

# Propidium Iodide

## Exclusion non viable cells

Reference	Size
PI	400 test

### PRODUCT DESCRIPTION

Propidium Iodide (PI) is ready-to-use nucleic acid dye solution. Propidium iodide (PI) is useful for the exclusion of non viable cells in flow cytometry analysis. This product can be used in combination with APC (Allophycocyanin), and FITC (Fluorescein isothiocyanate) conjugated antibodies in 2-color analysis.

The excitation of PI at 488 nm facilitates its use on all cytometers with argon ion lasers (most common flow cytometers).

**Storage buffer:** Propidium Iodide solution, 2 ml in PBS and 0,09% NaN<sub>3</sub> (sodium azide), pH 7,2.

**Storage conditions:** Store in the dark at 2-8 °C. Do not use after expiration date stamped on vial. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the product is suspected, contact our Technical Services. [tech@immunostep.com](mailto:tech@immunostep.com)

**Recommended usage:** This product has been tested by flow cytometry analysis. Use at 5 µl (0,25 µg) per test (per million cells) and incubate 5 minutes before analysis.

**Presentation:** liquid

**Storage Instruction:** store propidium iodide between 2°C and 8°C. Do not use after expiration date stamped on vial.

**Reagent provided:** 400 test (5 µl/test) of Propidium Iodide in 2 ml of PBS with 0,09% NaN<sub>3</sub> (sodium azide), pH 7.2.

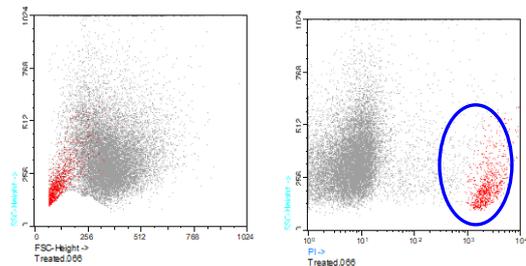
**Recommendation and warnings:** Propidium Iodide is a potential carcinogen. It is recommended that the user wear protective clothing, gloves, and eye/face protection in order to avoid contact with the skin and eyes.

This product contains sodium azide. In acid conditions, it is transformed into hydrazoic acid, a highly toxic compound. Azide compounds must be diluted in running water before being discarded. These conditions are recommended so as to avoid deposits in plumbing, where explosive conditions could develop.

For professional use only.  
Before acquiring samples, adjust the discriminator (threshold) to minimize debris.

### Staining cells protocol with Propidium Iodide Solution. Flow Cytometry

1. Harvest the cells corresponding to  $2 \times 10^5$  to  $1 \times 10^6$ . Centrifuge the cells for 5 minutes at 300 xg, and remove the supernatant. Resuspend the pellet in the residual liquid.
2. Wash cells once in 2 ml PBS + 2% BSA. Centrifuge the cells for 5 minutes at 300 xg, and remove the supernatant. Resuspend the pellet in PBS 100 µl.
3. Add 5 µl of Propidium Iodide (PI) to cell pellet and mix well. Incubate 5 minutes at room temperature before to analysis.
4. After incubation period, add 300 µl of PBS. Analyze by flow cytometry.



**Figure 1.** Jurkat cells (T-cell leukemia, human). Non viable cells into blue gate.

### WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties. Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

### MANUFACTURED BY



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