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| Experiment title: A Number of Proteins from Bacteria to Eukarya and from Antarctic to Volcanic Areas | Experiment number: MX-71 | |
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Report:

Diffraction data from the mutant form S188A of chloroplast A₄-GAPDH complexed with NADP, have been collected to 2.1 Å of resolution. The crystals dimensions were about 0.3×0.3×0.1 and the diffraction spot shape was nice. Three data collection were made and the data were merged together.

Table

Unit cell parameters and data collection statistics

| | |
|-----------------------------|--|
| Unit cell (Å) | a = 143.902 b = 190.290 c = 109.046 |
| Space group | C222 |
| Mosaicity | 0.4 |
| Measured reflections | 1664456 |
| Unique reflections | 85447 |
| Completeness (%) | 98 |
| Redundancy | 10.0 |
| I/S(I) | 26.5 (9.4) |
| Rsym | 0.086 (0.399) |

The values in parenthesis refer to the last resolution shell (2.18-2.10 Å)

Diffraction data for the diathin protein (RIP family) have been collected to 1.3 Å of resolution. The crystals dimensions were about 0.5×0.4×0.3 and the diffraction spot shapes were nice.

Two data sets have been collected, but the second crystal was probably twinned.

Table

Unit cell parameters and data collection statistics

| | |
|-----------------------------|---|
| Unit cell (Å) | a = 37.568 b = 78.654 c = 43.136 b = 105.391 |
| Space group | P21 |
| Mosaicity | 0.4 |
| Measured reflections | 402394 |
| Unique reflections | 47487 |
| Completeness (%) | 94 |
| Redundancy | 6.6 |
| I/s(I) | 26.3 (10.4) |
| Rsym | 0.063 (0.255) |

The values in parenthesis refer to the last resolution shell (1.45-1.4 Å)

A data set from the oxidized A₂B₂ isoform of chloroplast GAPDH has been collected. The bipyramidal crystal (dimensions 0.2×0.2×0.3) diffracted to 3.0 Å. The data reduction was unsuccessful.