

# Full wwPDB EM Validation Report (i)

Dec 5, 2020 - 12:49 pm GMT

EMDB ID : EMD-1098

Title: Three-dimensional structure of a bacterial oxalate transporter.

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S.

Deposited on : 2004-08-23

Resolution : 6.50 Å(reported)

This is a Full wwPDB EM 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 (i) symbol.

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

 $\begin{array}{ccc} EMDB \ validation \ analysis & : & 0.0.0. dev 61 \\ Validation \ Pipeline \ (wwPDB-VP) & : & 2.15.1 \end{array}$ 

# 1 Experimental information (i)

Property	Value	Source
EM reconstruction method	CRYSTALLOGRAPHY	Depositor
Imposed symmetry	2D CRYSTAL, $a=100.3 \text{ Å}, b=79 \text{ Å}, c=100$	Depositor
	$ $ Å, $\gamma$ =90°, space group=P 2 21 21	
Number of images used	Not provided	
Resolution determination method	OTHER	Depositor
CTF correction method	ctfsearch or ttrefine on each image	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	10	Depositor
Minimum defocus (nm)	0.1	Depositor
Maximum defocus (nm)	2.0	Depositor
Magnification	57000.0	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	256.000	Depositor
Minimum map value	-162.380	Depositor
Average map value	5.499	Depositor
Map value standard deviation	48.494	Depositor
Recommended contour level	54.0	Depositor
Map size (Å)	100.30002, 79.00005, 100.000084	wwPDB
Map dimensions	86, 65, 157	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.551099, 0.526667, 0.549451	Depositor



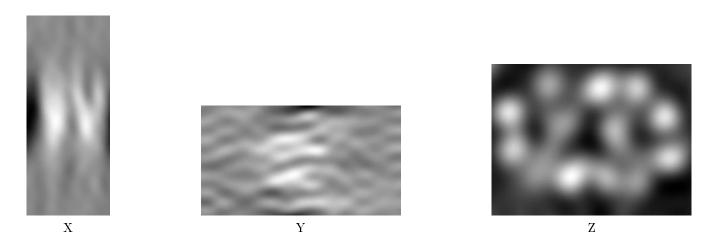
# 2 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1098. 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)

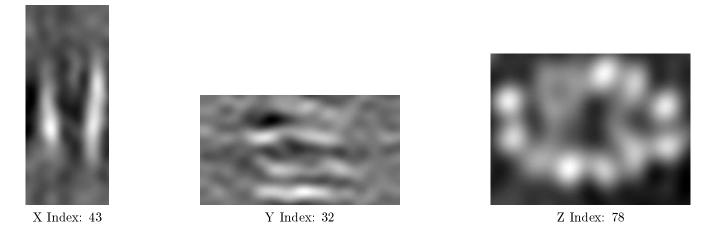
#### 2.1.1 Primary map



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

## 2.2 Central slices (i)

#### 2.2.1 Primary map

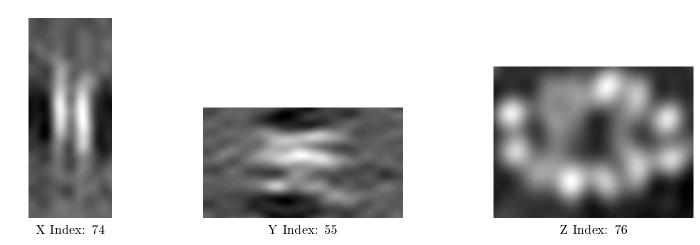




The images above show central slices of the map in three orthogonal directions.

#### 2.3 Largest variance slices (i)

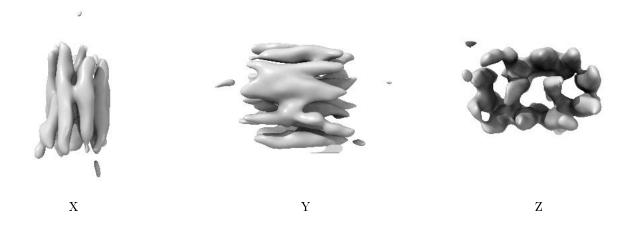
#### 2.3.1 Primary map



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 54.0. 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)

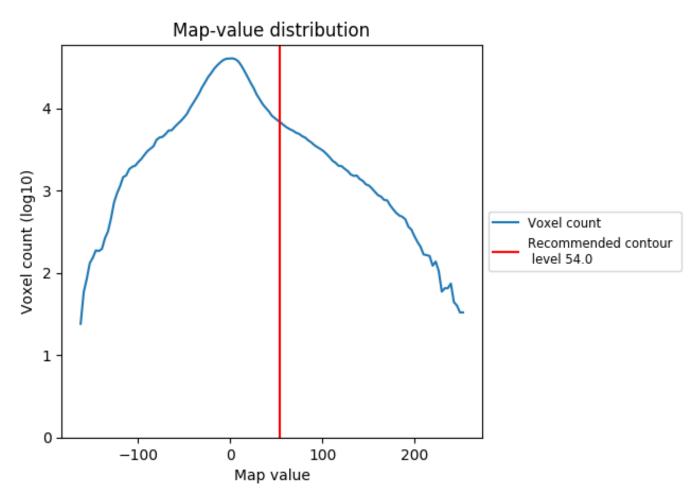
This section was not generated. No masks/segmentation were deposited.



## 3 Map analysis (i)

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

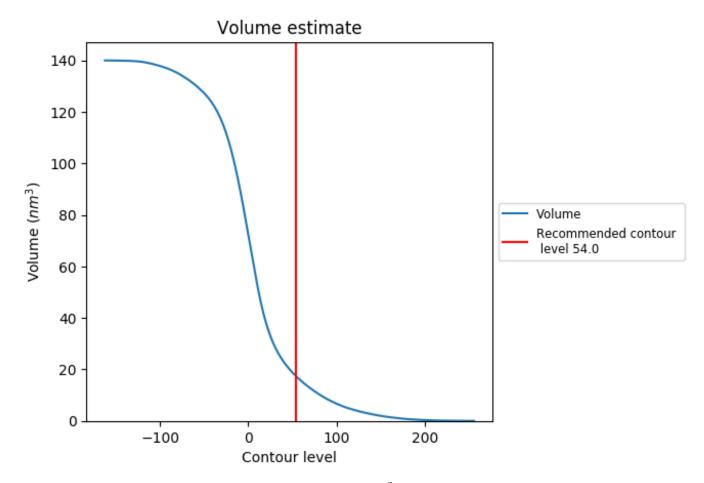
### 3.1 Map-value distribution (i)



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  $17 \text{ nm}^3$ ; this corresponds to an approximate mass of 16 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.

