

C-Collection

X-ray diffraction data collection service at DLS, UK



The service for a protein X-ray diffraction data collection.

- ◇ The mail-in service of Diamond Light Source (DLS), a synchrotron radiation facility in the UK, is used.
- ◇ Customers can obtain diffraction data without leaving the laboratory.
- ◇ No prolonged shutdowns. Can be used for urgent data acquisition.

Features

1. Easy application

Confocal Science takes care of all the procedures such as export of protein crystal samples and application for use to DLS.

The customer is expected to send the necessary data and frozen protein crystals.

2. Data acquisition in a short time from application

The data will be delivered in as fast as about one month from the application.

DLS has no long-term shutdowns and is available year-round.

3. High performance X-ray detector

High-performance X-ray detectors, PILATUS 6M or Eiger2 XE 16M are used for the data collection.

They are 2-dimensional single-photon counting pixel array type detectors, with high dynamic range and signal-to-noise ratio.

4. Confidentiality

It is not necessary to disclose a protein name, etc.

Upon request, Confocal Science will fix a confidentiality agreement.

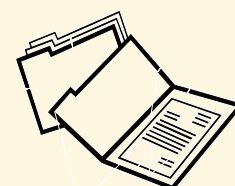


5. Sending the crystal

Please store the frozen crystals in the designated location in the UNIPUCK and send them to Confocal Science by dry shipper. (Option: Confocal Science will freeze crystals. For this case, it is required to send the protein crystals and the harvest and cryoprotectant solutions.)

6. Delivery of the data set

A set of raw data files output by PILATUS6M or Eiger2 XE 16M will be delivered. (Option: Confocal Science will perform scaling, evaluation and converting the data to F data with statistical information. A customer can start structural analysis immediately after receiving the data)

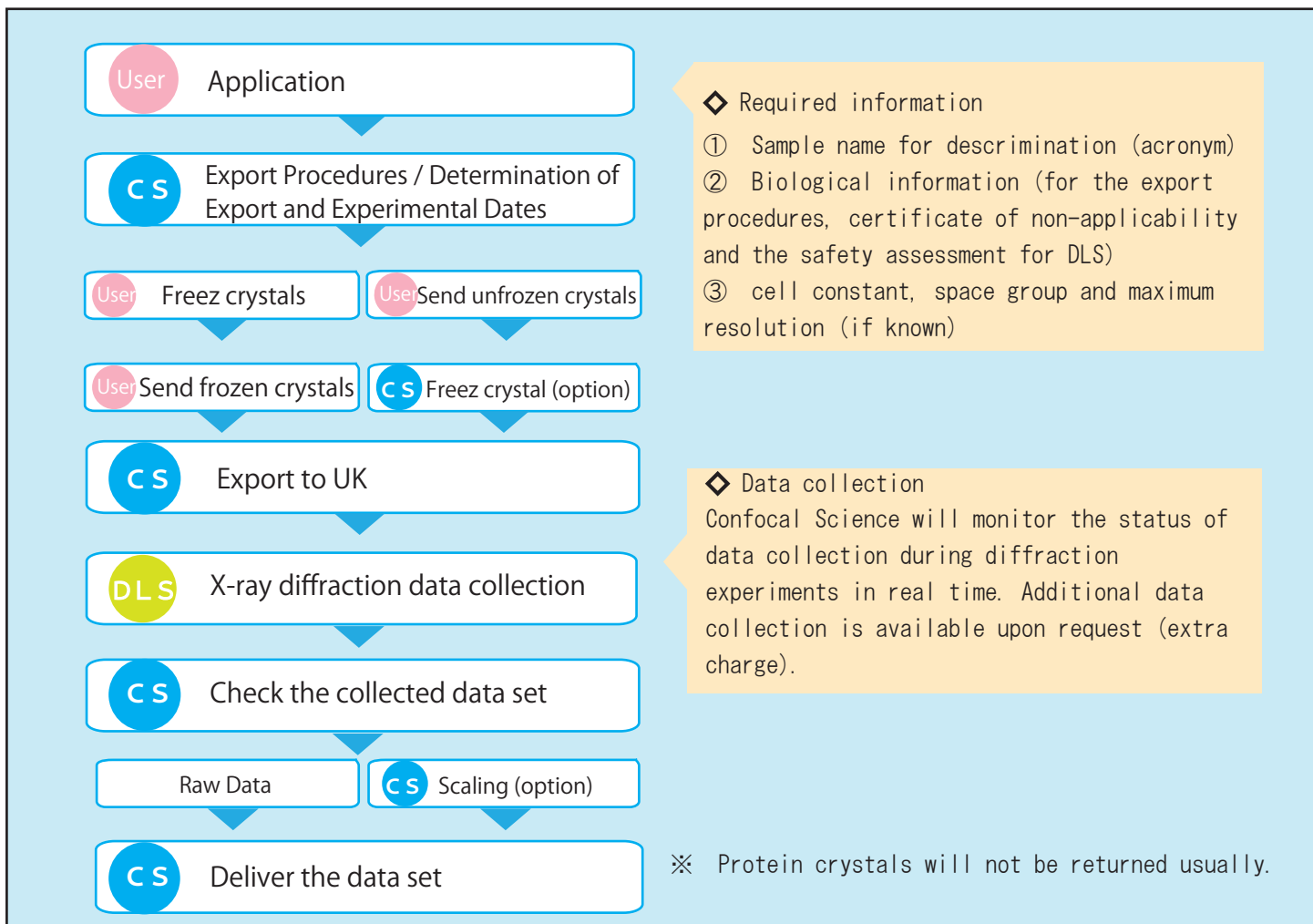


7. Safe Overseas Transportation

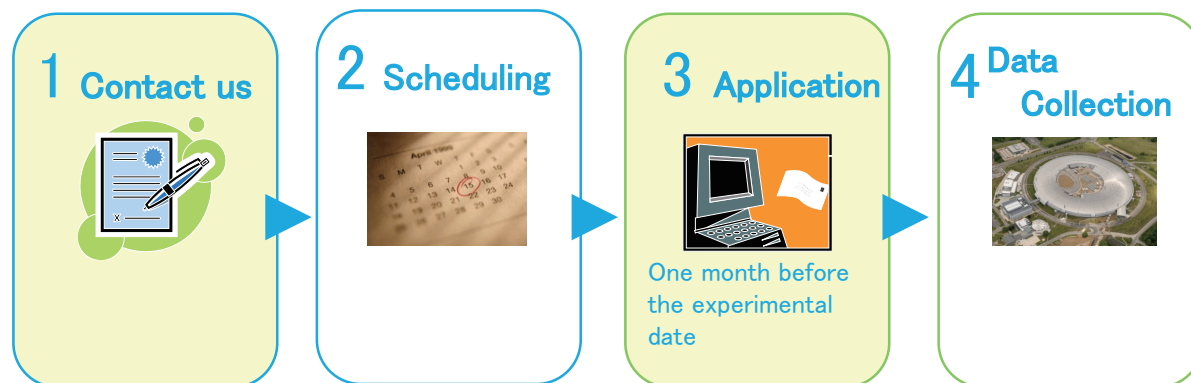
A reliable courier carrier completes customs clearance to the UK prior to export.

The frozen crystals are transported to DLS quickly and reliably.

Process



Application



Option (extra fee)

- Cryo-cooling the protein crystals
- Scaling the collected data set

Contact

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