wwPDB EM Validation Summary Report (i)

Nov 18, 2026 – 06:29 pm GMT

EMDB ID	:	EMD-100405
Title	:	Cryo-electron tomogram of Corynebacterium glutamicum
Authors	:	Petersen, M.; Mishra, R.; Weber, M.S.; Rafalik, A.; Acharya, B.; Brown, T.; Lechner, V.; Bousquet, C.; Hoos, M.; Kummer, A.; Guerrero, E.; Papson, C.; Aboagye, A.; Lee, B.S.; Sdunnus, S.; Berney, M.; Hannebelle, M.; Riggi, M.; Swarts, B.; Chavent, M.; Im, W.; Weiss, G.L.; Thacker, V.V.
Deposited on	:	2026-10-21
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 (1)) were used in the production of this report:

EMDB validation analysis	:	0.0.1.dev133
Validation Pipeline (wwPDB-VP)	:	2.51

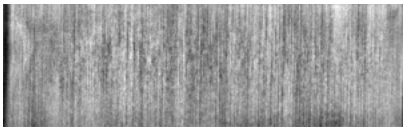
1 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	Not Provided	
Number of tilted images used	41	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	2.9	Depositor
Minimum defocus (nm)	6.0	Depositor
Maximum defocus (nm)	6.0	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOCONTINUUM (6k x 4k)	Depositor
Maximum voxel value	174.009	Depositor
Minimum voxel value	-165.775	Depositor
Average voxel value	0.000	Depositor
Voxel value standard deviation	24.715	Depositor
Recommended contour level	Not applicable	
Tomogram size (Å)	10969.088, 15425.28, 4681.144	wwPDB
Tomogram dimensions	1024, 1440, 437	wwPDB
Tomogram angles (°)	90.0, 90.0, 90.0	wwPDB
Grid spacing (Å)	10.712, 10.712, 10.712	Depositor

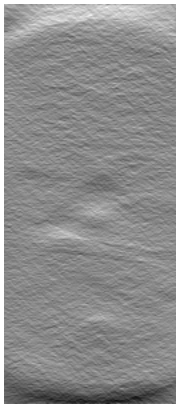
2 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-100405. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

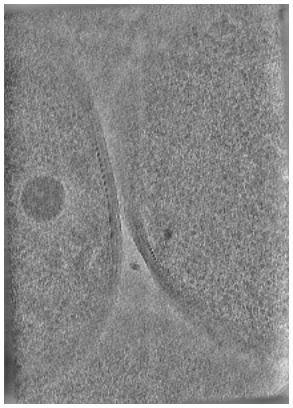
2.1 Orthogonal projections



X



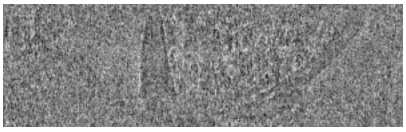
Y



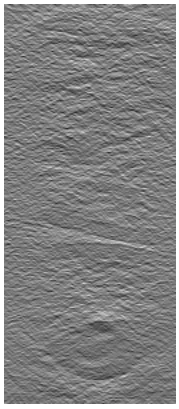
Z

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

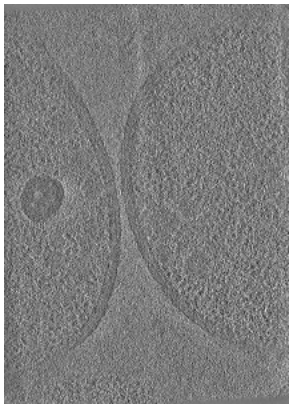
2.2 Central slices



X Index: 512



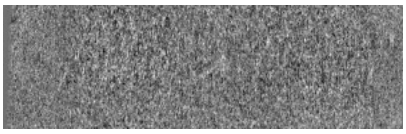
Y Index: 720



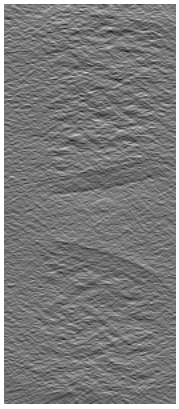
Z Index: 218

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

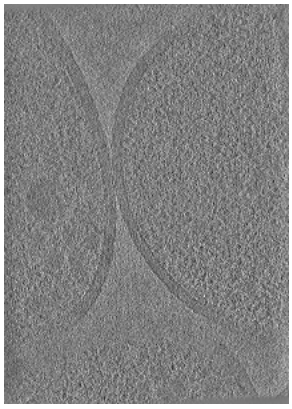
2.3 Largest variance slices (i)



X Index: 938



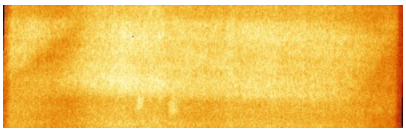
Y Index: 441



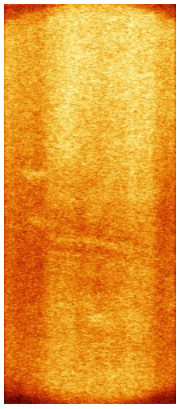
Z Index: 324

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

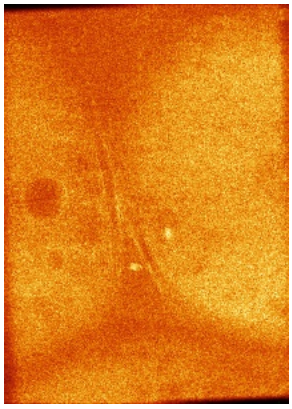
2.4 Orthogonal standard-deviation projections (False-color) (i)



X



Y



Z

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

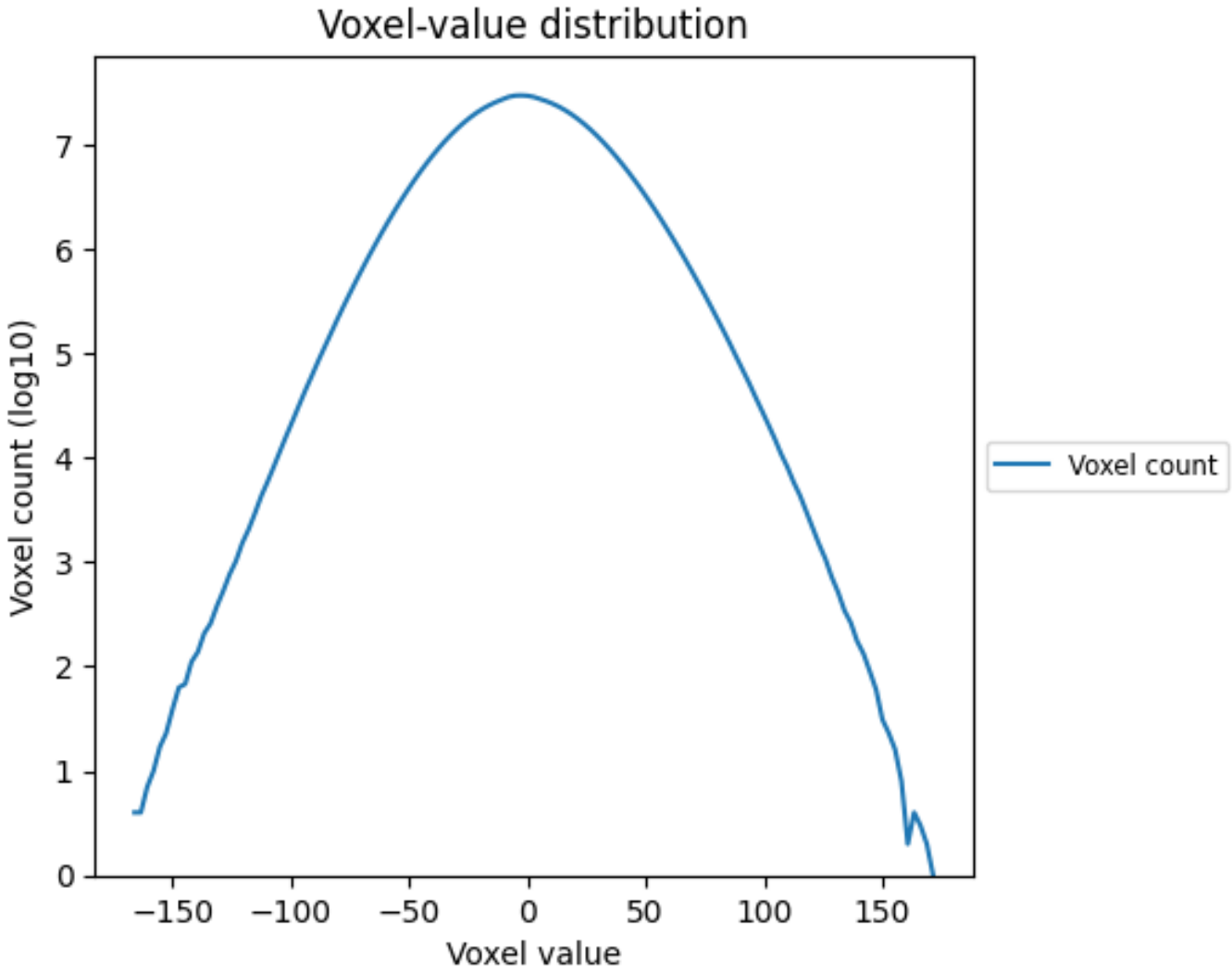
2.5 Mask visualisation (i)

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.