|  |  |  |  |
| --- | --- | --- | --- |
| *Hardware* |  | *Software* |  |
| Microscope | Titan Krios | **Data collection** | EPU v 2.8.0 |
| Detector (mode) | K2 (counted) | **Collection method** | AFIS |
| Accelerating voltage | 300 keV |  |  |
| Spherical aberration | 2.7 |  |  |
|  |
| *Data acquisition parameters* |  |  |  |
| Apertures (C1, C2, C3) | 2000, 70, 2000 | **Defocus range (µm, step size)** | -1.2 to -2.7 (0.3) |
| Objective aperture | 100 | **Dose (e/px/sec)** | 7.75 |
| Energy filter slit (eV) | 20 | **Dose (e/Å2/sec)** | 11.5 |
| Illuminated area (µm) | 1.00 | **Exposure time (sec)** | 5 |
| Spot size | 6 | **Total dose (e/Å2)** | 57.5 |
| Tilt angle (°) | 0 | **Dose fractions (#)** | 40 |
| Nominal magnification | 165 000 x | **Dose per fraction (e/Å2)** | 1.44 |
| Pixel size (Å) | 0.82 |  |  |
|  |
| *Data processing parameters* |  |  |
|  | **PrgB apo** | **PrgB ssDNA** |
| Number of micrographs (total) | 2797 | 1670 |
| Initial particle number (subset 500 micrographs) | 170,826 |  |
| Initial particle number (total) | 1,186,745 | 714,102 |
| Final particle number (total) | 283,630 | 163,566 |
| Average map resolution (Å) | 8-10 | 9-11 |
| FSC threshold  | 0.143 | 0.143 |