



## Full wwPDB EM Map Validation Report ⓘ

Dec 7, 2020 – 03:57 pm GMT

EMDB ID : EMD-0512  
Title : Cryo-electron tomography of marine bacterium *T. autotrophicus* EF1 strain reveals an S\_layer pattern on outer membrane.  
Authors : Nicastro, D.; Zhao, X.W.  
Deposited on : 2019-01-30  
Resolution : Not provided

This is a Full wwPDB EM Map Validation 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : **FAILED**  
Validation Pipeline (wwPDB-VP) : 2.13

# 1 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	Not Provided	Depositor
Number of tilted images used	61	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	1.52	Depositor
Minimum defocus (nm)	0.3	Depositor
Maximum defocus (nm)	0.5	Depositor
Magnification	26000.0	Depositor
Image detector	DIRECT ELECTRON DE-16 (4k x 4k)	Depositor