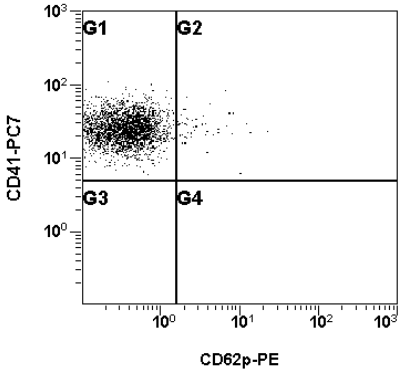
Figures 1a and 1b:

Figure 1a is a whole blood sample untreated at 1 hour post-draw and 1b is the same sample that has been stabilized.

1a



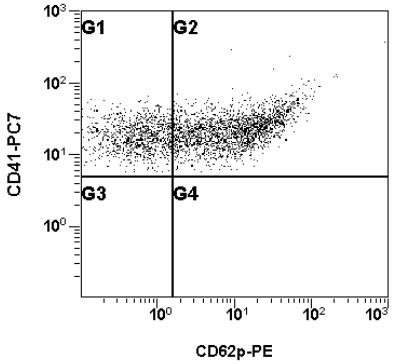
1b



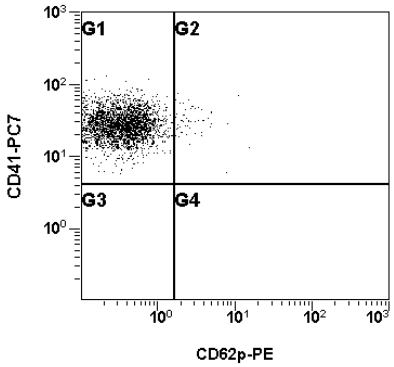
Figures 2a and 2b:

Histograms 2a and 2b are the same sample untreated and stabilized, respectively. Both were kept at room temperature for 24 hours.

2a



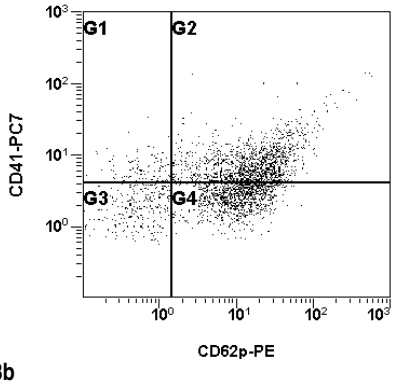
2b



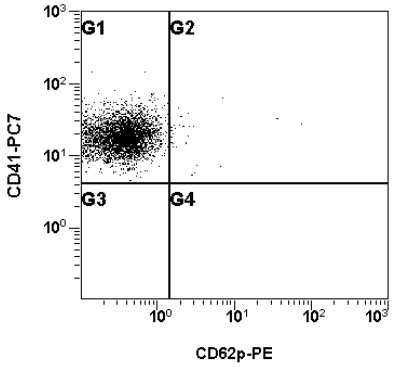
Figures 3a and 3b:

Histogram 3a represents unstabilized, 7 day storage at room temperature. Histogram 3b is stabilized for 7 days at room temperature.

3a



3b



SELECTED RESEARCH REFERENCES

1. Michelson, A., Furman, M., "Laboratory markers of platelet activation and their clinical significance", 1999, Current Opinion in Hematology, 6, 342-348.
2. Schmitz, G., Rothe, G., Ruf, A., Barlage, S., Tschöpe, D., Clemetson, K., Goodall, A., Michelson, A., Nurden, A., Shankey, T.V., "European Working Group on Clinical Cell Analysis: Consensus Protocol for the Flow Cytometric Characterisation of Platelet Function", 1998, Thrombosis and Haemostasis, 79,885-896.

TRADEMARKS

For additional information call:
USA 1-800-526-7694
Outside the USA, contact your local Beckman Coulter representative.

Beckman Coulter, Inc.
4300 N. Harbor Blvd.
Fullerton, CA 92835
www.beckmancoulter.com

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