Pluronic® F-127 *10% Solution in H₂O*

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Number: 20053 (10 mL)</th>
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**Storage Conditions**

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<tr>
<th>Store at Room Temperature <em>DO NOT FREEZE</em></th>
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<td>Expiration date is 6 months from the date of receipt</td>
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**Introduction**

Pluronic® F-127 is a nonionic surfactant which is 100% active and relatively non-toxic to cells at low concentrations, and frequently used with dye AM esters such as Indo-1 AM, Fura-2 AM, Calcein AM, Fluo-3 AM, Fluo-4 AM, Quest Fluo-8™ AM and Quest Rhod-4™ AM, etc., to improve their water solubility. Pluronic® F-127 may also be useful for dispersing other lipophilic probes. Appropriate controls should be performed to make certain that Pluronic® F-127 is not altering the membrane properties of the cells. For the convenience, we also offer 20% Pluronic® F-127 DMSO solution (Cat. # 20052) and solid (Cat. # 20050).

**Chemical and Physical Properties**

Molecular Weight: ~12,500
Solvent: water

**Storage Conditions**

Store at room temperature. DO NOT FREEZE and REFRIGERATE.
Expiration date: 6 months from the date of receipt.

*Note: Do not refrigerate or freeze the Pluronic® F-127 solution since it may precipitate. If precipitation is observed, the precipitates can be dissolved by heating to 37 °C and vortexing before use.*

**Guidelines for Use**

*Note: Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs.*

1. Dilute the 10% Pluronic® F-127 stock solution into the cell-loading buffer such as Hanks and 20 mM Hepes buffer (HHBS) at 1:1000 to 1:500 dilution to achieve a 0.02 to 0.04% working solution.

2. The DMSO stock solution of AM ester is then diluted into the 0.02 to 0.04% working solution (from Step 1) to achieve a final AM ester concentration of between 1 μM and 10 μM.

*Note: The final concentration of Pluronic® F-127 is normally kept at or below 0.08%.*

3. The cells are incubated at a desired temperature for between 10 minutes and 1 hour.

*Note: In general it is desirable to use the minimum amount of AM ester needed to achieve adequate fluorescence signal to noise levels.*

4. After labeling, the cells are washed with HHBS or fresh medium before starting the experiment.

**Disclaimer:** This product is for research use only and is not intended for therapeutic or diagnostic application. Please contact our technical service representative for more information.