



Full wwPDB EM Map Validation Report ⓘ

Dec 7, 2020 – 03:53 pm GMT

EMDB ID : EMD-0513
Title : Subtomogram average of S_layer structure on the outer membrane surface of Thioglobus autotrophicus EF1 cell
Authors : Nicastro, D.; Zhao, X.W.
Deposited on : 2019-01-30
Resolution : 35.00 Å(reported)

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

We welcome your comments at 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	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	1840	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	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