PLEASE READ THE FOLLOWING:

DNA submitted to the facility needs to be very pure, much purer for instance than for manual sequencing. It is for this reason that we recommend that DNA should be prepared using a commercial kit. Traditional methods, ie. alkaline lysis, can work if care is taken.

DNA Requirements

- **Plasmid DNA** should be submitted at a concentration of 100ng/µl in 10µl water per sequencing reaction.
- **Cosmid DNA** should be submitted at a concentration of 150ng/ml in 10µl water per sequencing reaction.
- **PCR fragments** should be submitted at a concentration of 20ng per 100 base pairs in 10µl water.

Any **non-standard primers** submitted should be at a concentration of 10pm/µl (10 micromolar) in water only. We use 2µl of primer solution per reaction but please give us an excess to allow for evaporation or any other potential loss.

We need the correct amount of DNA and most experienced sequencers will be able to make an accurate assessment of DNA quantity but some may have difficulty. One method is to use a Nanodrop. This can give consistent accurate results and automatically provides abs.260/280 ratio (which for best results should have a ratio around 1.8).

N.B. DNA for sequencing should always be supplied in water ONLY and not TE or Tris buffer. Also please submit samples in tubes no smaller than 0.5ml to avoid handling problems.

Please ensure that all information submitted on this form is complete and written clearly.

*For sequencing requests from departments other than Biochemistry, a **purchase order** should be submitted attached to this form.

PLEASE MARK ENVELOPES CLEARLY WITH: **DNA SEQUENCING FACILITY**.