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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**

PLAT112_ALERT_2_B	ADDSYM Detects New (Pseudo) Symm. Elem	I	98 %Fit
PLAT910_ALERT_3_B	Missing # of FCF Reflection(s) Below Theta(Min).		18 Note

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 **Alert level C**

PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula Strings Differ		Please Check
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.8 Note
PLAT250_ALERT_2_C	Large U3/U1 Ratio for Average U(i,j) Tensor ....		2.5 Note
PLAT906_ALERT_3_C	Large K Value in the Analysis of Variance .....		7.536 Check
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600		10 Report
PLAT913_ALERT_3_C	Missing # of Very Strong Reflections in FCF ....		6 Note
PLAT934_ALERT_3_C	Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers ..		1 Check
PLAT975_ALERT_2_C	Check Calcd Resid. Dens. 0.90Ang From O64 .		0.55 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens. 0.68Ang From O64 .		-0.49 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens. 0.52Ang From O64 .		-0.49 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens. 0.59Ang From O65 .		-0.43 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens. 0.68Ang From O64 .		-0.43 eA-3
PLAT976_ALERT_2_C	Check Calcd Resid. Dens. 0.53Ang From O66 .		-0.41 eA-3
PLAT992_ALERT_5_C	Repd & Actual _reflns_number_gt Values Differ by		18 Check

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 **Alert level G**

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite		1 Note
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms .....		22 Report
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...		0.500 Check
PLAT066_ALERT_1_G	Predicted and Reported Tmin&Tmax Range Identical		? Check
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records		1 Report
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. # B5 H4 O10		4 Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. # H2 O		5 Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. # H2 O		6 Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. # H2 O		7 Note
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. # H2 O		9 Note
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....		1 Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600		112 Note
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File		9 Note
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity .....		3.9 Low
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		2 Info

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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

14 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight

16 **ALERT level G** = General information/check it is not something unexpected

4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
12 ALERT type 2 Indicator that the structure model may be wrong or deficient  
7 ALERT type 3 Indicator that the structure quality may be low  
7 ALERT type 4 Improvement, methodology, query or suggestion  
2 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.

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**PLATON version of 06/07/2023; check.def file version of 30/06/2023**

