Lot-No. Ref. FR040

MANUAL – Real time one step

100 Tests (Ready to use ки)

CHLAMYDIA TRACHOMATIS (Real time)

-Only for in vitro use--Only for research use-

Expiry date: 1 year

STORE AT -20°C

-Only for research use--To be used by a technical person-

Principle and use:

This amplification kit has been manufactured by *Genekam Biotechnology AG*, Germany to detect *Chlamydia trachomatis* in real time PCR.

Real time PCR is based on fluorogenic dyes. In our kit we use 2 dyes, they are 6-Carboxy tetramethyl rhodamine (quencher) and Carboxy-fluorescein (reporter). Up to 40 Ct should be taken positive. Value between 41-45 Ct should be taken as marginal positive (doubtful).

This kit needs DNA which can be isolated from blood, serum, ocular swabs, respiratory tract, aborted material, vaginal swabs, tissue and any body fluid. Kindly use good methods to isolate the DNA.

Safety precautions should be taken as Chlamydia trachomatis is infectious. Always clean your hands before the test use and clean the hands after the test. Wash your face after the test, if possible. Disinfect your working place.

IMPORTANT: we added cotton or sponge in the lid of container of the kit, to avoid damage during transportation. Please remove this cotton or sponge from the lid of each container before storage.

Composition:

It contains the following (WARNING! THAW THE TUBES SLOWLY: NEVER THAW IN HEATING BLOCK OR WITH HEAT FROM HAND):

- Tube A (2 tubes)
- Tube B (2 tubes)
- Positive (+Ve) Control (tube D1) (1 tube)
- Negative (-Ve) Control (tube D2) (1 tube)
- Tube C (precaution: keep away from sunshine!) (1 tube)

Please check them before you start. Please store them at -20°C and dark.

Equipment needed:

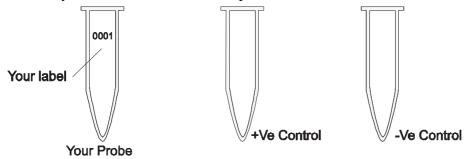
- Laboratory centrifuge
- microtubes (0.2ml)
- Pipettes with and without filter (20µl, 5µl & 1µl)
- Pipettes (quality pipettes)
- Paper
- Pen
- Vortexer
- 96 well microplates for PCR
- Real time machine

Procedure:

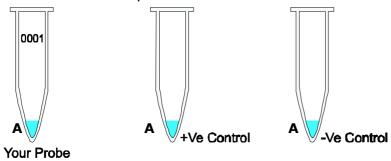
After your DNA isolation is completed. (Kindly use good quality isolation method). Please go to PCR step

STEP A

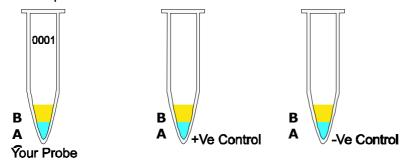
- 1. Kindly thaw one tube of A, C, D1 and D2. After thaw, kindly put the tubes on 4°C (as it is better). If the kit is not in use, store at them -20°C. Kindly keep tubes away from sunlight.
- 2. Mark your microtubes with a sample number and with +Ve Control and -Ve Control.



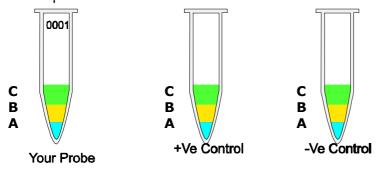
3. Thaw tube A. Add 7µl of tube A to each tube. One can also use 96 microwell plate.



4. Add 10µl of B to each microtube. Avoid to touch the wall of the microtubes.



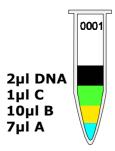
5. Add 1µl of C to each tube.



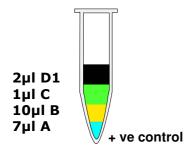
TIP: you can mix 7μ l of $A + 10\mu$ l of $B + 1\mu$ l of C together in one tube (it will be a total volume of 180μ l for 10 reactions). From this one can take 18μ l and distribute in each tube. In this way one can save the hardware and time.

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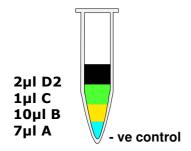
6. Add 2µl of your DNA template (DNA isolated from samples) with pipette tip with filter to each microtube according to your label except +Ve and –Ve (Avoid touching the wall). Use everytime a new pipette tip (for each sample)! Mix it.



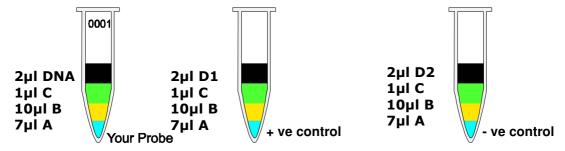
7. Use new pipette tip with filter. Add $2\mu l$ of +Ve (tube D1) to +Ve Control (avoid to touch the wall). Use a new pipette tip. Mix it.



8. Use a new pipette tip. Add $2\mu l$ of -Ve (Tube D2) to -Ve Control (avoid to touch the wall). Mix it.



- 9. Centrifuge all tubes for 20 sec. for 8000 rpm (this is not necessary but it is better). Run PCR now.
- 10. Run the program of your thermocycler as followings: Kindly check whether you have added everything correctly as the level of the volume of each microtube must be almost the same.



You must use quencher and reporter dye to setup your software (see FAQ) and run the following program:

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15 seconds at 95°C x 45 cycles 60 seconds at 60°C x 45 cycles

Before you start the PCR program, kindly check whether tubes are closed properly. **Microtubes must be in contact with metal block** (important!). There should be no air or lose contact with metal block of thermocycler. Run your PCR now.

11. After step 10 is finished take out the microtubes.

STEP B

Once the program will be finished one can see the graphics. The negative control should run along with the bottom and positive control must give a curve in the software graphics. Use your software to analyse the results.

If you should find any mistakes, please let us know. Thank you.

Suggestion:	Genekam Biotechnology AG
This manual has been written specifically for beginners, hence	Dammstr. 31-33
persons with experience in PCR must use their experience to keep	47119 Duisburg
each step as small as possible e.g. you should calculate the amount	Germany
of the needed chemicals, before starting with testing.	Tel. (+49) 203 / 555858-31,-32,-33
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Last update: 21-12-2010	anfrage@genekam.de
v1.1	http://www.genekam.de

FAQ:

1) Q: I cannot find quencher and reporter dye in my software:

A: Many software has got the words: FAM (as reporter) and TAM (as quencher). Therefore select both in your software.

If your machines has only one word (for some machines only use the word FAM) you should select this one.