**20X SSC**

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<tr>
<th>Product Name</th>
<th>Product Code</th>
<th>Kit Packing</th>
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<tbody>
<tr>
<td>20X SSC</td>
<td>ML030-500ML</td>
<td>500 ml</td>
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<td>ML030-2X500 ML</td>
<td>2X500 ml</td>
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**Introduction:** 20X SSC (Saline Sodium Citrate) is extensively used as a hybridization and transfer buffer. The supplied 20X solution has to be diluted with deionized water according to the requirement of applications.

**Description:** 20X SSC buffer has a high ionic strength as it contains Sodium chloride and it utilizes citrate as the buffering system. This solution is formulated for use in nucleic acid hybridizations and blot transfer applications in concentrations ranging from 0.2X to 20X, depending on the application.

**Application:** 20X SSC is extensively used in molecular biology during Southern and Northern blotting method as it facilitates the transfer of nucleic acids to membranes. This buffer is used in DNA and RNA probe-containing hybridization cocktails and to control stringency for washing steps of Southern and Northern blotting. 20X SSC is used during *in situ* hybridization applications like FISH and in dot blotting.

**Composition:** The 20X SSC is a solution composed of 3 M Sodium chloride and 300 mM tri-Sodium citrate dihydrate and the pH adjusted to 7.0.

**Properties:**
- Appearance : Colorless solution
- Clarity : Clear and free of particles
- DNase & RNase : None detected
- pH : 6.9 - 7.1
- Bioburden : None detected
- Suitability test : This solution has been tested and is suitable for use in nucleic acid hybridization and blot transfer assays.

**Storage conditions:** 20X SSC solution has to be stored at room temperature (15 - 25 °C).

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