

# Hypernova

## DNA Polymerase

### CERTIFICATE OF ANALYSIS

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<b>#RP232</b>	<i>Hypernova</i> DNA Polymerase
<b>Components:</b>	<i>Hypernova</i> DNA Polymerase, LOT: 785671 10x <i>Hypernova</i> Reaction Buffer, LOT: 665672 10x <i>Shark</i> Reaction Buffer, LOT: 725672 50 mM MgCl <sub>2</sub> , LOT: 616472
<b>Batch Number:</b>	626472
<b>Expiry Date:</b>	01.2020
<b>Concentration:</b>	2 U/μl
<b>Store at:</b>	-20 <sup>o</sup> C
<b>Shipping conditions:</b>	Shipping on dry or blue ice
<b>Supplied in:</b>	20 mM Tris-HCl (pH 7.4 at 25°C), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.1% Triton X-100, 50% (v/v) glycerol
<b>Specification:</b>	The <i>Hypernova</i> DNA Polymerase is a unique blend of a modified highly thermostable and proofreading <i>Pwo</i> DNA polymerase which is isolated from the hyperthermophilic archaeon <i>Pyrococcus woesei</i> and enzymes increasing yield and performance of the PCR reaction. The enzyme mix can generate very long amplicons (up to 10 kbp). <i>Hypernova</i> is a versatile and easy-to-use polymerase, since it works with many different protocols and requires minimal time consuming optimization. The <i>Hypernova</i> polymerase catalyses a DNA replication reaction at 72°C. The halftime of the polymerase at 95°C is over 8 hours. It has 3'-5' exonuclease activity (proofreading activity). No 5'-3' exonuclease activity increases stability of the PCR products. It leaves blunt-ended 3' endings (important at molecular cloning). It allows obtaining PCR products in a very wide size range up to 10 kbp.

### QUALITY CONTROL

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Extensively tested in PCR reactions. No contaminating nuclease activity detected.

Quality authorized by: Justyna Leibner-Ciszak      Date: 06.06.2016

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