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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 C

ABSTY02\_ALERT\_1\_C An \_exptl\_absorpt\_correction\_type has been given without  
a literature citation. This should be contained in the  
\_exptl\_absorpt\_process\_details field.

Absorption correction given as Numerical Mu From Formula

PLAT090\_ALERT\_3\_C Poor Data / Parameter Ratio (Zmax > 18) ..... 7.78 Note

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### Alert level G

ABSTY01\_ALERT\_1\_G Extra text has been found in the \_exptl\_absorpt\_correction\_type  
field, which should be only a single keyword. A literature  
citation should be included in the \_exptl\_absorpt\_process\_details  
field.

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3	Info
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	5.53	Why ?
PLAT112_ALERT_2_G	ADDSYM Detects New (Pseudo) Symm. Elem	20	86 %Fit
PLAT113_ALERT_2_G	ADDSYM Suggests Possible Pseudo/New Space Group	P-6m2	Check
	Check Model Parameter Symmetry for Reflection Data Support		
PLAT794_ALERT_5_G	Tentative Bond Valency for La1 (III)	.	2.53 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for La2 (III)	.	2.32 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for La3 (III)	.	2.49 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Ga1 (III)	.	2.95 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Ga2 (III)	.	2.91 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Ga3 (III)	.	2.92 Info
PLAT870_ALERT_4_G	ALERTS Related to Twinning Effects Suppressed ..		! Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .		Please Do !
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).	1	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF ....	1	Note
PLAT916_ALERT_2_G	Hoof t y and Flack x Parameter Values Differ by .	0.13	Check
PLAT931_ALERT_5_G	CIFcalcFCF Twin Law ( 1 0 0)	Est.d BASF	0.57 Check

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0 **ALERT level A** = Most likely a serious problem - resolve or explain

0 **ALERT level B** = A potentially serious problem, consider carefully

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

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

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

4 ALERT type 2 Indicator that the structure model may be wrong or deficient

3 ALERT type 3 Indicator that the structure quality may be low

1 ALERT type 4 Improvement, methodology, query or suggestion

8 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.

