dNTP Mix (Lithium salts)  
NU-0010-10 • NU-0010-50 • NU-0010-100

Eurorgen products are sold for research or laboratory use only and are not to be administered to humans or used for medical diagnostics.  

Description  
The 20 mM dNTP Mix (Lithium salts) contains each dNTP (dATP, dCTP, dGTP, dTTP) at a concentration of 5 mM. Each vial contains 5 µmol (1 x 1000 µl) dNTP Mix i.e. 5 µmol of each. Ready to use.  

Package content  

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Reference</th>
<th>Quantity</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>dNTP Mix (Lithium salts)</td>
<td>NU-0010-10</td>
<td>1 x 1 ml</td>
<td>1 x 1 ml</td>
</tr>
<tr>
<td></td>
<td>NU-0010-50</td>
<td>5 x 1 ml</td>
<td>5 x 1 ml</td>
</tr>
<tr>
<td></td>
<td>NU-0010-100</td>
<td>10 x 1 ml</td>
<td>10 x 1 ml</td>
</tr>
</tbody>
</table>

Shipping conditions  
dNTP Mix Shipped on dry ice

Storage  
Store the dNTP Mix at -20°C or -70°C, in a constant temperature freezer. Avoid multiple freeze/thaw cycles. For long-term usage, aliquoting is recommended.  

Purity  
dNTPs are enzymatically produced from nucleotide monophosphates by a process of phosphorylation. This process uses highly specific enzymatic systems, which eliminate impurities and PCR inhibitors such as modified nucleotides and pyrophosphates. dNTPs are purified with preparative HPLC and are at least 99 % pure.

Typical analysis  
Lithium salts, >99% deoxynucleoside triphosphates (HPLC, area > 99%), <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates.

Quality control  
dNTPs are tested for the absence of DNAse, RNase, protease and nicking activity. Each batch is validated rigorously for purity by HPLC, and tested for performance in a wide range of PCR templates, including a long-distance 20 kb functional test.

Total analysis  
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Quality control  
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Reaction conditions  
For direct use in DNA synthesis in vitro.

Add the dNTP Mix directly into the reaction mixture. For primer extension technology, add 4 µl of dNTP Mix in a total 100 µl reaction volume to give a final concentration of 200 µM of each dNTP.  

Number of reactions: 250

For long-range application, adjust accordingly.

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### Related products

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Pack. size</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Mupid®-One electrophoresis system</td>
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<td>MU-0041</td>
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<tr>
<td>Diamond Taq® (5U/µl)</td>
<td>1000 U</td>
<td>TAQ-I021-1000-</td>
</tr>
<tr>
<td>HGS Diamond Taq® (5U/µl)</td>
<td>1000 U</td>
<td>TAQ-I011-1000-</td>
</tr>
<tr>
<td>GoldStar Mix 2x</td>
<td>5 x 1 ml</td>
<td>200 KΩ</td>
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<tr>
<td>Red’Y’Gold Mix 2x</td>
<td>5 x 1 ml</td>
<td>200 KΩ</td>
</tr>
<tr>
<td>SmartLadder</td>
<td>1000 lanes</td>
<td>MW-1700-10</td>
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</tbody>
</table>

### For further information please contact our Customer Help Desk:

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