

TRUPCR® CT/NG Real-Time PCR Detection Kit

TRUPCR® CT/NG Real-Time PCR Detection Kit is a Real-Time Amplification test for the qualitative detection of Human Chlamydia trachomatis (CT) and Neisseria gonorrhoeae (NG) bacterial DNA in clinical samples.

In real time PCR, the fluorescent signal is generated from the presence of an oligonucleotide probe specific for the target DNA sequence. The probe contains a fluorescent dye molecule on its 5' end and a quencher molecule on its 3' end. The probe hybridizes with the amplified fragment. During synthesis of a complementary chain, Taq DNA polymerase which possesses 5' - 3' exonuclease activity cleaves the probe. As a result, the fluorescent dye and quencher dye are separated, and the total fluorescence of reaction volume increases in direct proportion to the number of amplicon copies synthesized during PCR. The fluorescent signal is measured in each cycle of reaction, and the threshold cycle value is determined from the obtained curve. The threshold cycle is proportional to the initial number of DNA copies in a sample and its value allows qualitative comparisons of analyzed and control samples.

The TRUPCR® CT/NG Real-Time PCR Detection Kit is based on amplification of a conserved region of the bacterial genome. In this kit there are multiplexing reactions running in parallel in single tubes:

1. Chlamydia trachomatis in the FAM channel
2. Neisseria gonorrhoeae in the HEX channel
3. Internal control (IC) DNA in TexRed channel

Key features:

- Higher sensitivity and specificity.
- Extensively validated on clinical samples.
- Internal control included to avoid false-negative results.
- Rapid, more reliable, comprehensive and cost-effective tests.
- Easy work flow & compatible with various Real-time PCR instruments.

Ordering information:

Cat. No.	Product	Contents
3B281	TRUPCR® CT/NG Real-Time PCR Detection Kit	48 Rxns
3B282	TRUPCR® CT/NG Real-Time PCR Detection Kit	96 Rxns

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