



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 21, 2024 – 12:36 PM EDT

PDB ID : 9BS5
Title : Bacteroides ovatus GH97C Sus
Authors : Brown, H.A.; Koropatkin, N.M.
Deposited on : 2024-05-13
Resolution : 1.46 Å(reported)

This is a wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

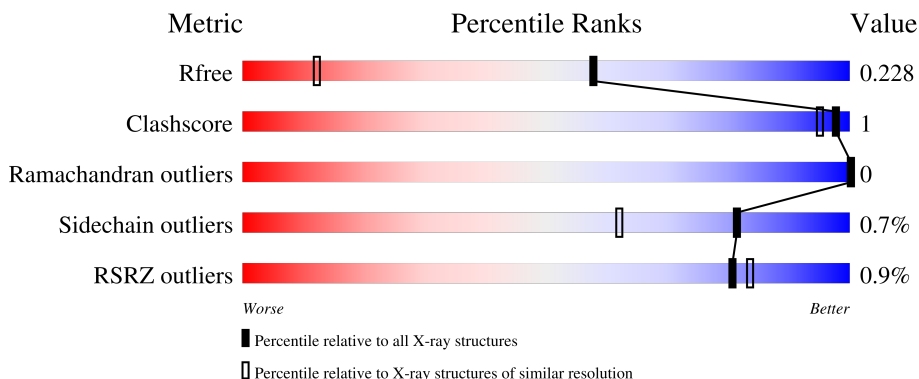
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.46 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}	164625	1556 (1.46-1.46)
Clashscore	180529	1653 (1.46-1.46)
Ramachandran outliers	177936	1635 (1.46-1.46)
Sidechain outliers	177891	1635 (1.46-1.46)
RSRZ outliers	164620	1556 (1.46-1.46)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	724	 92% • 5%
1	B	724	 93% • 5%
2	F	2	 100%
2	G	2	 50% 50%

2 Entry composition [i](#)

There are 9 unique types of molecules in this entry. The entry contains 12684 atoms, of which 0 are hydrogens and 0 are deuteriums.

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-glucosidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	686	Total	C	N	O	S	0	0	0
			5503	3505	924	1048	26			
1	B	691	Total	C	N	O	S	0	0	0
			5532	3522	931	1053	26			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	15	MET	-	initiating methionine	UNP A0A1Y4Q1A2
A	16	HIS	-	expression tag	UNP A0A1Y4Q1A2
A	17	HIS	-	expression tag	UNP A0A1Y4Q1A2
A	18	HIS	-	expression tag	UNP A0A1Y4Q1A2
A	19	HIS	-	expression tag	UNP A0A1Y4Q1A2
A	20	HIS	-	expression tag	UNP A0A1Y4Q1A2
A	21	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	15	MET	-	initiating methionine	UNP A0A1Y4Q1A2
B	16	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	17	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	18	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	19	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	20	HIS	-	expression tag	UNP A0A1Y4Q1A2
B	21	HIS	-	expression tag	UNP A0A1Y4Q1A2

- Molecule 2 is an oligosaccharide called 4,6-dideoxy-4- $\{[(1S,4R,5S,6S)-4,5,6\text{-trihydroxy-3-(hydroxymethyl)cyclohex-2-en-1-yl}]amino\}$ - α -D-glucopyranose-(1-4)- α -D-glucopyranose.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	F	2	Total	C	N	O	0	0	0
			33	19	1	13			
2	G	2	Total	C	N	O	0	0	0
			33	19	1	13			

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



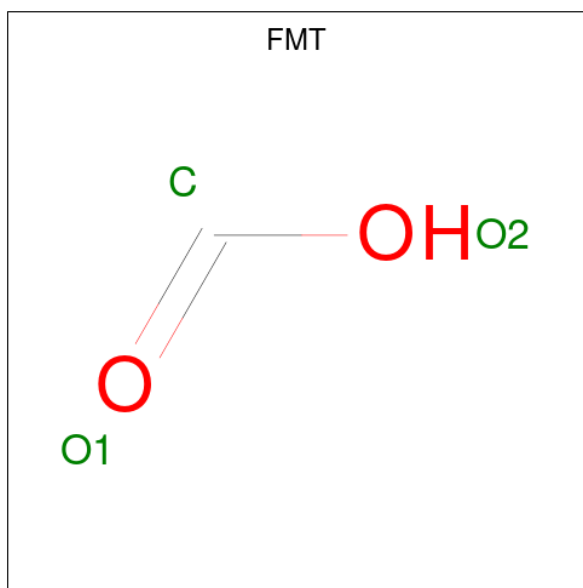
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 5 is FORMIC ACID (three-letter code: FMT) (formula: CH₂O₂).



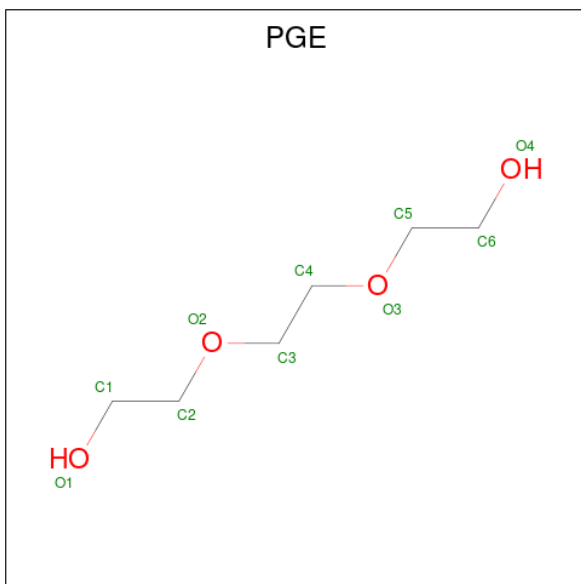
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			3	1	2		
5	A	1	Total	C	O	0	0
			3	1	2		
5	A	1	Total	C	O	0	0
			3	1	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			3	1	2		

- Molecule 6 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			10	6	4		
6	B	1	Total	C	O	0	0
			10	6	4		

- Molecule 7 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

- Molecule 8 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	1	Total	Na	0	0
			1	1		
8	B	1	Total	Na	0	0
			1	1		

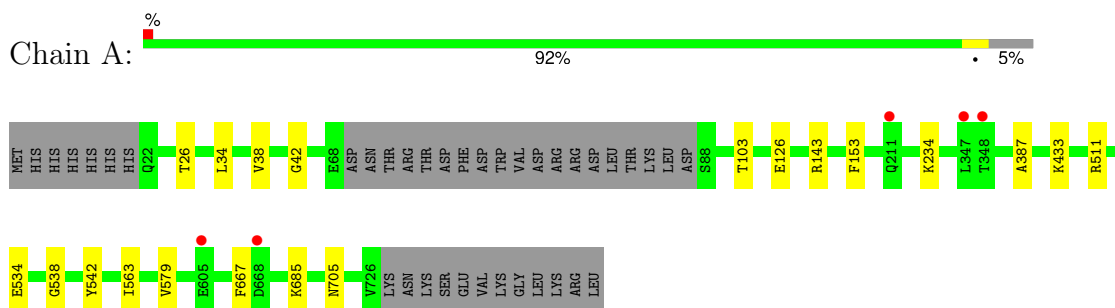
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	760	Total 760	O 760	0	0
9	B	732	Total 732	O 732	0	0

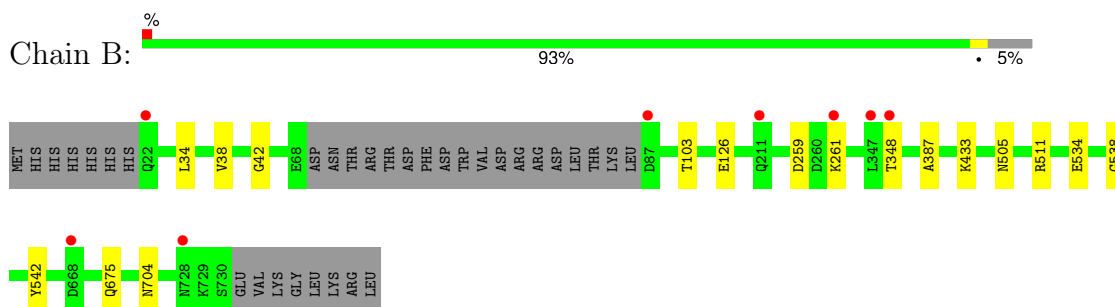
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes 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-glucosidase



- Molecule 1: Alpha-glucosidase



- Molecule 2: 4,6-dideoxy-4- $\{[(1S,4R,5S,6S)-4,5,6\text{-trihydroxy-3-(hydroxymethyl)cyclohex-2-en-1-yl}\}\text{amino}\}$ - α -D-glucopyranose-(1-4)- α -D-glucopyranose



- Molecule 2: 4,6-dideoxy-4- $\{[(1S,4R,5S,6S)-4,5,6\text{-trihydroxy-3-(hydroxymethyl)cyclohex-2-en-1-yl}\}\text{amino}\}$ - α -D-glucopyranose-(1-4)- α -D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	107.86Å 116.53Å 144.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	51.26 – 1.46 51.26 – 1.46	Depositor EDS
% Data completeness (in resolution range)	100.0 (51.26-1.46) 100.0 (51.26-1.46)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.68 (at 1.46Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.204 , 0.224 0.208 , 0.228	Depositor DCC
R_{free} test set	15899 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	7.7	Xtrriage
Anisotropy	1.752	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	12684	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 53.65 % 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 4.0915e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AC1, FMT, NA, CA, EDO, PEG, GLC, PGE

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	0.62	0/5648	0.70	0/7665
1	B	0.62	0/5677	0.70	0/7704
All	All	0.62	0/11325	0.70	0/15369

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-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 hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5503	0	5287	9	0
1	B	5532	0	5311	7	0
2	F	33	0	20	0	0
2	G	33	0	20	0	0
3	A	20	0	30	0	0
3	B	28	0	42	0	0
4	A	7	0	10	0	0
5	A	12	0	4	0	0
6	A	10	0	14	0	0
6	B	10	0	14	0	0
7	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	B	1	0	0	0	0
8	A	1	0	0	0	0
8	B	1	0	0	0	0
9	A	760	0	0	2	0
9	B	732	0	0	1	0
All	All	12684	0	10752	16	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

The worst 5 of 16 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:ALA:HA	1:B:433:LYS:O	2.13	0.49
1:B:103:THR:HA	1:B:126:GLU:O	2.14	0.48
1:A:387:ALA:HA	1:A:433:LYS:O	2.14	0.47
1:A:38:VAL:CG1	1:A:42:GLY:HA2	2.44	0.47
1:B:38:VAL:CG1	1:B:42:GLY:HA2	2.45	0.46

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	682/724 (94%)	662 (97%)	20 (3%)	0	100	100
1	B	687/724 (95%)	666 (97%)	21 (3%)	0	100	100
All	All	1369/1448 (94%)	1328 (97%)	41 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	585/622 (94%)	581 (99%)	4 (1%)	81	62
1	B	587/622 (94%)	583 (99%)	4 (1%)	81	62
All	All	1172/1244 (94%)	1164 (99%)	8 (1%)	81	62

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	542	TYR
1	B	511	ARG
1	B	34	LEU
1	A	685	LYS
1	B	348	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	262	ASN
1	B	567	HIS
1	B	675	GLN
1	A	606	ASN
1	A	102	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates i

4 monosaccharides 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	GLC	F	1	2	12,12,12	0.47	0	17,17,17	1.23	1 (5%)
2	AC1	F	2	7,2	21,22,23	0.45	0	22,32,34	0.81	1 (4%)
2	GLC	G	1	2	12,12,12	0.46	0	17,17,17	1.08	1 (5%)
2	AC1	G	2	7,2	21,22,23	0.43	0	22,32,34	0.66	0

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	GLC	F	1	2	-	0/2/22/22	0/1/1/1
2	AC1	F	2	7,2	-	3/6/43/46	0/2/2/2
2	GLC	G	1	2	-	0/2/22/22	0/1/1/1
2	AC1	G	2	7,2	-	3/6/43/46	0/2/2/2

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	1	GLC	C1-C2-C3	2.46	115.37	110.36
2	G	1	GLC	C1-C2-C3	2.41	115.26	110.36
2	F	2	AC1	C7B-C1B-N4A	2.19	113.90	110.68

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	G	2	AC1	C3-C4-N4A-C1B

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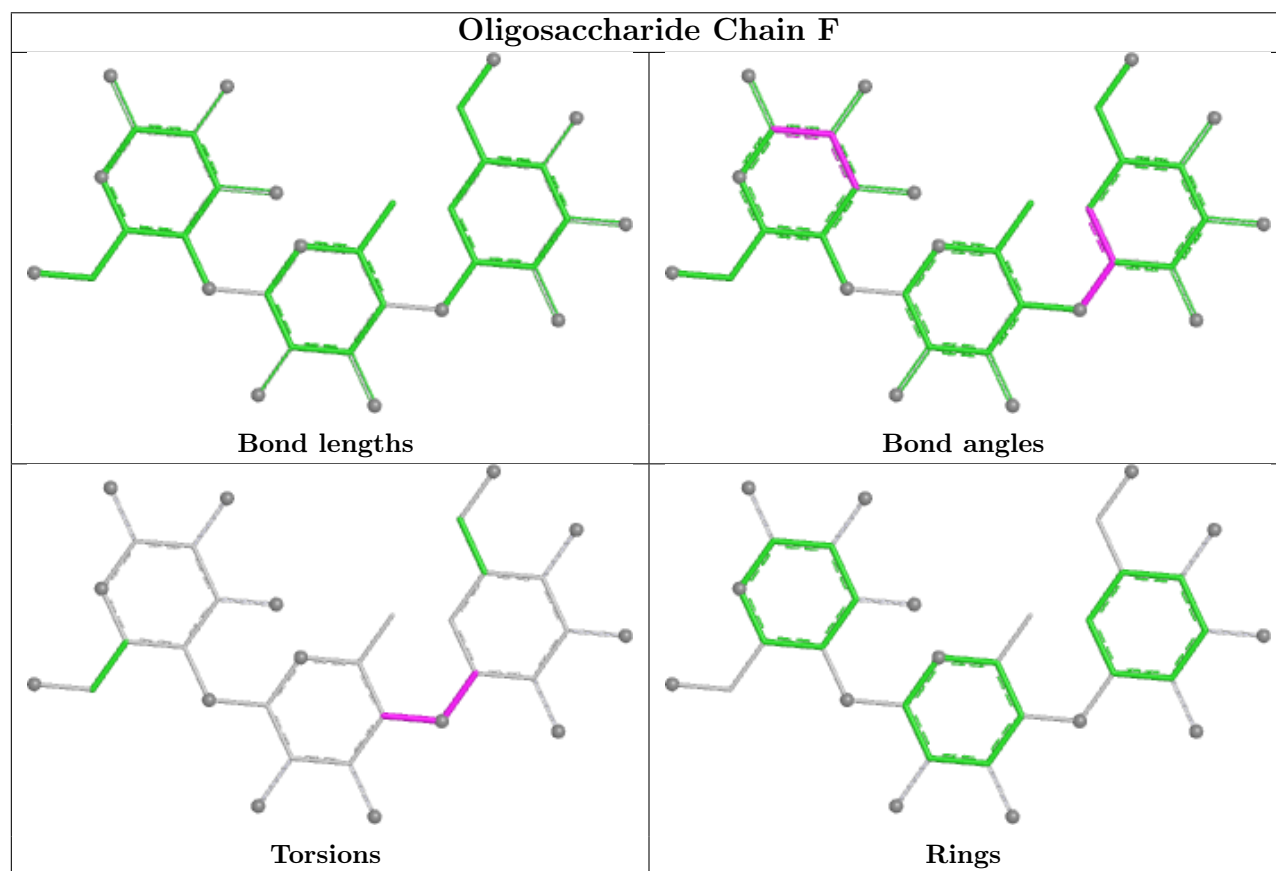
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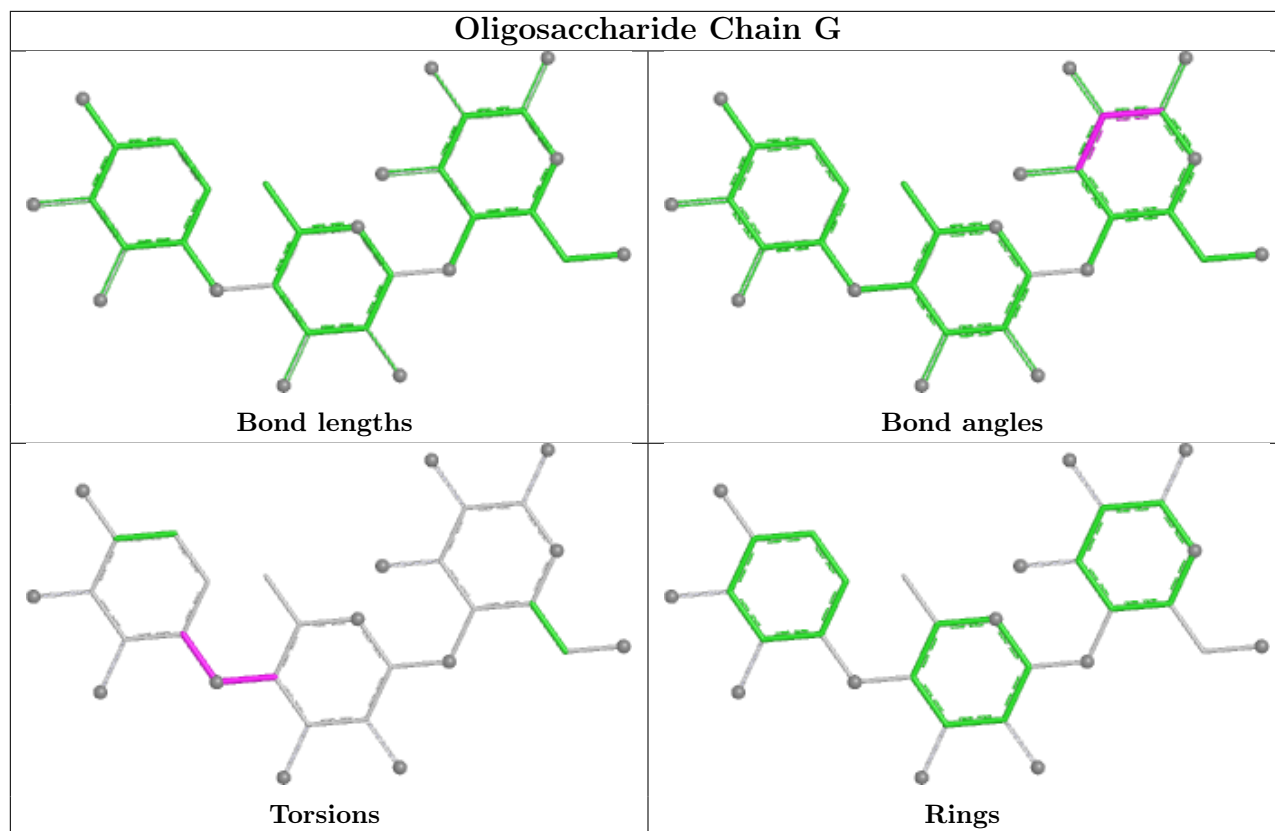
Mol	Chain	Res	Type	Atoms
2	G	2	AC1	C5-C4-N4A-C1B
2	F	2	AC1	C5-C4-N4A-C1B
2	F	2	AC1	C7B-C1B-N4A-C4
2	G	2	AC1	C7B-C1B-N4A-C4

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.





5.6 Ligand geometry [i](#)

Of 23 ligands modelled in this entry, 4 are monoatomic - leaving 19 for Mogul analysis.

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	$\# Z > 2$
5	FMT	A	807	-	2,2,2	0.25	0	1,1,1	0.17	0
3	EDO	A	801	-	3,3,3	0.08	0	2,2,2	0.24	0
3	EDO	B	805	-	3,3,3	0.09	0	2,2,2	0.22	0
3	EDO	A	803	-	3,3,3	0.10	0	2,2,2	0.39	0
3	EDO	A	810	-	3,3,3	0.05	0	2,2,2	0.08	0
6	PGE	A	806	-	9,9,9	0.12	0	8,8,8	0.10	0
3	EDO	B	807	-	3,3,3	0.11	0	2,2,2	0.29	0
5	FMT	A	811	-	2,2,2	0.27	0	1,1,1	0.14	0
5	FMT	A	805	-	2,2,2	0.28	0	1,1,1	0.14	0
6	PGE	B	802	-	9,9,9	0.13	0	8,8,8	0.10	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	B	803	-	3,3,3	0.10	0	2,2,2	0.23	0
3	EDO	B	808	-	3,3,3	0.10	0	2,2,2	0.17	0
3	EDO	B	806	-	3,3,3	0.03	0	2,2,2	0.09	0
3	EDO	B	804	-	3,3,3	0.03	0	2,2,2	0.08	0
3	EDO	B	801	-	3,3,3	0.11	0	2,2,2	0.45	0
3	EDO	A	802	-	3,3,3	0.05	0	2,2,2	0.17	0
5	FMT	A	809	-	2,2,2	0.28	0	1,1,1	0.15	0
3	EDO	A	808	-	3,3,3	0.09	0	2,2,2	0.18	0
4	PEG	A	804	-	6,6,6	0.13	0	5,5,5	0.12	0

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
3	EDO	B	808	-	-	0/1/1/1	-
3	EDO	A	801	-	-	0/1/1/1	-
3	EDO	A	802	-	-	0/1/1/1	-
3	EDO	B	806	-	-	1/1/1/1	-
6	PGE	B	802	-	-	1/7/7/7	-
3	EDO	A	808	-	-	0/1/1/1	-
3	EDO	B	804	-	-	0/1/1/1	-
3	EDO	B	805	-	-	0/1/1/1	-
3	EDO	A	803	-	-	0/1/1/1	-
3	EDO	A	810	-	-	0/1/1/1	-
3	EDO	B	803	-	-	0/1/1/1	-
4	PEG	A	804	-	-	1/4/4/4	-
3	EDO	B	801	-	-	0/1/1/1	-
6	PGE	A	806	-	-	1/7/7/7	-
3	EDO	B	807	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	804	PEG	O1-C1-C2-O2
3	B	807	EDO	O1-C1-C2-O2
6	B	802	PGE	O3-C5-C6-O4

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Mol	Chain	Res	Type	Atoms
6	A	806	PGE	C1-C2-O2-C3
3	B	806	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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, 95th 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 ²)	Q<0.9
1	A	686/724 (94%)	-0.42	5 (0%) 84 86	9, 14, 23, 38	0
1	B	691/724 (95%)	-0.36	8 (1%) 76 78	9, 14, 25, 42	0
All	All	1377/1448 (95%)	-0.39	13 (0%) 81 83	9, 14, 24, 42	0

The worst 5 of 13 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	348	THR	4.9
1	A	348	THR	4.0
1	B	261	LYS	3.5
1	A	668	ASP	3.5
1	B	728	ASN	3.2

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

SUGAR-RSR INFOmissingINFO

6.4 Ligands [i](#)

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. The B-factors column lists the minimum, median, 95th 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	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	FMT	A	805	3/3	0.87	0.12	36,36,38,38	0
5	FMT	A	807	3/3	0.88	0.11	45,45,45,45	0
3	EDO	B	804	4/4	0.90	0.13	32,32,33,39	0
3	EDO	B	806	4/4	0.90	0.12	31,31,32,33	0
5	FMT	A	809	3/3	0.91	0.10	36,36,38,39	0
6	PGE	B	802	10/10	0.93	0.10	28,29,32,34	0
6	PGE	A	806	10/10	0.94	0.09	26,28,35,40	0
5	FMT	A	811	3/3	0.94	0.08	40,40,41,41	0
8	NA	B	810	1/1	0.94	0.10	31,31,31,31	0
3	EDO	A	802	4/4	0.95	0.08	26,26,26,32	0
3	EDO	B	807	4/4	0.95	0.10	22,26,28,29	0
3	EDO	B	805	4/4	0.95	0.09	22,25,27,31	0
4	PEG	A	804	7/7	0.96	0.08	24,24,29,32	0
8	NA	A	813	1/1	0.96	0.06	27,27,27,27	0
3	EDO	A	810	4/4	0.96	0.10	24,25,27,28	0
3	EDO	B	803	4/4	0.97	0.06	17,17,18,18	0
3	EDO	A	803	4/4	0.97	0.05	18,19,20,20	0
3	EDO	B	801	4/4	0.98	0.06	17,18,18,19	0
3	EDO	A	808	4/4	0.98	0.05	15,17,17,19	0
3	EDO	B	808	4/4	0.98	0.05	16,17,18,19	0
3	EDO	A	801	4/4	0.99	0.04	16,18,18,18	0
7	CA	A	812	1/1	1.00	0.02	13,13,13,13	0
7	CA	B	809	1/1	1.00	0.03	13,13,13,13	0

6.5 Other polymers [i](#)

There are no such residues in this entry.