

Certificate of Analysis



Product Name: Hot Start Pol

Description: Heat-activatable DNA polymerase for high specificity

Catalog Number: HS_100KU
HS_1000KU

Lot: 114.958

Source: *Thermus aquaticus*

Expressed in: *Escherichia coli*

Concentration: 5 units/ μ l

Storage Buffer: 20 mM Tris-HCl, 100 mM KCl, 0.1 EDTA, 1 mM DTT, 0.5% Tween-20, 0.5% Nonidet P-40, 50% (v/v) Glycerol, pH 8.0 (25°C)

Stability: 24 months from Certification Date

Test	Specification	Results
Low Copy PCR (345 bp, humane DNA, template dilution series)	PCR fragment with 10 pg of template or less	5 pg
polymerization activity at 25°C	no activity detected	conforms
Contamination with human DNA (qPCR, beta-actin gene)	not detectable	conforms
Contamination with bacterial DNA (qPCR, 16S rRNA)	not detectable	conforms
DNases, RNases, Nicking Activity (FRET)	not detectable	conforms

QC acceptance date: July 25, 2018

Steffi Lange, Quality Control