W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB EM Validation Summary Report (i)

Feb 13, 2024 – 06:40 pm GMT

EMDB ID	:	EMD-17414
Title	:	Cryo-electron tomogram of isolated Vaccinia Virus cores
Authors	:	Datler, J.; Hansen, J.M.; Thader, A.; Schloegl, A.; Hodirnau, V.V.; Schur, F.K.M.
Deposited on	:	2023-05-22
Resolution	:	Not provided

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/EMTomogramValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

EMDB validation analysis	:	0.0.1.dev70
Validation Pipeline (wwPDB-VP)	:	2.36

1   Experimental information ⓘ

| Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	Not Provided	
Number of tilted images used	43	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	158.0	Depositor
Minimum defocus (nm)	2.361	Depositor
Maximum defocus (nm)	2.361	Depositor
Magnification	64000.0	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum voxel value	2.680	Depositor
Minimum voxel value	-7.839	Depositor
Average voxel value	-0.398	Depositor
Voxel value standard deviation	0.286	Depositor
Recommended contour level	Not applicable	
Tomogram size (Å)	4198.24, 6628.8003, 2065.976	wwPDB
Tomogram dimensions	380, 600, 187	wwPDB
Tomogram angles (°)	90.0, 90.0, 90.0	wwPDB
Grid spacing (Å)	11.048, 11.048, 11.048	Depositor

2　Tomogram visualisation ⓘ

This section contains visualisations of the EMDB entry EMD-17414. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.
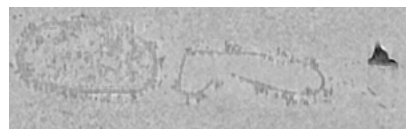
2.1　Orthogonal projections ⓘ

X	Y	Z
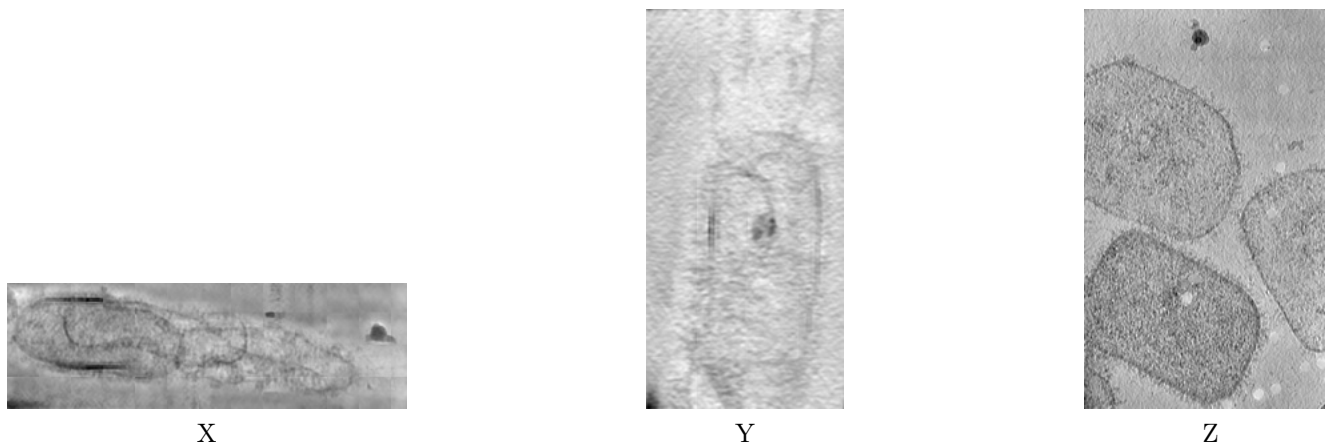
The images above show the tomogram projected in three orthogonal directions.

2.2　Central slices ⓘ

X Index: 190	Y Index: 300	Z Index: 93
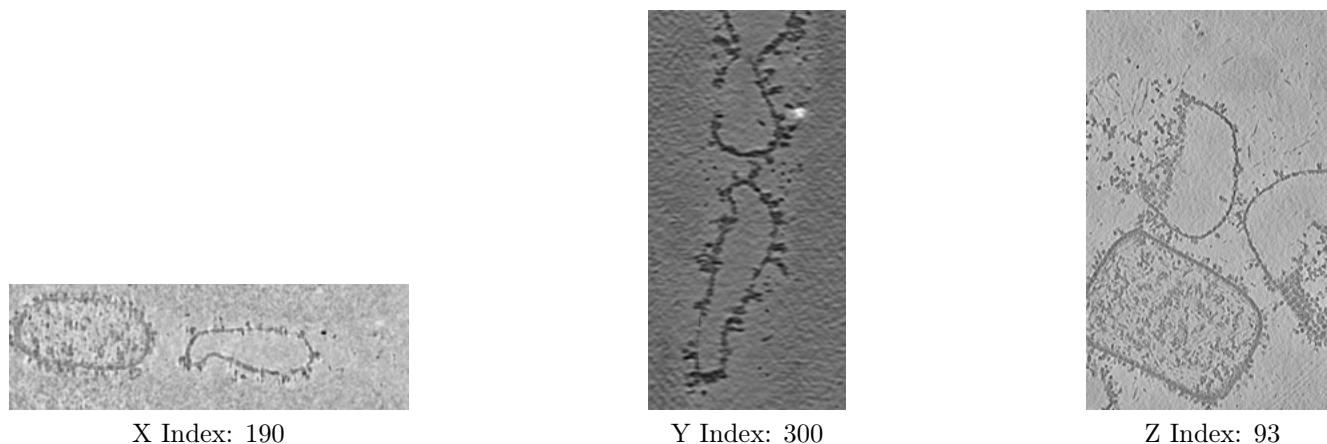
The images above show central slices of the tomogram in three orthogonal directions.

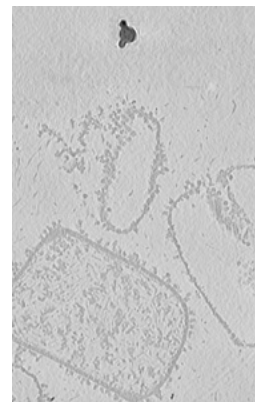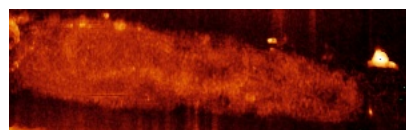## 2.3 Largest variance slices ⓘ

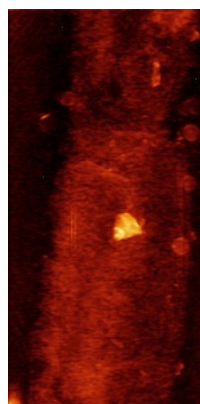
X Index: 168
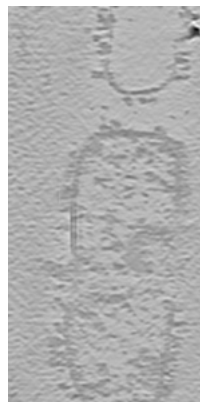
Y Index: 148

Z Index: 107

The images above show the largest variance slices of the tomogram in three orthogonal directions.
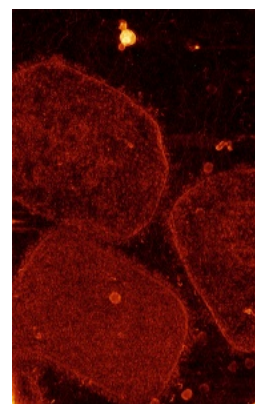
2.4 Orthogonal standard-deviation projections (False-color) ⓘ

X

Y

Z

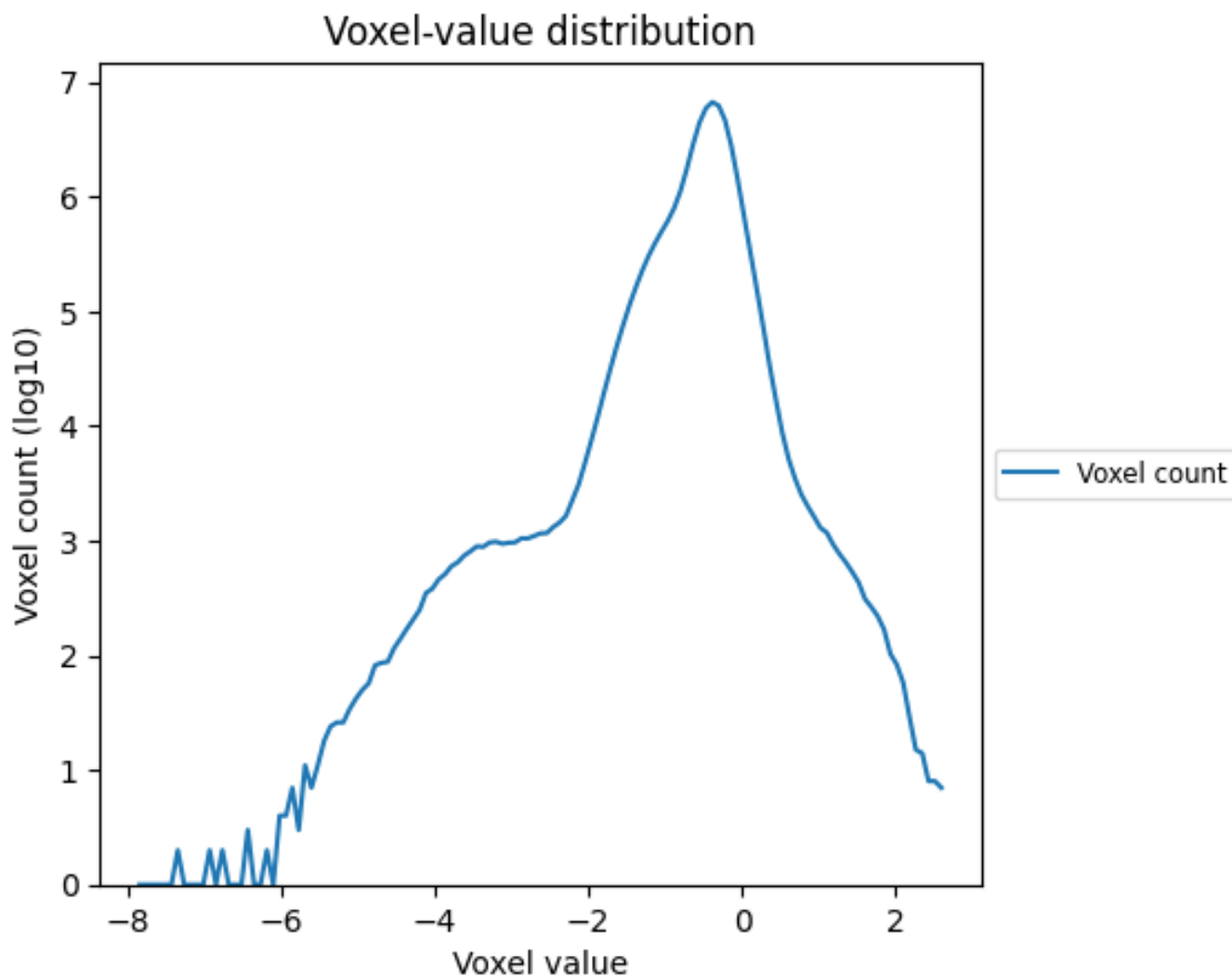The images above show the tomogram projected in three orthogonal directions.

2.5 Mask visualisation ⓘ

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

3 Tomogram analysis ⓘ

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

3.1 Voxel-value distribution ⓘ

The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.