

**AffiCHECK® *Klebsiella pneumoniae* (NDM-1) DNA
PCR Qualitative Positive Control**

AFG-CHK-0515

PRODUCT DESCRIPTION:

AffiCHECK® *Klebsiella pneumoniae* (NDM-1) DNA - PCR Qualitative Control is a high-quality, reliable standard containing known quantities of *Klebsiella pneumoniae* (NDM-1) 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® *Klebsiella pneumoniae* (NDM-1) 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 *Klebsiella pneumoniae* (NDM-1) nucleic acid. It's essential in validating the performance of PCR assays in clinical, research, and diagnostic settings.

PRODUCT FEATURES:

Specificity: Tailored for *Klebsiella pneumoniae* (NDM-1) 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 Blood agar 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 *Klebsiella pneumoniae* (NDM-1) DNA.

Reproducibility: Consistent results across different test runs and batches.

PACK CONTENT :

Components	Pack Size	Note
DNA Control Lyophilized (1×10^4 to 2×10^4 Copies/ μ L)	1 Vial	Quantified by Real-Time PCR.
Buffer	500 μ L	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 10^3 copies/ μ L immediately before use.
- Avoid freezing for low-copy dilutions to prevent DNA degradation.

INSTRUCTIONS FOR USE:

- Open the foil pouch of AffiCHECK® *Klebsiella pneumoniae* (NDM-1) DNA.
- Centrifuge AffiCHECK® *Klebsiella pneumoniae* (NDM-1) DNA Lyophilized Powder at 1000 g for 1 minute.
- Add 100 μ L of the Buffer and thoroughly mix until fully reconstituted.
- The concentration will be 1×10^4 to 2×10^4 Copies/ μ L 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-0515	AffiCHECK® <i>Klebsiella pneumoniae</i> (NDM-1) DNA PCR Qualitative Positive Control	1 vial + 500 μ L Buffer