Lot 0006341415
Page 1 of 1

Catalog Number 600380
Product Name PfuUltra High-Fidelity DNA Polymerase
Expiration Date 2018-06-30
Quantity 100 U
Certified By Dana Faver
Quality Controlled By Matt Huffman
Shipping Conditions Shipped on dry ice.
Storage Conditions Store at -20°C upon receipt.
Enzyme Lot Number 0006304543
Buffer Lot Number 0006248131
Kit Lot Number 0006341415

Concentration 2.5 U/μl

Description
PfuUltra DNA polymerase features a unique mutant of Pfu DNA polymerase and Agilent’s patented ArchaeMaxx polymerase enhancing factor for ultra high-fidelity PCR (approximately 3-fold higher fidelity than Pfu DNA polymerase).

10x Reaction Buffer
Use only the provided 10x PfuUltra HF Reaction Buffer. Changing the reaction buffer may adversely affect the yield and/or fidelity of the reaction.

Unit Activity
One unit of activity is the amount of PfuUltra DNA polymerase required to incorporate 10 nmoles of [³H]TTP into an acid-insoluble form in 30 minutes at 72°C.

Test Conditions
PfuUltra DNA polymerase is extensively tested using multiple primer-template systems ranging from 0.9 to 14 kb in length.

Contamination Test Conditions
PfuUltra DNA polymerase is tested for the absence of detectable nonspecific nuclease activity and DNA contamination.

Storage Buffer
PfuUltra DNA polymerase is supplied in 50 mM Tris-HCl (pH 8.2), 1 mM dithiothreitol (DTT), 0.1 mM EDTA, 0.1% Tween 20, 0.1% Igepal and 50% (v/v) glycerol.

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