



# Full wwPDB EM Validation Report ⓘ

Nov 2, 2021 – 02:42 PM EDT

EMDB ID : EMD-25345  
Title : Tertiary structure of an individual particle of self-folding RNA polymer (particle #112)  
Deposited on : 2021-10-30  
Resolution : 23.70 Å(reported)

This is a Full wwPDB EM Validation Report.

This report is produced by the wwPDB biocuration pipeline after annotation of the structure.

We welcome your comments at [validation@mail.wwpdb.org](mailto: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 ⓘ symbol.

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

EMDB validation analysis : 0.0.0.dev97  
Validation Pipeline (wwPDB-VP) : 2.23.2

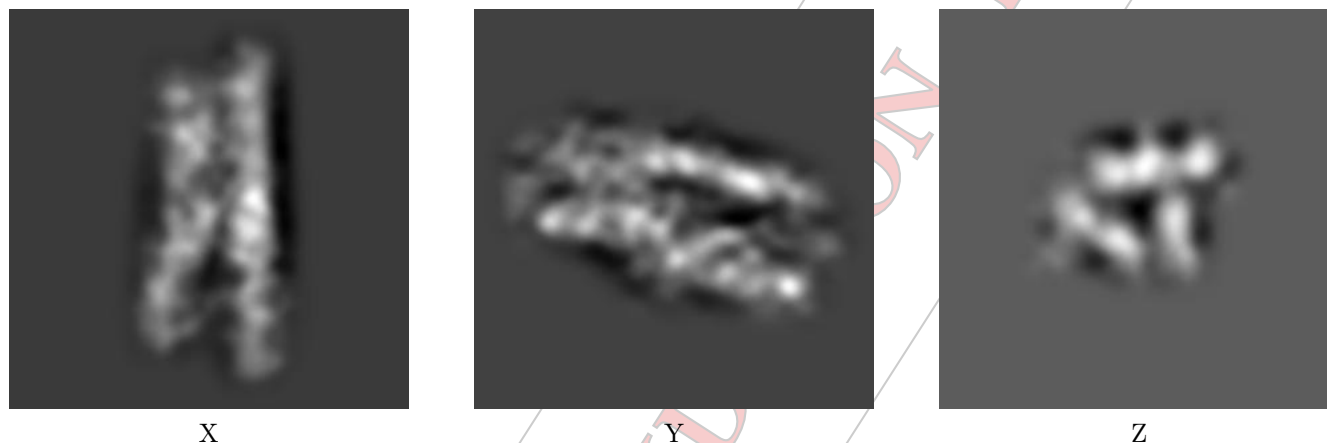
# 1 Experimental information

| Property                             | Value   | Source    |
|--------------------------------------|---|-----------|
| EM reconstruction method             | TOMOGRAPHY  | Depositor |
| Imposed symmetry                     | POINT, Not provided   |           |
| Number of tilted images used         | 21  | Depositor |
| Resolution determination method      | FSC 0.143 CUT-OFF   | Depositor |
| CTF correction method                | PHASE FLIPPING AND AMPLITUDE CORRECTION; The Contrast Transfer Function (CTF) was determined by Gctf and then corrected by TOMOCTF. | Depositor |
| Microscope                           | FEI TITAN KRIOS   | Depositor |
| Voltage (kV)                         | 300   | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 8   | Depositor |
| Minimum defocus (nm)                 | Not provided  |           |
| Maximum defocus (nm)                 | Not provided  |           |
| Magnification                        | 81000   | Depositor |
| Image detector                       | GATAN K3 BIOQUANTUM (6k x 4k)   | Depositor |
| Maximum voxel value                  | 5.188   | Depositor |
| Minimum voxel value                  | -1.822  | Depositor |
| Average voxel value                  | 0.029   | Depositor |
| Voxel value standard deviation       | 0.312   | Depositor |
| Recommended contour level            | 1.63  | Depositor |
| Tomogram size (Å)                    | 240.64, 240.64, 240.64  | wwPDB     |
| Tomogram dimensions                  | 128, 128, 128   | wwPDB     |
| Tomogram angles (°)                  | 90.0, 90.0, 90.0  | wwPDB     |
| Grid spacing (Å)                     | 1.88, 1.88, 1.88  | Depositor |

## 2 Tomogram visualisation [i](#)

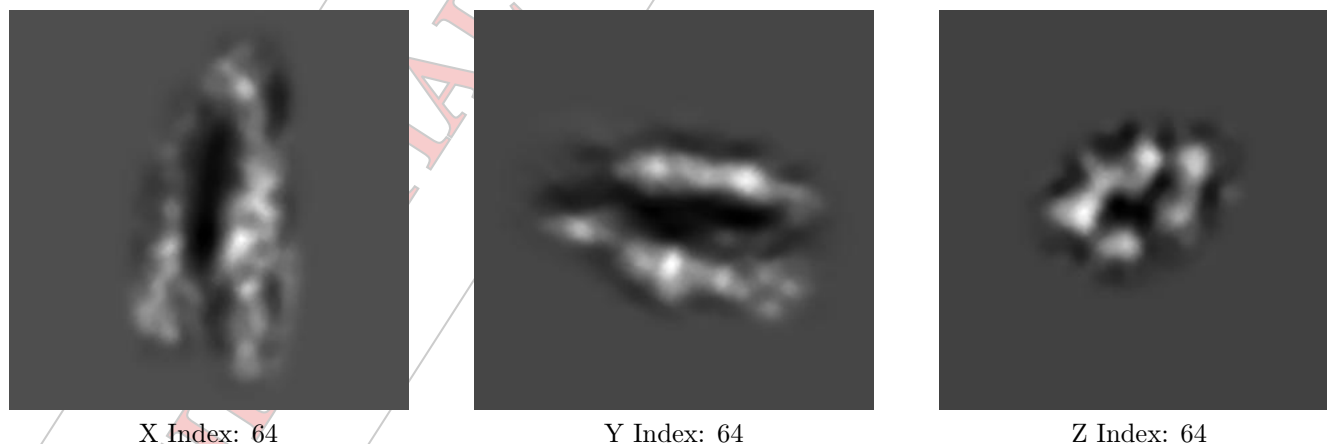
This section contains visualisations of the EMDB entry EMD-25345. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

### 2.1 Orthogonal projections [i](#)



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

### 2.2 Central slices [i](#)



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

## 2.3 Largest variance slices [i](#)



X Index: 59



Y Index: 62



Z Index: 59

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

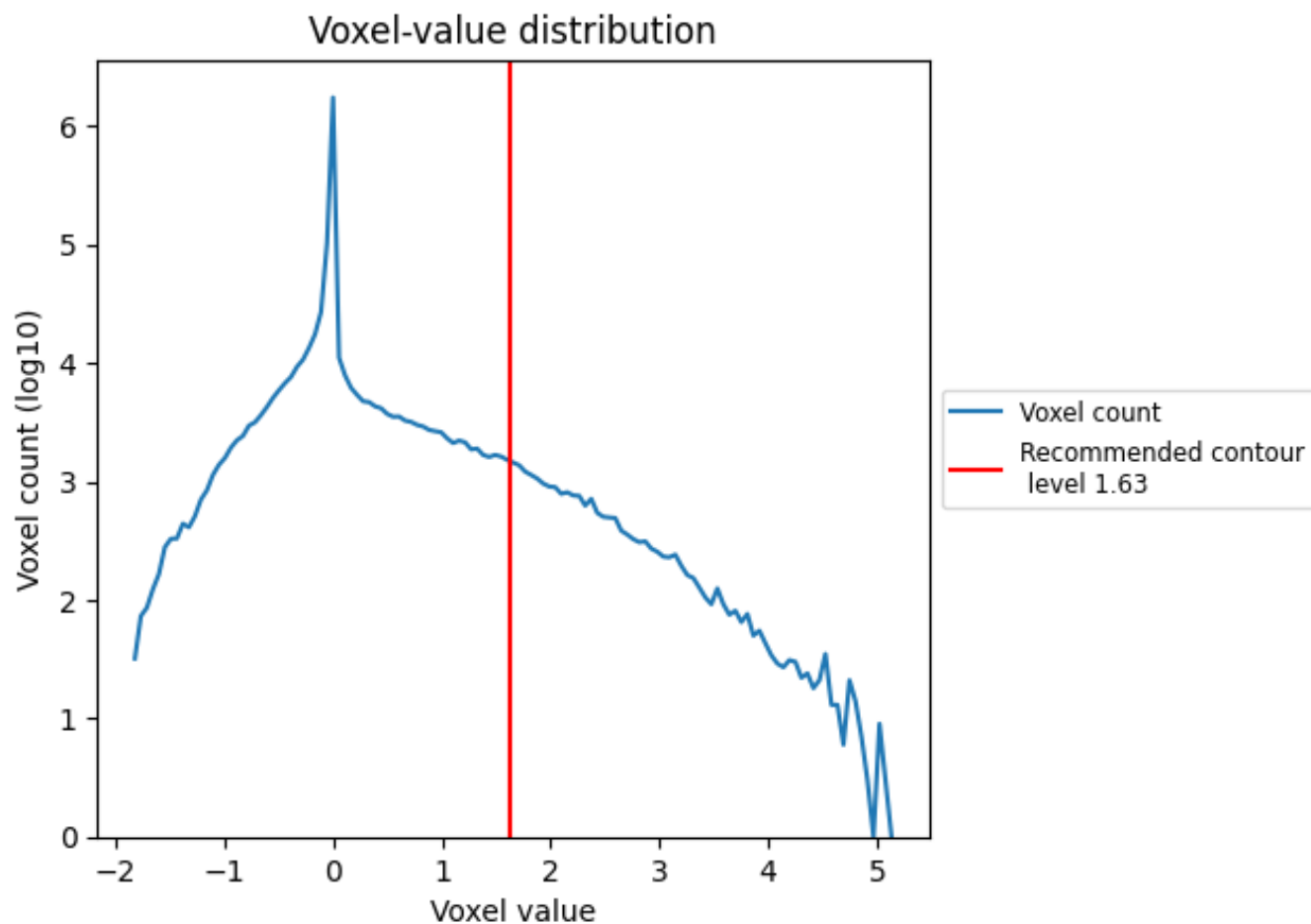
## 2.4 Mask visualisation [i](#)

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

### 3 Tomogram analysis [i](#)

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

#### 3.1 Voxel-value distribution [i](#)



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