Lot: 0006200974

Catalog Number: 600390

Product Name: PfuUltra Hotstart High-Fidelity DNA Polymerase

Expiration Date: 2016-05-30

Quantity: 100 U

Certified By: Dana Faver

Quality Controlled By: Tricia Molina

Shipping Conditions: Shipped on dry ice.

Storage Conditions: Store at -20°C upon receipt.

Enzyme Lot Number: 0006209571

Buffer Lot Number: 0006235138

Kit Lot Number: 0006200974

Concentration: 2.5 U/µl

Description:
PfuUltra hotstart DNA polymerase, formulated for hot start activity, 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 hotstart DNA polymerase required to incorporate 10 nmoles of [α³²P]dUTP into an acid-insoluble form in 30 minutes at 72°C.

Test Conditions
PfuUltra hotstart DNA polymerase is extensively tested using multiple primer-template systems ranging from 115 bp to 14 kb in length.

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

Storage Buffer
PfuUltra hotstart 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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