

nPLEX Food Total kit

Catalogue number: TAGN01001

Format: 96 reactions

DESCRIPTION

nPLEX Food Total is a real-time PCR kit which allows the detection of the most important pathogens in food industry: *Salmonella sp.*, *Staphylococcus aureus*, *Escherichia coli* and *Listeria monocytogenes* in a single PCR reaction, in food and surface samples. This kit uses polymerase chain reaction (PCR) to amplify a specific DNA sequence of a single microorganism, and a fluorophore to detect the amplified sequence.

Results can be obtained in about 3 hours after sample enrichment, and 1-10 colony forming units (CFUs) per 25 g of food can be detected.

It possesses an internal reaction control that facilitates elimination of false negatives, indicating whether the sample was inhibited by any interference in the reaction. It also includes positive controls of each pathogen and negative control to ensure that the PCR reaction was performed correctly.

Results are obtained by using the TxA Software, which provides an automatic interpretation of the PCR results.

KIT COMPONENTS

- Master mix 5X
- Primers and probe
- Internal control
- Positive control
- Negative control

STORAGE

- Keep at -20°C
- Protect from direct light
- Maximum 2 cycles of thawing

COMPATIBLE EQUIPMENTS

- AriaMx G8830A Real - Time PCR System
- Stratagene Mx3005P Real - Time PCR System
- ChaiBio Open qPCR System

TECHNICAL SPECIFICATIONS

Recommended for	Real-time PCR
Intended use	Detection of <i>Salmonella sp.</i> , <i>Staphylococcus aureus</i> , <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> in enriched food and surface samples, using real-time polymerase chain reaction (qPCR).
Detection channels	FAM
Reference fluorophore	SYBR Green
Number of Reactions	96
Target microorganisms	<i>Salmonella spp.</i> , <i>Staphylococcus aureus</i> , <i>Escherichia coli</i> , <i>Listeria monocytogenes</i>
Analysis time	3 hours
Analysis of results	Compatible with TxA software
Shelf life	1 year