

## Certificate of Analysis

**Product Description:** Taq Core Kit 25 (250 U)  
**Catalog Number:** EPTQK251  
**Lot:** 1918M0023

**Formula:** N/A  
**CAS #:** N/A  
**Physical Description:** Kit

**Formula Weight:** N/A  
**Storage:** -20°C

Test	Specification	Result
Identity Test	Passes	Passes

Taq Core Kit 25 contain all reagents required for PCR but as separated items:

- Taq DNA Polymerase: a highly purified thermostable recombinant polymerase, with a 5' - 3' exonuclease activity, but no 3' - 5' exonuclease activity. Taq DNA Polymerase resists to prolonged incubations at 95°C.
- Highly purified dNTPs: in a ready-to-use mastermix at 25 mM each, guaranteed for PCR.
- Optimised standard PCR buffers 10X C provided with and without MgCl<sub>2</sub>, highly efficient in most PCR conditions.
- MgCl<sub>2</sub> solution at 25 mM as a separate item for peculiar optimisation of MgCl<sub>2</sub> concentration.

Unit definition: One unit of DNA polymerase is the amount of enzyme required to catalyse the incorporation of 10 nanomoles of nucleosides into a DE81 adsorbable product within 30 min at 74°C under assay conditions.

Absence of contamination: No nickase, endonuclease, 3' exonuclease and ribonuclease activities detected.

PCR assay on human genomic DNA: Specific PCR products of 400bp using human beta-globin gene as a template and decreasing amounts of both DNA template and Taq DNA polymerase are obtained in all assays.

Recommended Retest Date: 01/31/2020

05/24/2019 - John Huang, PhD  
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Quality Control Manager



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