Pluronic® F-127

(Cat. # 786-1536, 786-1537)
**INTRODUCTION**

*Pluronic® F-127 is a nonionic, surfactant polyol with molecular weight around 12,500 daltons (Fig.1). Pluronic® F-127 promotes solubilization of water-insoluble dyes and other materials in physiological medium. Pluronic® F-127 is most commonly used to disperse the acetomethyl (AM) esters as well as cell tracer dyes such as CFDA-SE.*

It is also useful for isolation of membrane proteins. It has low UV absorbance and thus can be used in experiments where continuous UV monitoring of solubilized proteins is required.

* Pluronic is a registered trademark of BASF

![Fig.1](image)

**SPECIFICATIONS**

Molecular Weight: 12,500
CAS No: 9003-11-6
Solvent: DMSO or water

**ITEM(S) SUPPLIED**

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>786-1536</td>
<td>Pluronic® F-127 [20% Solution in DMSO]</td>
<td>1 ml</td>
</tr>
<tr>
<td>786-1537</td>
<td>Pluronic® F-127, 0.2 μm Filtered [10% in Water]</td>
<td>50 ml</td>
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</tbody>
</table>

**STORAGE CONDITIONS**

Pluronic® F-127 [20% Solution in DMSO] and Pluronic® F-127, 0.2 μm Filtered [10% in Water] are supplied at ambient temperature. Store them at room temperature upon receiving.

**PROTOCOL**

1. Pluronic® F-127 is added only to working solutions.
2. A small volume of AM ester dissolved in DMSO at 1-5 mM is mixed with 20% or 10% Pluronic® F-127 in ratio 1:1.

**NOTE:** Concentration of Pluronic® F-127 can be changed as per need. Appropriate
control should be included to ensure that Pluronic® F-127 is not altering membrane properties of the cell.

3. The solution of AM ester and Pluronic® F-127 is further diluted in cell-loading buffer such as 1X Hanks and 20 mM Hepes buffer (HHBS) to achieve a final concentration between 1μM to 10μM of AM ester and Pluronic® F-127 concentration is kept below 0.1%.

4. The cells are incubated with the diluted solution of AM ester and Pluronic® F-127 between 10 minutes and 1 hr in incubator (5%CO₂, 37°C).

5. Measure the fluorescence on fluorescence plate reader at recommended excitation and emission wavelength for AM ester dye.

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