

Hypernova

DNA Polymerase

CERTIFICATE OF ANALYSIS

#RP232	<i>Hypernova</i> DNA Polymerase
Components:	<i>Hypernova</i> DNA Polymerase 10x <i>Hypernova</i> Reaction Buffer 10x <i>Shark</i> Reaction Buffer 50 mM MgCl ₂
Batch Number:	785671
Expiry Date:	06.2018
Concentration:	2 U/μl
Store at:	-20°C
Shipping conditions:	Shipping on dry or blue ice
Supplied in:	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
Specification:	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

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

Quality authorized by:

Justyna Leibner-Ciszak

Date: 06.06.2017



PRODUCT USE LIMITATION

This Blirt S.A. product has been developed for research purposes only. This product is not suitable for human and animal therapeutic or diagnostic use.

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