

EnzSmart U+ Melt Pro Multiplex DNA Polymerase

Product Information

Cat#	ENZD-P05
Specification	500 U; 2500 U
Unit Concentration	5 U/μl
Description	<p>High-performance enzymes for ultramultiplex probe melting curves. EnzSmart U + Melt Pro Multiplex DNA Polymerase is a probe-based melting curve reagent specifically developed for TaqMan probe-based asymmetric PCR amplification technology. This product utilizes the EnzSmart platform to selectively screen enzymes with well-matched cleavage and polymerization activities, strong 3' mismatch recognition capabilities, and high tolerance to impurities. Combined with high-blocking-rate bispecific antibodies (binding to different antigenic epitopes) and an optimized buffer system, it significantly improves the melting curve peak, uniformity, specificity, GC content compatibility, and impurity tolerance (blood, guanidine salts, etc.) after ultra-multiplex amplification. Furthermore, the reagent incorporates a dUTP/UDG anti-contamination system to control residual contamination of amplified products, ensuring accurate results. It is a qPCR reagent suitable for ultra-multiplex probe melting curve platforms.</p>
Features	<ol style="list-style-type: none"> 1. Superior amplification uniformity 2. Good specificity
Applications	Multiple pathogen detection; reproductive genetic testing; medication guidance; food testing, etc.
Components	<p>EnzSmart U+ Melt Pro Multiplex DNA Polymerase (5 U/ul)</p> <p>10 x PCR Buffer (Mg²⁺ plus)</p> <p>dNTP/dUTP Mix (10 mM each)</p> <p>MgCl₂ (100 mM)</p>
Shipping and Storage Conditions	Store at -30 ~ -15°C, transport at ≤0°C.