



# wwPDB X-ray Structure Validation Summary Report

Feb 27, 2014 – 11:27 AM GMT

PDB ID : 4A6O  
Title : CpGH89CBM32-4, produced by Clostridium perfringens, in complex with glc  
NAc-alpha-1,4-galactose  
Authors : Ficko-Blean, E.; Stuart, C.P.; Suits, M.D.; Cid, M.; Tessier, M.; Woods, R.J.;  
Boraston, A.B.  
Deposited on : 2011-11-07  
Resolution : 2.80 Å(reported)

This is a wwPDB validation summary report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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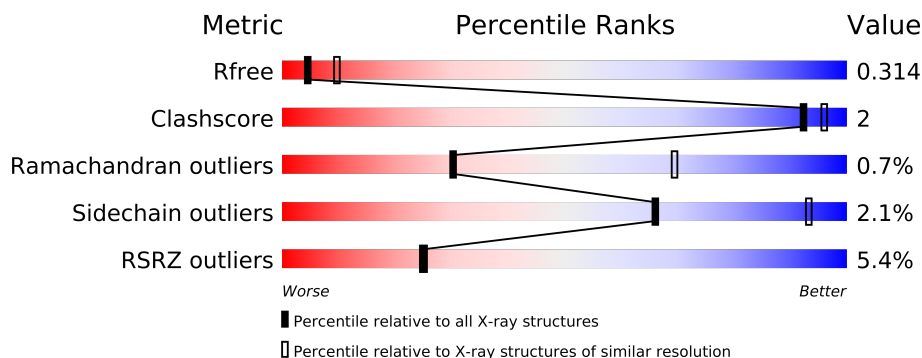
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.15 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable22639  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable22683

# 1 Overall quality at a glance



The reported resolution of this entry is 2.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	66092	1799 (2.80-2.80)
Clashscore	79885	2295 (2.80-2.80)
Ramachandran outliers	78287	2252 (2.80-2.80)
Sidechain outliers	78261	2254 (2.80-2.80)
RSRZ outliers	66119	1802 (2.80-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	161	
1	B	161	

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2366 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called ALPHA-N-ACETYLGLUCOSAMINIDASEFAMILY PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	144	Total	C	N	O	S	0	0	0
			1097	678	186	229	4			
1	B	144	Total	C	N	O	S	0	2	0
			1103	682	186	231	4			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1183	MET	-	EXPRESSION TAG	UNP Q0TST1
A	1184	GLY	-	EXPRESSION TAG	UNP Q0TST1
A	1185	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1186	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1187	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1188	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1189	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1190	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1191	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1192	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1193	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1194	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1195	GLY	-	EXPRESSION TAG	UNP Q0TST1
A	1196	LEU	-	EXPRESSION TAG	UNP Q0TST1
A	1197	VAL	-	EXPRESSION TAG	UNP Q0TST1
A	1198	PRO	-	EXPRESSION TAG	UNP Q0TST1
A	1199	ARG	-	EXPRESSION TAG	UNP Q0TST1
A	1200	GLY	-	EXPRESSION TAG	UNP Q0TST1
A	1201	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1202	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1203	MET	-	EXPRESSION TAG	UNP Q0TST1
A	1204	ALA	-	EXPRESSION TAG	UNP Q0TST1
A	1205	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1183	MET	-	EXPRESSION TAG	UNP Q0TST1

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1184	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1185	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1186	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1187	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1188	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1189	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1190	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1191	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1192	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1193	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1194	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1195	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1196	LEU	-	EXPRESSION TAG	UNP Q0TST1
B	1197	VAL	-	EXPRESSION TAG	UNP Q0TST1
B	1198	PRO	-	EXPRESSION TAG	UNP Q0TST1
B	1199	ARG	-	EXPRESSION TAG	UNP Q0TST1
B	1200	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1201	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1202	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1203	MET	-	EXPRESSION TAG	UNP Q0TST1
B	1204	ALA	-	EXPRESSION TAG	UNP Q0TST1
B	1205	SER	-	EXPRESSION TAG	UNP Q0TST1

- Molecule 2 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	2	Total	C	N	O	0	0
			26	14	1	11		
2	B	2	Total	C	N	O	0	0
			26	14	1	11		

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1183	MET	-	EXPRESSION TAG	UNP Q0TST1
A	1184	GLY	-	EXPRESSION TAG	UNP Q0TST1
A	1185	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1186	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1187	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1188	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1189	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1190	HIS	-	EXPRESSION TAG	UNP Q0TST1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1191	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1192	HIS	-	EXPRESSION TAG	UNP Q0TST1
A	1193	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1194	SER	-	EXPRESSION TAG	UNP Q0TST1
A	1195	GLY	-	EXPRESSION TAG	UNP Q0TST1
A	1196	LEU	-	EXPRESSION TAG	UNP Q0TST1
A	1197	VAL	-	EXPRESSION TAG	UNP Q0TST1
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A	1203	MET	-	EXPRESSION TAG	UNP Q0TST1
A	1204	ALA	-	EXPRESSION TAG	UNP Q0TST1
A	1205	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1183	MET	-	EXPRESSION TAG	UNP Q0TST1
B	1184	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1185	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1186	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1187	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1188	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1189	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1190	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1191	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1192	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1193	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1194	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1195	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1196	LEU	-	EXPRESSION TAG	UNP Q0TST1
B	1197	VAL	-	EXPRESSION TAG	UNP Q0TST1
B	1198	PRO	-	EXPRESSION TAG	UNP Q0TST1
B	1199	ARG	-	EXPRESSION TAG	UNP Q0TST1
B	1200	GLY	-	EXPRESSION TAG	UNP Q0TST1
B	1201	SER	-	EXPRESSION TAG	UNP Q0TST1
B	1202	HIS	-	EXPRESSION TAG	UNP Q0TST1
B	1203	MET	-	EXPRESSION TAG	UNP Q0TST1
B	1204	ALA	-	EXPRESSION TAG	UNP Q0TST1
B	1205	SER	-	EXPRESSION TAG	UNP Q0TST1

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total 2	Ca 2	0	0
3	A	1	Total 1	Ca 1	0	0

- Molecule 4 is water.

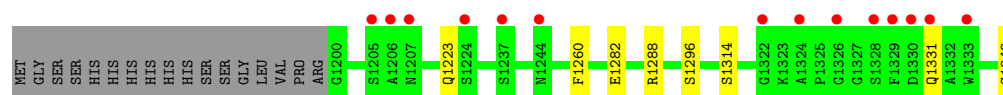
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	57	Total 57	O 57	0	0
4	B	54	Total 54	O 54	0	0

### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

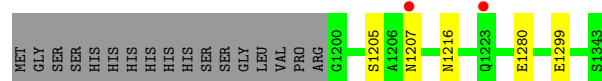
- Molecule 1: ALPHA-N-ACETYLGLUCOSAMINIDASEFAMILY PROTEIN

Chain A: 



- Molecule 1: ALPHA-N-ACETYLGLUCOSAMINIDASEFAMILY PROTEIN

Chain B: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	89.71Å 49.89Å 63.17Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.80 19.91 – 2.80	Depositor EDS
% Data completeness (in resolution range)	97.3 (20.00-2.80) 97.7 (19.91-2.80)	Depositor EDS
$R_{merge}$	0.15	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.38 (at 2.79Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, $R_{free}$	0.285 , 0.318 0.283 , 0.314	Depositor DCC
$R_{free}$ test set	331 reflections (4.83%)	DCC
Wilson B-factor (Å <sup>2</sup> )	21.4	Xtriage
Anisotropy	0.326	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 6.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	2 of 7221 reflections (0.028%)	Xtriage
$F_o, F_c$ correlation	0.86	EDS
Total number of atoms	2366	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 51.47 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 5.5837e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<sup>1</sup>Intensities estimated from amplitudes.



## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, GAL, NDG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	A	0.33	0/1116	0.51	0/1507
1	B	0.34	0/1128	0.52	0/1523
All	All	0.33	0/2244	0.52	0/3030

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1097	0	0	4	0
1	B	1103	0	0	0	0
2	A	26	0	0	1	0
2	B	26	0	0	0	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
4	A	57	0	0	1	0
4	B	54	0	0	0	0
All	All	2366	0	0	4	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 2.

All (4) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:1260:PHE:O	1:A:1343:SER:CB	2.61	0.48
1:A:1282:GLU:O	1:A:1314:SER:N	2.52	0.42
1:A:1223:GLN:NE2	2:A:2345:GAL:O2	2.53	0.42
1:A:1288:ARG:NH2	4:A:2044:HOH:O	2.55	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	142/161 (88%)	130 (92%)	12 (8%)	0	100	100
1	B	144/161 (89%)	134 (93%)	8 (6%)	2 (1%)	16	49
All	All	286/322 (89%)	264 (92%)	20 (7%)	2 (1%)	30	69

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1205	SER
1	B	1299	GLU

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	120/135 (89%)	118 (98%)	2 (2%)	73	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	122/135 (90%)	119 (98%)	3 (2%)	60	90
All	All	242/270 (90%)	237 (98%)	5 (2%)	66	93

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1296	SER
1	A	1331	GLN
1	B	1207	ASN
1	B	1216	ASN
1	B	1280	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 5.3.3 RNA ⓘ

There are no RNA chains in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates ⓘ

4 carbohydrates are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	NDG	A	2344	2	12,14,15	0.73	0	15,19,21	1.62	4 (26%)
2	GAL	A	2345	2	12,12,12	0.78	0	17,17,17	0.92	1 (5%)
2	NDG	B	2346	2	12,14,15	0.66	0	15,19,21	1.30	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	GAL	B	2347	2	12,12,12	0.82	0	17,17,17	1.11	2 (11%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NDG	A	2344	2	-	0/6/23/26	0/1/1/1
2	GAL	A	2345	2	-	0/2/22/22	0/1/1/1
2	NDG	B	2346	2	-	0/6/23/26	0/1/1/1
2	GAL	B	2347	2	-	0/2/22/22	0/1/1/1

There are no bond length outliers.

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2344	NDG	O-C5-C4	3.69	115.34	110.65
2	B	2346	NDG	O-C5-C6	3.35	110.50	106.98
2	B	2347	GAL	C3-C4-C5	-3.16	104.56	110.20
2	A	2344	NDG	C6-C5-C4	-2.70	106.47	113.00
2	B	2347	GAL	O5-C5-C4	2.31	114.04	109.76

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.6 Ligand geometry ⓘ

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	144/161 (89%)	0.65	14 (9%) 8 7	16, 22, 33, 36	0
1	B	144/161 (89%)	0.36	2 (1%) 72 72	17, 19, 23, 24	0
All	All	288/322 (89%)	0.50	16 (5%) 25 23	16, 20, 30, 36	0

The worst 5 of 16 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1205	SER	4.6
1	B	1207	ASN	3.8
1	B	1223	GLN	3.8
1	A	1324	ALA	3.1
1	A	1244	ASN	3.0

### 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.3 Carbohydrates ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
2	NDG	A	2344	14/15	0.38	2.07	63,66,73,75	0
2	GAL	B	2347	12/12	0.29	1.84	27,33,37,41	0
2	NDG	B	2346	14/15	0.27	1.00	27,31,38,38	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
2	GAL	A	2345	12/12	0.29	0.01	63,68,78,87	0

## 6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	CA	B	2344	1/1	0.17	-0.81	11,11,11,11	0
3	CA	B	2345	1/1	0.09	-2.61	26,26,26,26	0
3	CA	A	2346	1/1	0.06	-3.02	24,24,24,24	0

## 6.5 Other polymers

There are no such residues in this entry.