Protein Facility costing 12/4/10
Ruth Rose

Cost of Use of the Protein Production Facility

- All charges are subject to review and for a personalised cost (i.e. if your protein or clone is known to be atypical) you should discuss your project with the protein facility manager as it may be more cost effective to incorporate time of facility personnel into your grant and add consumables separately. Before you do, please come and discuss your requirements with the protein production facility manager.
- Members of staff who are probationers or without a grant will be charged the subsidised rate. Members of staff other than probationers who are unable to meet charges whilst establishing research income should discuss funding for use of the facility with the Head of School.
- Please read the service level agreement for terms and conditions.
- Work will be completed on a first come, first served basis. However, priority will be given to those with grants funding use of the facility over those without.
- Approximate time frames have been quoted but may be subject to variation. Progress reports can be provided and notification given should there be any significant change to the schedule.
- Use of the fermentor only (option 10) must be negotiated.
- Anaerobic preparations are available (option 15). These will be charged in the same way as the preparative method (option 7-13) with an additional charge for use of the glove box (option 15) that will be applied per day of actual glove box usage. Charging for crystallisation under anaerobic conditions (option 14 + 15) will be costed by the same method. Should your protein require anaerobic conditions, it is critical that the facility be informed as soon as possible.

Charges for cloning/creation of DNA vectors

All costs include primer design and purchase, where applicable, and sequencing of the final vector.

	Subsidised Cost	Grant holders	Approximate time frame
1. Generation of sequenced clone in a destination vector from DNA template	£ 105.00	£ 304.37	4 weeks
2. Subcloning of DNA from a vector into 1 expression vector	£ 45.00	£ 149.72	2 weeks
3. Direct cloning into a destination vector	£ 87.00	£ 250.13	3 weeks
4. Generation of expression vector optimised for codon usage	£ 0.75 p/b	£ 29.41 + £0.75 p/b	3 weeks

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Charges for Protein Production

	Subsidised Cost	Grant holders	Approximate time frame
5. Solubility test and expression analysis (recommended)	£ 11.36	£ 64.93	1 week
6. Single step purification from 1L (pilot expression)	£ 25.68	£ 205.30	1 week
7. FPLC pure protein from 1L	£ 35.51	£ 268.70	2 weeks
8. FPLC pure protein from 4L	£ 50.67	£ 283.86	2 weeks
9. FPLC pure protein from fermentor	£ 59.75	£ 292.94	3 weeks
10. Single growth in the fermentor	£ 35.85	£ 89.42	1 week
11. Purification tag removal (cost plus additional calculated per mg of recombinant protein)	£ 19.17 + £15.00 per mg protein	£ 66.35 + £15.00 per mg protein	3 weeks
12. N15 labelled protein (4L)	£ 487.89	£ 721.08	3 weeks
13. C13 labelled protein (4L)	£ 1,940.25	£2,173.44	3 weeks
14. Single crystal screen (Hampton Research 1 & 2) – not including purification	£ 114.56	£192.29	2 weeks
15. Protein manipulation under anaerobic conditions.	£ 121.68 per day	£ 320.02 per day	As stated for preparation option

Charges for use of equipment

	SBCS charge per hour	QMUL charge per hour
Ultracentrifuge	£ 0	£ 4
Speed Vac	£ 0	£ 5