

wwPDB EM Validation Summary Report (i)

Mar 31, 2021 - 09:20 am BST

EMDB ID : EMD-10454

Title : Campylobacter jejuni fliH deletion flagellar motor

Authors: Matthews-Palmer, T.; Beeby, M.

Deposited on : 2019-11-05

Resolution : 43.00 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
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 : 0.0.0.dev75

Validation Pipeline (wwPDB-VP) : 2.1

1 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C17	Depositor
Number of subtomograms used	285	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose $(e^-/\text{Å}^2)$	120.0	Depositor
Minimum defocus (nm)	3.0	Depositor
Maximum defocus (nm)	Not provided	
Magnification	25000.0	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.667	Depositor
Minimum map value	-0.794	Depositor
Average map value	-0.031	Depositor
Map value standard deviation	0.162	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	1242.0, 1242.0, 1242.0	wwPDB
Map dimensions	150, 150, 150	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	8.28, 8.28, 8.28	Depositor



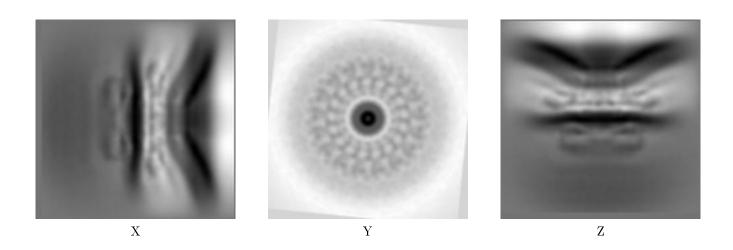
Map visualisation (i) 2

This section contains visualisations of the EMDB entry EMD-10454. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

Orthogonal projections (i) 2.1

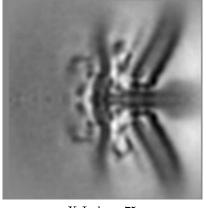
2.1.1Primary map



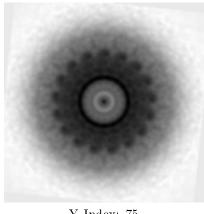
The images above show the map projected in three orthogonal directions.

2.2Central slices (i)

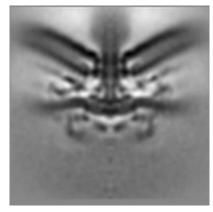
2.2.1Primary map



X Index: 75



Y Index: 75



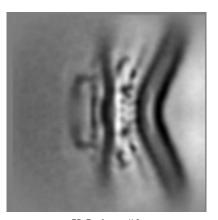
Z Index: 75

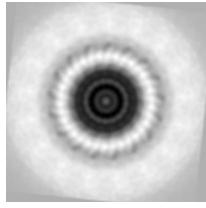


The images above show central slices of the map in three orthogonal directions.

Largest variance slices (i) 2.3

2.3.1Primary map







X Index: 58

Y Index: 100

Z Index: 92

The images above show the largest variance slices of the map in three orthogonal directions.

Orthogonal surface views (i) 2.4

2.4.1Primary map



X



Υ



 \mathbf{Z}

The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.



2.5 Mask visualisation (i)

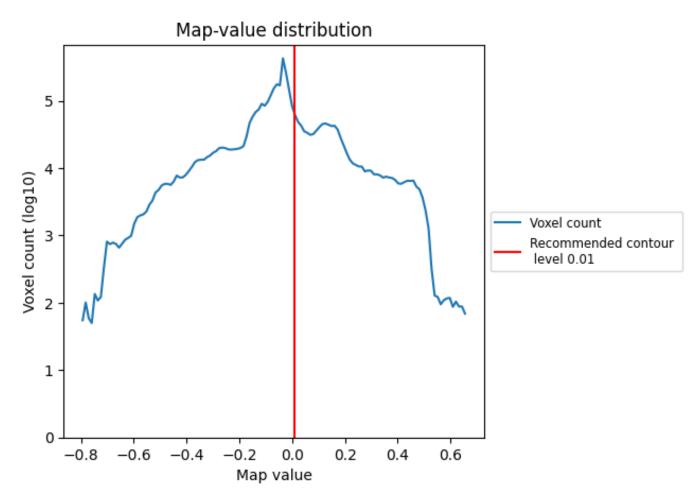
This section was not generated. No masks/segmentation were deposited.



3 Map analysis (i)

This section contains the results of statistical analysis of the map.

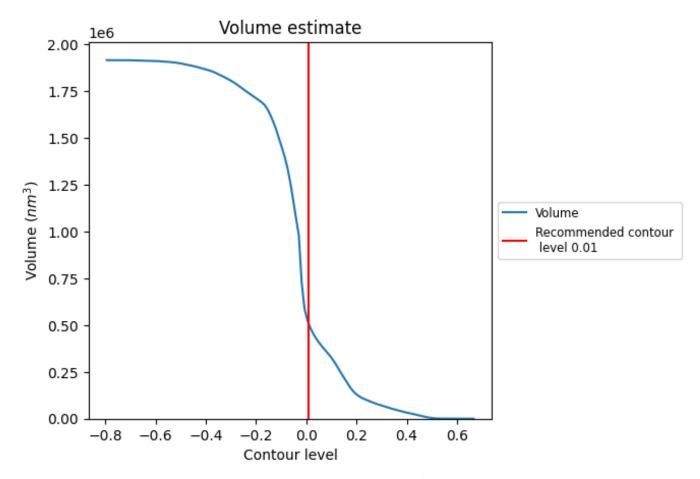
3.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.



3.2 Volume estimate (i)

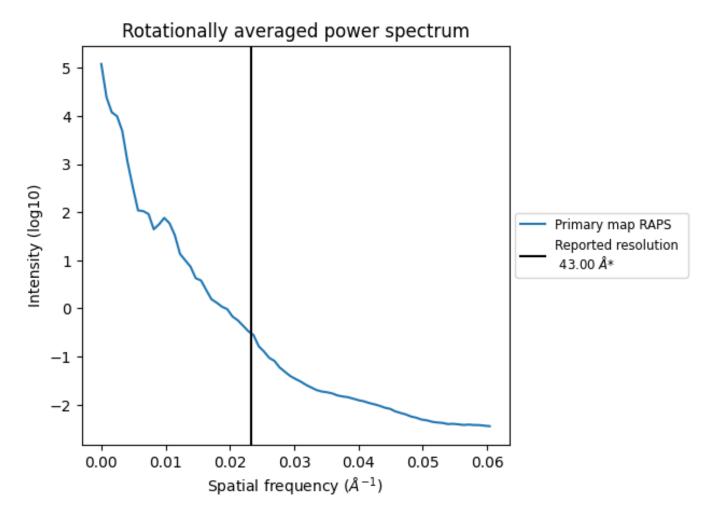


The volume at the recommended contour level is 507684 nm^3 ; this corresponds to an approximate mass of 458604 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.



3.3 Rotationally averaged power spectrum (i)



^{*}Reported resolution corresponds to spatial frequency of 0.023 $\rm \AA^{-1}$



4 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

