Oligonucleotide Resuspension

Aim: To resuspend oligonucleotides.

Equipment/Requirements-

1. Laminar Air Flow Hood
2. Pipettes and Pipette Tips
3. Microcentrifuge/PCR tubes
4. Microcentrifuge machine
5. Thermoblock
6. Vortexing Machine.
7. Nuclease free water
8. Dried DNA samples

Procedure-

1. Centrifuge DNA at 13000 rpm (approx.16000 xg). Ensure visually that it is settled.
2. Gently open the tube and add the required amount of preheated nuclease-free water slowly. (Temperature of the water should be in the range 50-60°C.)
3. Vortex the tube and centrifuge briefly (30 sec should be enough).
4. Maintain suspension at 50°C for 15-20 Minutes.
5. Make aliquots and store them at -20°C or -80°C.

Notes:

1. Perform in Laminar Air Flow Hood wherever possible.
2. Ensure high sterile conditions as contamination can occur.
3. As an alternative for nuclease-free water, use suspension buffers (like 10mM Tris-Hcl pH 8 or as per specified) keeping downstream applications in mind.
4. For resuspension of filter paper blotted DNA, cut out the paper and put it in a centrifuge tube. Follow the procedure mentioned above after that.