

Specification

**SuperHot Taq DNA Polymerase**

**A5231**

<b>Product Code:</b>	A5231
<b>Product Name:</b>	<i>SuperHot Taq DNA Polymerase</i>
<b>Specifications:</b>	<ul style="list-style-type: none"> <li>: • supplied with reaction buffer (10X)</li> <li>: • Unit definition: see comment</li> <li>: • tested for Real Time PCR</li> </ul> Concentration: 4.5 - 5.0 U/μl
<b>WGK:</b>	1
<b>Storage:</b>	-20°C
<b>Shipment:</b>	wet ice
<b>CS:</b>	35079090
<b>Comment</b>	<p>SuperHot <i>Taq</i> DNA Polymerase is an optimized mixture of <i>Taq</i> DNA Polymerase and anti-<i>Taq</i> DNA polymerase monoclonal antibodies. The Antibodies block the polymerase activity during the set-up of the PCR reactions at room temperature (20 - 22°C). The inhibition of the <i>Taq</i> DNA polymerase is completely reversed when the temperature is above 70°C. The PCR products obtained with SuperHot <i>Taq</i> are free from nonspecific products and from primer-dimers. The recommended <b>Reaction Buffer (1X)</b> is 16 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 67 mM Tris · HCl (pH 8.8); 1.5 - 7 mM MgCl<sub>2</sub>, 0.01 % Tween-20. The <b>Reaction buffer</b> supplied with the enzyme is a 10X concentrate of the recommended buffer. The storage buffer contains 10 mM Tris &amp; middoz; HCl (pH 7.0); 50 mM KCl; 0.1 mM EDTA; 50 % glycerol. <b>Recommended PCR conditions:</b> Use the PCR conditions optimized for <i>Taq</i> DNA polymerase. In case of low amount of DNA template, additional cycles may be used. <b>Applications:</b> Complex genomic or cDNA templates, low copy number targets, large numbers of thermal cycles, multiplex PCR. <b>Unit definition:</b> One unit of activity is defined as the amount of enzyme required to incorporate 10 nmoles of dNTP into acid-insoluble DNA fraction in 30 minutes at 72°C.</p>

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