

Product Datasheet

Vazyme - Phanta Max Super-Fidelity DNA Polymerase (P505-d2)

Catalog Number	P505-d2
Description	Phanta Max Super-Fidelity DNA Polymerase is an upgraded version of Phanta Super-Fidelity DNA Polymerase. Compared with the previous generation, Phanta Max has added the unique elongation factor, specificity-enhancing factor and plateau phase anti-inhibitor factor, which greatly improves the long-fragment amplification ability, amplification specificity and amplification yield. Phanta Max can efficiently amplify up to 40 kb simple templates (e.g. λDNA, plasmids), 20 kb complex templates (e.g. genomic DNA) and 10 kb cDNA. The amplification error rate of Phanta Max is 128-fold lower than that of conventional Taq DNA Polymerase. In addition, Phanta Max has a good resistance to PCR inhibitors and can be used for direct PCR amplification of bacteria, fungi, plant tissues, animal tissues, and even whole blood samples. Phanta Max contains two monoclonal antibodies inhibiting the 5'→3' polymerase activity and 3'→5' exonuclease activity at room temperature, which enable it to perform hot start PCR with great specificity. Amplification products are blunt-ended, which are compatible with ClonExpress kits (Biorbyt #C112/C113/C116) and TOPO cloning kit (Biorbyt #C603).
Storage	Store at -30 ~ -15°C and transport at ≤0°C.
Note	For research use only
Application notes	Ultra-high fidelity: ~128X higher than Taq DNA Polymerase Longer amplicon lengths: Up to 40 kb simple templates, 10 kb cDNA and 20 kb gDNA Robust performance: Superior specificity, sensitivity, and yields Broad Compatibility: Suitable for complex samples & GC-rich systems
Expiration Date	12 months from date of receipt.

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