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The following ALERTS were generated. Each ALERT has the format

**test-name\_ALERT\_alert-type\_alert-level.**

Click on the hyperlinks for more details of the test.

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#### Alert level B

PLAT241_ALERT_2_B	High	'MainMol' Ueq as Compared to Neighbors of	01A	Check
PLAT910_ALERT_3_B	Missing	# of FCF Reflection(s) Below Theta(Min).	12	Note

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#### Alert level C

PLAT026_ALERT_3_C	Ratio Observed / Unique Reflections (too) Low ..	48%	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	01	Check
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	S2	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C6	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C5A	Check
PLAT340_ALERT_3_C	Low Bond Precision on C-C Bonds .....	0.0045	Ang.
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance ...	-2.412	Report
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	30	Report

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#### Alert level G

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	9	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	6	Report
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !	
PLAT300_ALERT_4_G	Atom Site Occupancy of S1	Constrained at	0.8 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of S1C	Constrained at	0.2 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O3	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O3C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7	Constrained at	0.8 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C10	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C10C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C7C	Constrained at	0.2 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1CA	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7A	Constrained at	0.8 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1CB	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1CC	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10C	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10G	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10H	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10I	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H7CA	Constrained at	0.2 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O3A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of O3B	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1A	Constrained at	0.5 Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C1B	Constrained at	0.5 Check

PLAT300_ALERT_4_G	Atom Site Occupancy of C3A	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C3B	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C10A	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C10B	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1AA	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1AB	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1AC	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1BA	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10D	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10E	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10F	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10J	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10K	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H10L	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1BB	Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H1BC	Constrained at	0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1 )		43%	Note
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 2 )		29%	Note
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O1		29.3	Degree
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O3C		106.7	Degree
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for O1A		32.7	Degree
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....		13	Note
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		29.40	Deg.
	C3 -O1 -C3C 1_555 1_555 1_555 ..... #		3	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		28.90	Deg.
	C3 -C2 -C3C 1_555 1_555 1_555 ..... #		9	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		7.20	Deg.
	C7 -C6 -S1C 1_555 1_555 1_555 ..... #		19	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		11.40	Deg.
	C7C -C6 -S1 1_555 1_555 1_555 ..... #		23	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		10.90	Deg.
	C7 -C8 -S1C 1_555 1_555 1_555 ..... #		28	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		12.40	Deg.
	C7C -C9 -S1 1_555 1_555 1_555 ..... #		34	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		31.90	Deg.
	C3A -C2A -C3B 1_555 1_555 1_555 ..... #		53	Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...		32.70	Deg.
	C3B -O1A -C3A 1_555 1_555 1_555 ..... #		56	Check
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms ....		!	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		42	Note
PLAT899_ALERT_4_G	SHELXL-97 is Deprecated and Succeeded by SHELXL		2019/3	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600		98	Note
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		0	Info
PLAT992_ALERT_5_G	Repd & Actual _reflns_number_gt Values Differ by		2	Check

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0 **ALERT level A** = Most likely a serious problem - resolve or explain  
 2 **ALERT level B** = A potentially serious problem, consider carefully  
 8 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 69 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 11 ALERT type 2 Indicator that the structure model may be wrong or deficient  
 8 ALERT type 3 Indicator that the structure quality may be low  
 57 ALERT type 4 Improvement, methodology, query or suggestion  
 3 ALERT type 5 Informative message, check

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It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special\_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

### **Publication of your CIF in IUCr journals**

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

### **Publication of your CIF in other journals**

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

