

## AffiCHECK® *Escherichia coli* (EAEC) DNA PCR Qualitative Positive Control

AFG-CHK-0490

### PRODUCT DESCRIPTION:

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

### INTENDED USE:

**AffiCHECK® *Escherichia coli* (EAEC) 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 *Escherichia coli* (EAEC) nucleic acid. It's essential in validating the performance of PCR assays in clinical, research, and diagnostic settings.

### PRODUCT FEATURES:

Specificity: Tailored for *Escherichia coli* (EAEC) 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 MacConkey agar supplemented with ampicillin 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 *Escherichia coli* (EAEC) DNA.

Reproducibility: Consistent results across different test runs and batches.

**PACK CONTENT :**

| Components   | Pack Size | Note                         |
|--|-----------|------------------------------|
| <b>DNA Control Lyophilized</b><br>(1x10 <sup>4</sup> to 2x10 <sup>4</sup> Copies/μL) | 1 Vial    | Quantified by Real-Time PCR. |
| <b>Buffer</b>  | 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 10<sup>3</sup> copies/μL immediately before use.
- Avoid freezing for low-copy dilutions to prevent DNA degradation.

**INSTRUCTIONS FOR USE:**

- Open the foil pouch of AffiCHECK® *Escherichia coli* (EAEC) DNA.
- Centrifuge AffiCHECK® *Escherichia coli* (EAEC) 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 1x10<sup>4</sup> to 2x10<sup>4</sup> 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-0490   | AffiCHECK® <i>Escherichia coli</i> (EAEC) DNA<br>PCR Qualitative Positive Control | 1 vial + 500 μL Buffer |