

wwPDB EM Validation Summary Report (i)

Dec 5, 2020 - 03:16 pm GMT

ΕM	IDB ID	:	EMD-1416		
	Title	:	Helical structure of the needle of the type III secretion system of Shigella		
			flexneri.		
A	Authors	:	Cordes, F.S.; Komoriya, K.; Larquet, E.; Yang, S.; Egelman, E.H.; Blocker,		
			A.; Lea, S.M.		
Depos	sited on	:	2007-08-31		
Res	solution	:	16.00 Å(reported)		
Г	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:

1 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	Not Provided	
Number of segments used	Not provided	
Resolution determination method	OTHER	Depositor
CTF correction method	Not provided	
Microscope	FEI/PHILIPS CM120T	Depositor
Voltage (kV)	120	Depositor
Electron dose $(e^-/\text{\AA}^2)$	10	Depositor
Minimum defocus (nm)	0.7	Depositor
Maximum defocus (nm)	0.7	Depositor
Magnification	60000.0	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	560.348	Depositor
Minimum map value	-66.357	Depositor
Average map value	28.021	Depositor
Map value standard deviation	79.574	Depositor
Recommended contour level	221.0	Depositor
Map size (Å)	159, 159, 265	wwPDB
Map dimensions	60, 60, 100	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	2.65, 2.65, 2.65	Depositor



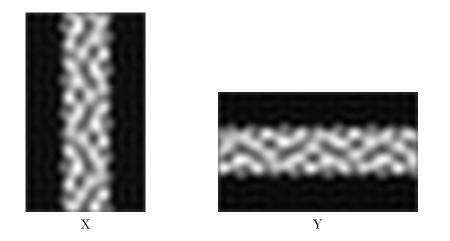
2 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1416. 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.

2.1 Orthogonal projections (i)

2.1.1 Primary map



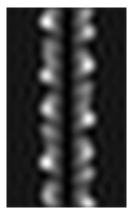


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The images above show the map projected in three orthogonal directions.

2.2 Central slices (i)

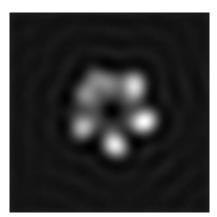
2.2.1 Primary map



X Index: 30



Y Index: 30



Z Index: 50



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

2.3 Largest variance slices (i)

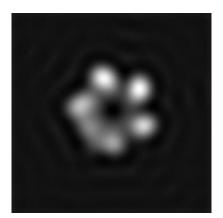
2.3.1 Primary map



X Index: 22



Y Index: 38

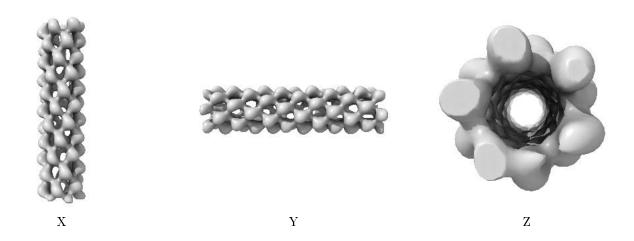


Z Index: 96

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

2.4 Orthogonal surface views (i)

2.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 221.0. 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)

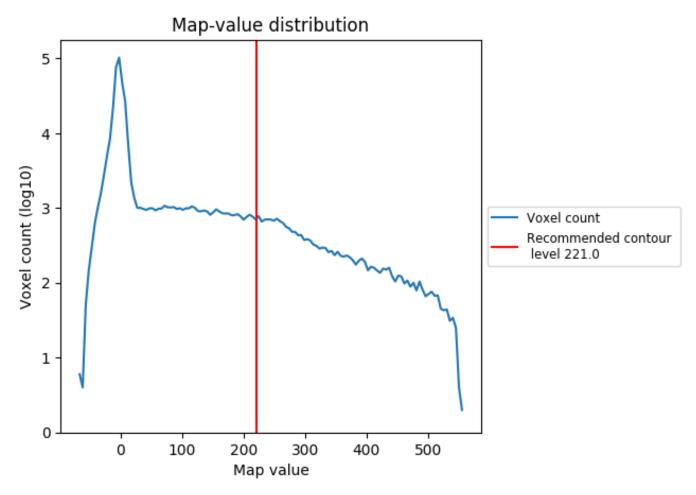
This section was not generated. No masks/segmentation were deposited.



3 Map analysis (i)

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

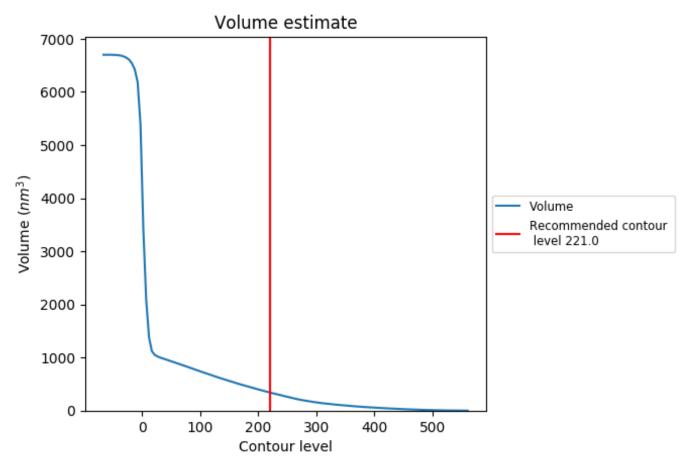
3.1 Map-value distribution (i)



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 338 nm^3 ; this corresponds to an approximate mass of 306 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)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.



4 Fourier-Shell correlation (i)

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

