### Oligo Modifications

**Spacer 18**

<table>
<thead>
<tr>
<th>Category</th>
<th>Spacers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modification Code</td>
<td>Sp18</td>
</tr>
<tr>
<td>Reference Catalog Number</td>
<td>26-6447</td>
</tr>
<tr>
<td>5 Prime</td>
<td>Y</td>
</tr>
<tr>
<td>3 Prime</td>
<td>Y</td>
</tr>
<tr>
<td>Internal</td>
<td>Y</td>
</tr>
<tr>
<td>Molecular Weight(mw)</td>
<td>344.3</td>
</tr>
</tbody>
</table>

Spacer 18 is a hexaethylene glycol chain that is 18 atoms long (12 carbons + 6 oxygens), and is used to incorporate a long spacer arm into an oligonucleotide.Spacer 18 can be incorporated in consecutive additions whenever a longer spacer is required. Spacer 18 had been used to form bold folds and hairpin loops in oligonucleotides (1,2), and for solid-phase immobilization of hybridization probes (3). Spacer 18 has also been used to modify random primers used in whole genome amplification (WGA)-based applications, as a way to eliminate self-priming events that form spurious DNA products (that is, false-positive amplification) in the PCR reactions (4).

**References**