

AffiCHECK® *Mycobacterium tuberculosis* DNA PCR Qualitative Positive Control

AFG-CHK-0528

PRODUCT DESCRIPTION:

AffiCHECK® *Mycobacterium tuberculosis* DNA - PCR Qualitative Control is a high-quality, reliable standard containing known quantities of *Mycobacterium tuberculosis* DNA. It's designed using modified and non-infectious bacteria to ensure stability, thereby contributing to accurate and reliable results in PCR applications.

INTENDED USE:

AffiCHECK® *Mycobacterium tuberculosis* DNA - PCR Qualitative Control serves as a comprehensive process control for the evaluation of the performance of nucleic acid tests for determination of the presence of *Mycobacterium tuberculosis* nucleic acid. It's essential in validating the performance of PCR assays in clinical, research, and diagnostic settings.

PRODUCT FEATURES:

Specificity: Tailored for *Mycobacterium tuberculosis* DNA detection.

Formulation: Lyophilized for enhanced stability.

Convenience: Ready-to-use upon reconstitution.

Compatibility: Suitable for a wide range of PCR assays.

CHARACTERISTICS:

Cultivation & Extraction: Cultivated in Löwenstein-Jensen (LJ) medium and extracted using a reliable genomic DNA method.

Quality Control: Subjected to rigorous testing to ensure batch consistency and reliability.

Packaging: Provided in a protective, heat-sealed foil pouch with silica gel.

PERFORMANCE CHARACTERISTICS:

Sensitivity: Optimized for high sensitivity in PCR detection.

Specificity: Exclusively detects *Mycobacterium tuberculosis* DNA.

Reproducibility: Consistent results across different test runs and batches.

PACK CONTENT :

Components	Pack Size	Note
DNA Control Lyophilized (1x10 ⁴ to 2x10 ⁴ Copies/μL)	1 Vial	Quantified by Real-Time PCR.
Buffer	500 μL	Water, DNase, RNase Free.

PRECAUTIONS:

- For research use or diagnostic control purposes only.
- Follow standard laboratory practices and use PPE.
- Use [Sterile Filter Tips](#) to prevent contamination.
- Handle infectious specimens with precautions.
- Disinfect work surfaces.
- Maintain separate working areas for testing.
- Dispose of unused reagents and waste as per regulations.
- May contain genetic material, handle with care.
- No method ensures total absence of infectious agents.
- Follow local waste disposal rules.
- Dilute below 10³ copies/μL immediately before use.
- Avoid freezing for low-copy dilutions to prevent DNA degradation.

INSTRUCTIONS FOR USE:

- Open the foil pouch of AffiCHECK® *Mycobacterium tuberculosis* DNA.
- Centrifuge AffiCHECK® *Mycobacterium tuberculosis* DNA Lyophilized Powder at 1000 g for 1 minute.
- Add 100 μL of the Buffer and thoroughly mix until fully reconstituted.
- The concentration will be 1x10⁴ to 2x10⁴ Copies/μL once reconstituted.
- Vortex for 1 min for complete dissolution and homogenization.

RECOMMENDED STORAGE:

- Before Reconstitution: Store at 2-8°C.
- After Reconstitution: Store at -20°C.
- Shipping: No special instructions
- Shelf Life: 12 months from production date.

ORDERING INFORMATION :

Catalog Number	Description	Size
AFG-CHK-0528	AffiCHECK® <i>Mycobacterium tuberculosis</i> DNA PCR Qualitative Positive Control	1 vial + 500 μL Buffer