



MB *Taq* DNA Polymerase

hot start

Features

Description	<p>MB <i>Taq</i> DNA Polymerase is a highly processive 5'→3' polymerase with no 3'→5' exonuclease (proofreading) activity. At 72 °C and around pH 9 conditions, MB <i>Taq</i> DNA Polymerase reaches its highest level of activity, capable of amplifying a standard 1 kb strand of DNA in approximately 30 seconds.</p> <p>The <i>Taq</i>'s activity is blocked at ambient temperature, e.g. while preparing your sample. The inhibition of the <i>Taq</i> polymerase is completely reversed when the temperature is above 70 °C. Complete activation of the polymerase is achieved at 94 °C for 2 min. MB <i>Taq</i> DNA Polymerase is supplied with a 10x buffer for maximal yield and sensitivity which should fit most standard applications.</p>																				
Recommended Use / Scope	<p>Routine and multiplex PCR; real-time PCR; T/A cloning; DNA labeling with biotin, digoxigenin or radioactive nucleotides; sequencing of double or single stranded DNA</p>																				
Kit Components	<p>MB <i>Taq</i> DNA Polymerase, supplied in 10 mM Tris-HCl (pH 7.0), 50 mM KCl, 0.1 mM EDTA, and 50 % (v/v) glycerol. 10x reaction buffer. 100 mM MgCl₂ solution.</p> <p>If the polymerase is used in combination with Venor®GeM or Venor®GeM Advance the buffer provided with the polymerase is not required.</p>																				
Package Sizes	<p>MB <i>Taq</i> DNA Polymerase is available at concentrations of 1 u/μl and 5 u/μl.</p> <table border="1" data-bbox="607 1249 1362 1428"> <thead> <tr> <th colspan="2">1 Unit/μl</th> </tr> </thead> <tbody> <tr> <td>Cat.-No. 53-1050</td> <td>50 Units</td> </tr> <tr> <td>Cat.-No. 53-1100</td> <td>100 Units</td> </tr> <tr> <td>Cat.-No. 53-1200</td> <td>200 Units</td> </tr> <tr> <td>Cat.-No. 53-1250</td> <td>250 Units</td> </tr> </tbody> </table> <table border="1" data-bbox="607 1459 1362 1638"> <thead> <tr> <th colspan="2">5 Units/μl</th> </tr> </thead> <tbody> <tr> <td>Cat.-No. 53-0050</td> <td>50 Units</td> </tr> <tr> <td>Cat.-No. 53-0100</td> <td>100 Units</td> </tr> <tr> <td>Cat.-No. 53-0200</td> <td>200 Units</td> </tr> <tr> <td>Cat.-No. 53-0250</td> <td>250 Units</td> </tr> </tbody> </table>	1 Unit/μl		Cat.-No. 53-1050	50 Units	Cat.-No. 53-1100	100 Units	Cat.-No. 53-1200	200 Units	Cat.-No. 53-1250	250 Units	5 Units/μl		Cat.-No. 53-0050	50 Units	Cat.-No. 53-0100	100 Units	Cat.-No. 53-0200	200 Units	Cat.-No. 53-0250	250 Units
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Shelf Life and Storage	<p>Components must be stored at -18 °C. Shipment on cool packs. The product is stable for at least 6 months.</p>																				