

# checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found.      CIF dictionary      Interpreting this report

## Datablock: md482\_mc145y

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Bond precision:    C-C = 0.0025 A

Wavelength=0.71073

Cell:                    a=15.7258(15)

b=7.9668(8)

c=16.0813(14)

alpha=90

beta=90

gamma=90

Temperature:          293 K

	Calculated	Reported
Volume	2014.7(3)	2014.7(3)
Space group	P b c n	P b c n
Hall group	-P 2n 2ab	-P 2n 2ab
Moiety formula	C23 H30 N2	C23 H30 N2
Sum formula	C23 H30 N2	C23 H30 N2
Mr	334.49	334.49
Dx,g cm-3	1.103	1.103
Z	4	4
Mu (mm-1)	0.064	0.064
F000	728.0	728.0
F000'	728.23	
h,k,lmax	19,10,20	19,10,20
Nref	2084	2080
Tmin,Tmax	0.959,0.973	0.880,1.000
Tmin'	0.940	

Correction method= # Reported T Limits: Tmin=0.880 Tmax=1.000

AbsCorr = MULTI-SCAN

Data completeness= 0.998

Theta(max)= 26.496

R(reflections)= 0.0552( 1527)

wR2(reflections)= 0.1570( 2080)

S = 1.018

Npar= 124

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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 G

PLAT012_ALERT_1_G	No	_shelx_res_checksum Found in CIF .....	Please Check
PLAT063_ALERT_4_G	Crystal Size Likely too Large for Beam Size ....	0.97 mm	
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature .....	293 (K)	Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature .....	293 (K)	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of C2A	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 H2AA	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H2AB	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H2A	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H2B	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H3A	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H3B	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H13A	Constrained at 0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of H13B	Constrained at 0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....	(Resd 1 )	8% Note
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels .....	2	Note
PLAT789_ALERT_4_G	Atoms with Negative _atom_site_disorder_group #	9	Check
PLAT860_ALERT_3_G	Number of Least-Squares Restraints .....	2	Note

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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  
0 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
19 **ALERT level G** = General information/check it is not something unexpected

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
0 ALERT type 2 Indicator that the structure model may be wrong or deficient  
2 ALERT type 3 Indicator that the structure quality may be low  
14 ALERT type 4 Improvement, methodology, query or suggestion  
0 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.

