



UNIVERSITY OF CAMBRIDGE
CAMBRIDGE GENOMIC SERVICES-DEPARTMENT OF PATHOLOGY
TENNIS COURT ROAD · CAMBRIDGE · CB2 1QP · ENGLAND
Telephone: 01223 333 709 email: cgs@path.cam.ac.uk



SANGER DNA SEQUENCING REQUEST FORM

Date _____ Name _____

Tel. No. _____ Department _____

Head of group _____

Email address _____

Grant Code _____ (Pathology only)

Purchase Order Number * _____ * A printed purchase order **must** accompany this form

Sample specifications, please tick and complete as appropriate

Plasmid DNA

Cosmid DNA

PCR product _____ base pairs

Please keep sample & primer names short - enter custom primer names or pull down list for stock primers

Sample	Vol. (µl)	Conc.(ng/µl)	260/280 Ratio	Primer	Conc.(pmol/µl)
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

Comments:

PLEASE READ THE NOTES OVERLEAF

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**.