

# TaqNova DNA-free Polymerase

S. No.: S-88  
CoA Version: 1.2020

## CERTIFICATE OF ANALYSIS

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<b>Product Name:</b>	<i>TaqNova</i> DNA-free Polymerase
<b>Sample Number:</b>	S-88
<b>Concentration:</b>	195 U/ $\mu$ l
<b>Unit definition:</b>	One unit is defined as an amount of enzyme required to incorporate 10 nmol of dNTPs to an insoluble DNA fraction in 30 minutes at 72°C in 50 $\mu$ l reaction.
<b>Components:</b>	<i>TaqNova</i> DNA-free Polymerase
<b>LOT number:</b>	735775
<b>Expiry Date:</b>	04.2025
<b>Storage conditions:</b>	-20°C
<b>Storage Buffer:</b>	20 mM Tris-HCl (pH 8.0 at 25°C); 100 mM KCl; 0.1 mM EDTA; 1 mM DTT; 0.5% (v/v) Nonident P40; 0.5% (v/v) Tween 20; 50% (v/v) glycerol
<b>Shipping conditions:</b>	Shipping on blue or dry ice

## QUALITY CONTROL

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**Functional activity test:** The product is tested in PCR reaction, with a dilution series of human genomic DNA.

**Result:** PASS

**DNase activity:** Free of detectable DNA nuclease activities as judged by gel electrophoresis following incubation of 1 µg of DNA with 10 U of enzyme for 16 h at 37<sup>0</sup>C.

**Result:** PASS

**Protein Purity Assay:** The purity is ≥ 95% as evaluated by SDS-PAGE electrophoresis using Coomassie Blue detection.

**Result:** PASS

**DNA contamination (*E. coli* genomic):** A minimum of 1 U of enzyme is screened for the presence of *E. coli* genomic DNA using SYBR<sup>®</sup> Green qPCR with primers specific for the *E. coli* 16S rRNA locus. Results are quantified using a standard curve generated from purified *E. coli* genomic DNA. The measured level of *E. coli* genomic DNA contamination is ≤ 1 *E. coli* genome.

**Result:** PASS

**This product has been tested and shown to be in compliance with all specifications.**

**Quality authorized by:** Justyna Leibner-Ciszak

**Date:** 18.02.2020

**This document was generated electronically and is therefore valid without signature.**

### PRODUCT USE LIMITATION

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

### WARRANTY TERMS

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