

## eBioscience™ Propidium Iodide Staining Solution

**Catalog Number:** 00-6990

**Also known as:** cell viability, PI

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

### Product Information

**Contents:** eBioscience™ Propidium Iodide Staining Solution

 **Catalog Number:** 00-6990

**Formulation:** 5 µL (40 ng)/test; PBS, 0.09% sodium azide

**Temperature Limitation:** Store at 2-8°C. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Caution, contains Azide**



### Description

Propidium Iodide (PI) is a ready-to-use cell impermeable fluorescent solution for the exclusion of non-viable cells in flow cytometric analysis. PI binds to double stranded DNA by intercalating between base pairs, but is excluded from cells with intact plasma membranes. PI has excitation at 535 nm and peak emission at 617 nm. The emission spectrum is broad; therefore it will be detected in several channels including PE, PE-eFluor 610, PE-Cyanine 5, PE-Cyanine 5.5, PerCP-Cyanine 5.5/ PerCP-eFluor 710 and PE-Cyanine7. The concentration of this solution is not suitable for cell-cycle analysis.

### Applications Reported

Propidium Iodide can be used as a viability probe for methods of nonviable cell exclusion, based on light scatter and uptake of the reagent as detected in FL3 (PE-Cyanine7 channel) or FL2 (PE channel). CAUTION: 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 skin and eyes.

### Applications Tested

Propidium Iodide Staining Solution has been pre-titrated and tested on Jurkat cells treated with 10 µM camptothecin for 24 hours. This can be used at 5 µL per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### Related Products

00-6993 eBioscience™ 7-AAD Viability Staining Solution

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