

Reagent kit

C. diphtheriae Tox

Detection of Corynebacterium diphtheriae DNA with the differentiation between toxigenic and non-toxigenic strains by real-time PCR



Can be used as an additional tool to improve diagnostics and prevention of diphtheria



Detection of the C. diphtheriae toxin gene



Multiplex format



Possibility of automation



Automatic analysis of study results



Human biomaterial and bacterial cultures



High speed of the study conduction

Interpretation of the study results

- + C. diphtheriae
- + tox

- + C. diphtheriae
- tox

DNA of toxigenic C. diphtheriae strains is detected (the tox gene is detected) *

DNA of non-toxigenic C. diphtheriae strains is detected (the tox gene is not detected)

| Biomaterial | Swabs/scrapes from mucous membranes of nasopharynx and oropharynx Swabs from affected skin areas Bacterial cultures | | |
|------------------------|--|---|--|
| Transport media | · STOR-F · STOR-M | | |
| DNA extraction kits | PREP-NA PREP-GS PREP-MB RAPID PREP-Optima (suitable for bacterial cultures) | | |
| Variants of package | Standard package (Package S, strips) Standard package (Package S, tubes) Package for manual and automatic dosing (Package U) | | |
| Devices | Detecting thermocyclers DTprime DTlite DT-96 DTprime *X* (384-well microplate) | Dosing devices DTstream 12M1 DTstream 15M1 | |
| Analytical sensitivity | 10 ³ copies/mL of DNA sample | | |
| Time of analysis | From 1.5 hours (without sample preparation and DNA extraction) | | |
| Number of samples | 48 tests for package S, including control samples 96 tests for package U, including control samples | | |



Biomaterial sampling











Real-Time PCR conduction

C. diphtheriae Tox

Date: Number of tube: Patient name: Sex: Age: Organization: Clinician name:

Comments: Sample ID:

LOGOTYPE

Information about laboratory

| Nº | Name of research | Result |
|----|-----------------------|--------------|
| 1 | C. diphtheriae (tox+) | not detected |
| 2 | C. diphtheriae | DETECTED |
| | | • |

Study was carried out by Date: Signature: Automatic creation of a result form

Specialized software -Automatic result calculation and generation of the report

RealTime_PCR software



+2°C +8°C

www.dna-technology.com

