wwPDB EM Map Validation Summary Report (i)

Dec 9, 2020 – 01:15 pm GMT

EMDB ID	:	EMD-7321
Title	:	Integrative Structure and Functional Anatomy of a Nuclear Pore Complex
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Deposited on	:	2017-12-27
Resolution	:	28.00 Å(reported)

This is a wwPDB EM Map Validation Summary 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

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

1 Experimental information (i)

Property	Value	Source
EM reconstruction method	subtomogramAveraging	Depositor
Imposed symmetry	POINT, C8	Depositor
Number of images used	1864	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Phase flipping of tilted images with etomo in IMOD running in batchtomo mode. The final reconstruction used 1,864 (of the 6,416 initial) particles. Theoretical CTF curves for the mean defocus values present in the tomograms were averaged assuming 10% amplitude contrast. The reciprocal of this curve was then applied as a filter to the final uncorrected map.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	3.0	Depositor
Minimum defocus (nm)	4.6	Depositor
Maximum defocus (nm)	7.5	Depositor
Magnification	9434.0	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor