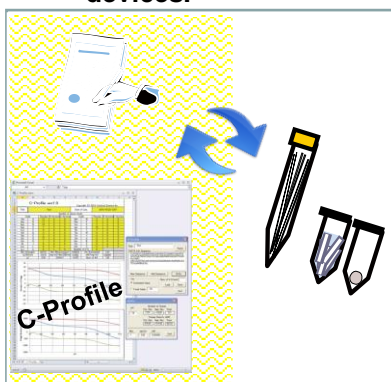


Comprehensive Service for trouble shooting in protein crystallization

Proposing appropriate countermeasures for protein expression, crystallization, structural analysis, and others.

1 『Providing crystallization reagents and devices』

Hearing the problems in the crystallization, Confocal Science will provide with several appropriate crystallization reagent solutions. C-Kit Ground Pro XRD¹ is necessary for the crystallization devices.



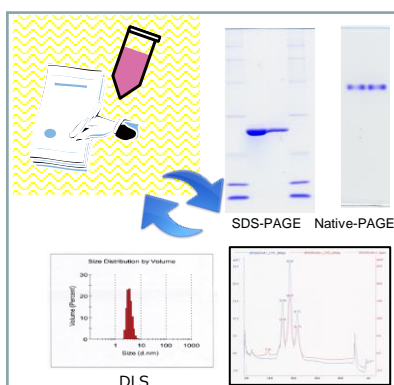
Customer provides: amino acid sequence of protein (FASTA format) and crystallization problems

It is not necessary to disclose the details of the protein or to provide a protein sample. If it is difficult to disclose the amino acid sequence, the physicochemical properties of the protein sample estimated by C-Profile² is necessary.

- ◆ Solution delivery: ¥40,000 ~ 60,000 (w/o VAT) / 1 time (4~6 species)
- ◆ Disclosure of solution compositions: ¥300,000 (w/o VAT)/ 1 species

2 『Evaluation of the protein sample』

Evaluate protein samples for suitability for crystallization and isothermal titration calorimetry (ITC).



Based on biochemical analysis and physicochemical properties estimated from the amino acid composition of the protein sample, as well as empirical evaluation, Confocal Science will suggest ways to improve or purify the sample.

Items provided by the customer: Protein sample (about 0.5 mg)

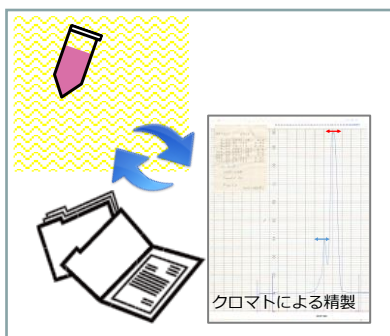
Amino acid composition of proteins

※ If it is difficult to disclose the amino acid sequence, the physicochemical properties of the protein sample estimated by C-Profile² is necessary.

- ◆ Cost: ¥900,000 (w/o VAT)

3 『Examination of the purification methods』

Examine purification method of protein samples to make them suitable for crystallization or ITC.



After conducting “Evaluation of protein samples”, a suitable purification method will be proposed.

Items provided by the customer: Protein sample (about several tens mg)

Amino acid composition of proteins

- ◆ Cost: Estimated based on the result of “Evaluation of the protein sample”.

4 『Optimization of crystallization conditions for XRD』

Optimize crystallization conditions to obtain a crystal for X-ray diffraction and confirm its quality.



Confocal Science optimizes the crystallization conditions to obtain a crystal for X-ray diffraction experiment. If a good shaped crystal is obtained, the crystallization condition and method will be reported. If requested, X-ray diffraction data will be collected to confirm the diffraction quality of the crystals.

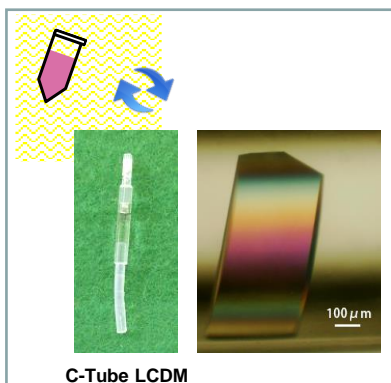
Items provided by the customer: Protein sample (about several tens mg)

Amino acid composition of proteins

◆Cost: Estimated based on the result of “Evaluation of the protein sample”.

5 『Optimization of conditions for a large crystal』

Optimization of crystallization conditions for large crystals for neutron diffraction experiments.



Confocal Science optimize the crystallization conditions to obtain a large crystal for neutron diffraction experiment. If a good and large crystal is obtained, the crystallization condition and method will be reported. If requested, X-ray diffraction data will be collected to confirm the diffraction quality of the crystals.

Items provided by the customer: Protein sample (about several tens mg)

Amino acid composition of proteins

◆Cost: Estimated based on the result of “Evaluation of the protein sample”.

※1 C-Kit Ground Pro XRD: A protein crystallization kit for X-ray diffraction experiments.

※2 C-Profile: A program that calculates the basic physicochemical properties of a protein from its amino acid sequence.

Cat. ID.	Product Name	Qty.	Price(w/o VAT)	Content
CRT101-1	C-Kit Ground Pro XRD	1 set	¥50,400-	A set of experimental devices
CRT700	C-Profile	1 set	¥10,000-	CD, Instruction Manual

Confocal Science Inc.



Musashino Bld. 2F. Fukasawa 5-14-15, Setagaya-ku
Tokyo, 158-0081 Japan
TEL: +81-3-5809-1561 FAX: +91-3-6411-6261
e-Mail : info@confsci.co.jp
Web: <http://www.confsci.co.jp/>

(Ver.2406)