

910-3007 Solution 7 - JC-1**1 mL**

Contents	<p>Microtube with 1 mL Solution 7 - JC-1.</p> <p>The solution contains 5,5',6,6'-tetrachloro-1,1',3,3'-tetraethylbenzimidazolyl-carbocyanine iodide (JC-1) (200 µg/mL ~ 0.30 mM ~ 0.02%) in DMSO.</p> <p>EINECS no. for DMSO is 200-664-3.</p>
Application	<p>Solution 7 - JC-1 can be used for measurement of the mitochondrial transmembrane potential ($\Delta\psi_m$). Disruption of the $\Delta\psi_m$ is often associated with early stages of apoptosis.</p>
Principle	<p>Solution 7 - JC-1 displays potential-dependent accumulation in the mitochondria and provides a simple, fluorescent-based method for distinguishing between healthy and apoptotic cells. In healthy cells, the negative charge established by the intact mitochondrial membrane potential facilitates the accumulation of JC-1 in the mitochondrial matrix. At high concentrations, JC-1 forms aggregates and becomes red fluorescent. In apoptotic cells, the mitochondrial potential collapses, and JC-1 localizes to the cytosol in its monomeric green fluorescent form. Mitochondrial depolarization is revealed as a decrease in the red/green fluorescence ratio.</p>
Usage	<p>Thaw and mix before use!</p> <p>The solution is for research and development purposes only and is not for diagnostic or therapeutic use.</p>
Storage	<p>Store at < 5°C</p> <p>Protect the solution against moisture and light.</p>
Stability	<p>For unopened microtubes, the expiry date is shown on the microtube and on the plastic container. The solution is produced 15 months before the expiry date.</p> <p>The solution expires 1 month after opening the microtube.</p>
Safety Information	<p>Dimethyl Sulfoxide (DMSO) is an irritating organic compound with long term effects. DMSO has the hazard classification: Xi</p> <p>Risk-phrases: R36/37/38 (Irritating to eyes, respiratory system and skin).</p> <p>Safety-phrases: S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice) S37 (Wear suitable gloves)</p> <p>Please also refer to MSDS regarding safety information.</p>
Disposal of Waste	<p>After use, the microtube should be disposed of according to national or local laws and regulations regarding the nature of the mixture it contains.</p>