



Thrombo-TIC®

1:100

Special Instruction for Platelet Rich Plasma (PRP).

Product information is an supplement instruction for counting of platelets (PLT) from Platelet Rich Plasma (Transfusion Medicine). The product information is an important basis and must be given priority.

Attention!

This additional information is a supplement to the product information. It is also important to observe the information in the product information!

Sample Material

Platelet Rich Plasma (PRP)

Reference Ranges

PRP	[10 ³ /µl = 10 ⁹ /L]
Thrombocytes (PLT)	~ 1000

Procedure

Use the reagent at room temperature of 18 ... 25 °C.

Dilution A (1:250) = Standard dilution for PRP

Pipette 250 µL PRP with an Automatic-Pipette in one of the Thrombo-TIC® tubes and flush pipette tip sufficiently with the reagent solution. Close tube and mix. This pre-dilution is 1:5 (exactly 1:4.96).

Open a new Thrombo-TIC® tube direct after mixing the pre-dilution and pipette 20 µL of the predilution into the second Thrombo-TIC® tube. This 2nd dilution is 1:50.5.

Both dilutions result in 1:250 (exactly 1:250.48).

Dilution B (1:550)

Pipette 100 µL PRP with an Automatic-Pipette in one of the Thrombo-TIC® tubes and flush pipette tip sufficiently with the reagent solution. Close tube and mix. This pre-dilution is 1:11 (exactly 1:10.9).

Open a new tube direct after mixing the pre-dilution and pipette 20 µL of the pre-dilution into the second Thrombo-TIC® tube. This 2nd dilution is 1:50.5. Both dilutions result in 1:550 (exactly 1:550.45).

Examination / Calculation

Microscopic counting with phase-contrast optics or with transmitting light at 400x magnification.

Counting chamber Neubauer ("improved"):

Count 25 group squares (each of them contains 16 smallest squares). This is the complete middle field of 1 mm². In the border squares count cells up to the center line.

Dilution A (1:250)

$$\begin{aligned} \text{Total cell count} \times 2500 &= \text{PLT} / \mu\text{l} \\ \text{Total cell count} \times 2.5 &= \text{PLT} \times 10^3 / \mu\text{l} = \text{PLT} \times 10^9 / \text{L} = \text{PLT Giga/L} \end{aligned}$$

Dilution B (1:550)

$$\begin{aligned} \text{Total cell count} \times 5500 &= \text{PLT} / \mu\text{l} \\ \text{Total cell count} \times 5.5 &= \text{PLT} \times 10^3 / \mu\text{l} = \text{PLT} \times 10^9 / \text{L} = \text{PLT Giga/L} \end{aligned}$$

Notes

See also basic product information of Thrombo-TIC®.

For professional use only.

Support/Infoservice

For methodological and technical support, please contact us by E-Mail at support@bioanalytic.de.

Periodically check for updates of this product information on our website.

Feedback

Information from users can be reported to support@bioanalytic.de.

Suggestions will be considered for further development.

If a serious incident has occurred during or as a result of use, please report it to the manufacturer and/or its authorized representative and to your national authority.

Waste Management

Please see basic product information.