



Part Number:2DK-100Version:1.0Storage:Supplied as 6 bottles
(2 x 25 ml LC, 2 x 25 ml CA & 2 x 15 ml TE)
and 2 x 1 ml tubes of PK
Store at room temperature & at -20°CBatch Number:Marked on tube

Protocol:

Before you start:

- Prepare 60°C waterbath
- Thaw Proteinase K at room temperature
- If precipitate has formed in Solution LC, incubate the bottle at 60°C for a few mins
- Put cells into a 1.5 ml microtube and add 0.5 ml of Solution LC. Vortex briefly
- Add 20 µl of Solution PK*. Vortex briefly
- The DNA can now be extracted or the sample can be kept for up to 2 months at room temp.

DNA Extraction:

- Place tube in 60°C waterbath for 1 hr (can be left longer). Vortex briefly
- If any cell/sample debris is visible after lysis, spin tube at 2,000 rpm for 2 mins
- Transfer 450 μ l of the liquid into a new 1.5 ml tube
- Add equal volume of CA. Invert tube a few times or vortex briefly
- Spin tube in a microfuge** at 13,000 rpm for 7 minutes to pellet the DNA
- Remove the supernatant carefully with a 1 ml pipette tip
- Re-spin the tube briefly and remove the rest of the liquid with a fine tip

It is very important to remove all of the liquid

- Resuspend the pellet in the appropriate volume of TE. The pellet may not be visible!
- Leave the tube for at least 5 mins*** at room temp. to re-hydrate the DNA
- Vortex briefly
- Incubate tube at 80°C for 5 mins****
- Vortex and spin the tube briefly

The DNA is now ready for amplification or can be stored. Store DNA at +4°C short term or at -20°C long term.

TIPS:

*Refreeze remainder of Proteinase K

**Place the tube with hinge positioned outwards, so liquid can be removed from the opposite site without disturbing the pellet

Depending on the type and concentration of the DNA, total re-hydration can take from 5 mins to overnight *If double stranded DNA is needed (e.g. for DNA estimation using a spectrophotometer, restriction digests etc.) don't do this step, but make sure that all of the liquid is removed

For Research Only

P2DK-100