Oxone® Taq

Catalog Number:

Catalog #	Amount	Concentration
OX-001S	100 U	5 U/µl
OX-001M	200 U	5 U/µl
OX-001L	500 U	5 U/µl

Product Description: Oxone® Taq Polymerase is a highly processive, thermo stable enzyme. It is purified from E. coli strain that carries an overproducing plasmid, containing gene of Thermus Aquatiqus DNA polymerase. The enzyme has 5´to 3´polymerization-dependent exonuclease replacement activity but lacks 3´ to 5´exonuclease activity. Optimized for 100-300 mM dNTP, 1.5-3.0 mM MgCl2 concentrations.

Storage Conditions: Viable for 12 month at -20°C after production date.

Concentration: 5 U/µl

Unit Definition: One unit is defined as the amount of enzyme which incorporates 10 nM of dNTPs into acid-insoluble material in 30 minutes at 72°C

Reagents Provided:

- Oxone® Taq Polymerase.
- 10x Reaction Buffer 1 (with Mg2+). 100 mM Tris-HCl (pH 8.8); 500 mM KCl; 0.8% (v/v) Nonidet P40, 150mM MgCl2.
- 10x Reaction Buffer 2 (Mg2+ free). 100 mM Tris-HCl (pH 8.8); 500 mM KCl; 0.8% (v/v) Nonidet P40.
- 25 mM MgCl2.
- RNase-free H_2O.

Storage Buffer: 50 % Glycerol (v/v), 20 mM Tris-HCL (pH 8.7), 100mM KCl, 0.1 mM EDTA and stabilizers

Quality Control: Enzyme is free of nicking and priming activities, exonucleases and non-specific endonucleases. Purity evaluated by SDS-PAGE, giving 92 kDa single band, >98% pure. Activity and stability tested via thermo-cycling.

Passes Quality Control Requirment:

Date, Signature

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