

**910-3016 Solution 16 – Propidium Iodide****1 ml**

<b>Contents</b>	<p><b>Solution 16 - Propidium Iodide</b> (1 ml).</p> <p>The solution contains propidium iodide (PI; 500 µg/ml ~ 0.7 mM ~ 0.05%) and sodium azide (NaN<sub>3</sub>; 0.1 mg/ml ~ 1.5 mM ~ 0.01 %).</p> <p>The EINECS no. for PI is 247-081-0.</p> <p>The EINECS no. for NaN<sub>3</sub> is 247-852-1.</p>
<b>Application</b>	<p><b>Solution 16 - Propidium Iodide</b> stains nucleic acids of dead, fixed and permeabilized cells. PI is used to identify dead cells and for quantifying DNA-content of e.g., animal cells, allowing determination of G<sub>0</sub>/G<sub>1</sub>, S, and G<sub>2</sub>/M cell cycle phases.</p>
<b>Principle</b>	<p><b>Solution 16 - Propidium Iodide</b> is a cell impermeant dye which only stains cells with a compromised plasma membrane. PI is commonly used for quantitative assessment of DNA-content. For accurate DNA content measurements, it is a prerequisite that the cells are fixed/permeabilized and RNase-treated prior to PI staining.</p>
<b>Use</b>	<p>The solution is for research use only (RUO) and is not for diagnostic or therapeutic uses.</p>
<b>Storage</b>	<p>Store at 2-8°C.</p>
<b>Stability</b>	<p>Unopened microtubes can be stored until the expiry date indicated on the microtubes. The solution is produced 15 months prior to the expiry date.</p> <p>We recommend using the solution no later than the expiry date or two (2) months after opening the microtubes, whichever comes first.</p>
<b>Safety information</b>	<p>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If a spill is observed, perform a clean-up of the area which may have been in contact with the solution.</p> <p>Use gloves and suitable protective clothing.</p> <p>Please also refer to the safety data sheet (SDS) for safety information.</p>
<b>Disposal</b>	<p>After use, dispose of the microtube following national or local laws and regulations, according to the nature of its contents.</p>