

**CERTIFICATE OF ANALYSIS**

**Product:** TP 2x SYBR Master Mix

**Catalog No:** T605, T606, T607, T607xl

**Lot No:** T605042027

**Date of Expiry:** 04/2027

**Composition:** qPCR 2x SYBR Master Mix contains: 20 mM Tris-HCl, pH 8.8 (at 25°C), 100 mM KCl, 0.2% Triton X-100, 3 mM MgCl<sub>2</sub>, 400 µM dATP, 400 µM dCTP, 400 µM dGTP, 400 µM dTTP, 50 U/ml Taq DNA polymerase, monoclonal antibody anti-Taq (38 nM), SYBR Green I, stabilizers and additives.

**Supplied with:** PCR Ultra H<sub>2</sub>O (Cat. No. P040).

**Storage temperature:** For short terms (days) at 4°C ± 3°C.  
For long terms at -20 ± 5°C. Material can be repeatedly defrosted.

**Functional Test:** The lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:

**Test conditions:**

| Volume* | Reagent                    | Final concentration                           |
|---------|----------------------------|-----------------------------------------------|
| 12.5 µl | qPCR 2x SYBR Master Mix    | 1x qPCR 2x SYBR Master Mix                    |
| 0.5 µl  | Forward primer             | 50 µM 5' primer, 5'-TTGGAGAGTTTGATCCTGGCTC-3' |
| 0.5 µl  | Reverse primer             | 50 µM 3' primer 5'-TTGGAGAGTTTGATCCTGGCTC-3'  |
| 1 µl    | Template DNA               | containing 10 ng of E-coli DNA                |
| 10.5 µl | PCR Ultra H <sub>2</sub> O | (to a final volume 25 µl)                     |

**Cycling conditions on LightCycler 96, ROCHE:**

|                      | Temperature | Time  | Number of cycles |
|----------------------|-------------|-------|------------------|
| Initial denaturation | 94°C        | 3 min | 1                |
| Denaturation         | 94°C        | 10 s  | 35               |
| Annealing of primers | 55°C        | 10 s  |                  |
| Extension            | 72°C        | 10 s  |                  |
| Final extension      | 72°C        | 7 min | 1                |
| Cooling              | 22°C        |       |                  |

**Result:** As expected, Ct values were between 18 - 20, whereas in the absence of DNA Ct >35. Furthermore, electrophoresis of the PCR product on agarose gel revealed one band of 173 bp.

**FOR RESEARCH USE****APPROVED DATE:** 18.11.2024

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