PROTOCOL 3.

Quantification of DNA

Things to be done before the start:

- **Mix DNA samples well by integrated vortexer to achieve an accurate homogeneity of samples**
- **Let the samples and buffers to set to room temperature**

1) Turn on NanoPhotometer® P330 using on/off Key

2. Press 1 for NanoVolume option

3. Press 1 for Nucleic Acids option

4. Press 1 for dsDNA option

5. Select Lid of the NanoPhotometer® P-Class Submicroliter Cell (usually blue Lid /factor 5/)

6. Switch on the Background correction at 320 nm

7. Press Sample Key

8. Insert the NanoPhotometer® P-Class Submicroliter Cell into the cell holder with the cell windows facing the light beam (Implen® logo have to be faced to the front). Pipette 4,0 µl AE or EB buffer onto the centre of the measuring window and cover with a blue Lid

9. Press Blank Key

10. Remove Lid and use Kleenex to wipe the inside of the lid and the top of the Submicroliter Cell

11. Pipette 4,0 µl of DNA sample onto the centre of the measuring window and cover with red Lid

12. Press Sample Key. Read concentrationand A260/280 value (have to be between 1,6 i 2,0)

13. Repeat steps 9-11 for every new DNA sample

14. Measure λ DNA sample of known concentration (c=100 ng/µl) as the last but one sample

15. Measure ddH2O as the last sample

16. Use Kleenex to wipe the inside of the lid and the top of the Submicroliter Cell

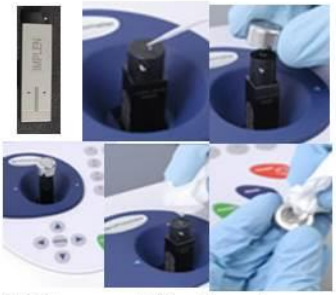
17. Press several times Escape key to reach start menu (NanoVolume option)

18. Turn off NanoPhotometer and insert Submicroliter Cell into the storage box

Laboratory equipment and accessories used for DNA quantification

NanoPhotometer® P330

Submicroliter Cell and Lids



DNA quantification steps