



## wwPDB EM Validation Summary Report ⓘ

Feb 19, 2025 – 12:26 pm GMT

EMDB ID : EMD-51500  
Title : Partial (48mer) encapsulin shell assembly from Mycobacterium tuberculosis  
Authors : Lewis, C.J.; Berger, C.; Ravelli, R.B.G.  
Deposited on : 2024-09-06  
Resolution : 5.42 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMMapValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

---

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : **FAILED**  
Validation Pipeline (wwPDB-VP) : 2.41

# 1 Experimental information

| Property                             | Value              | Source    |
|--------------------------------------|--------------------|-----------|
| EM reconstruction method             | SINGLE PARTICLE    | Depositor |
| Imposed symmetry                     | Not Provided       |           |
| Number of particles used             | 3427               | Depositor |
| Resolution determination method      | FSC 0.143 CUT-OFF  | Depositor |
| CTF correction method                | Not provided       |           |
| Microscope                           | FEI TITAN KRIOS    | Depositor |
| Voltage (kV)                         | 300                | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 40.0               | Depositor |
| Minimum defocus (nm)                 | 0.7000000000000001 | Depositor |
| Maximum defocus (nm)                 | 2.0                | Depositor |
| Magnification                        | 163000.0           | Depositor |
| Image detector                       | GATAN K3 (6k x 4k) | Depositor |