

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: I

Bond precision:	= 0.0000 A	Wavelength=0.41066	
Cell:	a=6.8512 (8)	b=6.8512 (8)	c=6.1744 (7)
	alpha=90	beta=90	gamma=90
Temperature:	293 K		
	Calculated	Reported	
Volume	289.82 (8)	289.70 (4)	
Space group	I 41/a m d:	I 41/a m d	
Hall group	I 4bw 2bw -	-I 4bd;-2	
Moiety formula	As3.34 Dy0.29 Er0.15 Gd0.16		
	Ho0.14 Lu0.06 O16 P0.66 Y3 ?		
	Yb0.10		
Sum formula	As3.34 Dy0.29 Er0.15 Gd0.16 O4	As0.82 P0.17 Y0.76	
	Ho0.14 Lu0.06 O16 P0.66 Y3	Gd0.04 Er0.04 Ho0.03 Dy0.07	
	Yb0.10	Yb0.04 Lu0.02	
Mr	943.43	238.00	
Dx, g cm ⁻³	5.405	5.457	
Z	1	4	
Mu (mm ⁻¹)	7.115	7.310	
F000	426.1	426.0	
F000'	427.02		
h, k, lmax	11, 11, 10	3, 11, 10	
Nref	189	98	
Tmin, Tmax			
Tmin'			

Correction method= Not given

Data completeness= 0.519 Theta(max)= 19.570

R(reflections)= 0.0248(90)

wR2(reflections)=

wR= 0.0380(98)

S = 2.360

Npar= 11

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.

Alert level A

EXPT005_ALERT_1_A _exptl_crystal_description is missing

Crystal habit description.

The following tests will not be performed.

CRYSR_01

PLAT027_ALERT_3_A _diffrn_reflns_theta_full value (too) Low	7.69 Degree
PLAT029_ALERT_3_A _diffrn_measured_fraction_theta_full value Low .	0.850 Why?
PLAT150_ALERT_1_A Volume as Calculated Differs from that Given ...	289.70 Ang-3
PLAT183_ALERT_1_A Missing _cell_measurement_reflms_used Value	Please Do !
PLAT184_ALERT_1_A Missing _cell_measurement_theta_min Value	Please Do !
PLAT185_ALERT_1_A Missing _cell_measurement_theta_max Value	Please Do !
PLAT699_ALERT_1_A Missing _exptl_crystal_description Value	Please Do !

Alert level C

GOODF01_ALERT_2_C The least squares goodness of fit parameter lies outside the range 0.80 <> 2.00

Goodness of fit given = 2.360

PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ Please Check

Calc: As0.83 Dy0.07 Er0.04 Gd0.04 Ho0.03 Lu0.02 O4 P0.17 Y0.75 Yb0

Rep.: O4 As0.82 P0.17 Y0.76 Gd0.04 Er0.04 Ho0.03 Dy0

.07 Yb0.04 Lu0.02

PLAT043_ALERT_1_C Calculated and Reported Mol. Weight Differ by .. 8.57 Check

PLAT051_ALERT_1_C Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by . 2.66 %

PLAT052_ALERT_1_C Info on Absorption Correction Method Not Given Please Do !

PLAT053_ALERT_1_C Minimum Crystal Dimension Missing (or Error) ... Please Check

PLAT054_ALERT_1_C Medium Crystal Dimension Missing (or Error) ... Please Check

PLAT055_ALERT_1_C Maximum Crystal Dimension Missing (or Error) ... Please Check

PLAT077_ALERT_4_C Unitcell Contains Non-integer Number of Atoms .. Please Check

PLAT127_ALERT_1_C Implicit Hall Symbol Inconsistent with Explicit -I 4bd;-2 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -Y 1_555 3_545 # 1 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -Y 1_555 3_555 # 2 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -Y 1_555 19_454 # 3 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -Y 1_555 19_554 # 4 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -HO 1_555 3_545 # 18 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -HO 1_555 3_555 # 19 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -HO 1_555 19_454 # 20 Check

PLAT701_ALERT_1_C Bond Calc 3.7573(4), Rep 3.75673(19), Dev.. 1.42 Sigma

Y -HO 1_555 19_554 # 21 Check

PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-GD	1_555	3_545	# 23 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-GD	1_555	3_555	# 24 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-GD	1_555	19_454	# 25 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-GD	1_555	19_554	# 26 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-ER	1_555	3_545	# 28 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-ER	1_555	3_555	# 29 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-ER	1_555	19_454	# 30 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-ER	1_555	19_554	# 31 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-DY	1_555	3_545	# 33 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-DY	1_555	3_555	# 34 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-DY	1_555	19_454	# 35 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-DY	1_555	19_554	# 36 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-YB	1_555	3_545	# 38 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-YB	1_555	3_555	# 39 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-YB	1_555	19_454	# 40 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-YB	1_555	19_554	# 41 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-LU	1_555	3_545	# 43 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-LU	1_555	3_555	# 44 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-LU	1_555	19_454	# 45 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
Y	-LU	1_555	19_554	# 46 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-HO	1_555	3_545	# 89 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-HO	1_555	3_555	# 90 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-HO	1_555	19_454	# 91 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-HO	1_555	19_554	# 92 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-GD	1_555	3_545	# 94 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-GD	1_555	3_555	# 95 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-GD	1_555	19_454	# 96 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
HO	-GD	1_555	19_554	# 97 Check
PLAT701_ALERT_1_C Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma

	HO	-ER		1_555	3_545	.....	#	99	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-ER		1_555	3_555	.....	#	100	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-ER		1_555	19_454	.....	#	101	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-ER		1_555	19_554	.....	#	102	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-DY		1_555	3_545	.....	#	104	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-DY		1_555	3_555	.....	#	105	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-DY		1_555	19_454	.....	#	106	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-DY		1_555	19_554	.....	#	107	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-YB		1_555	3_545	.....	#	109	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-YB		1_555	3_555	.....	#	110	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-YB		1_555	19_454	.....	#	111	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-YB		1_555	19_554	.....	#	112	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-LU		1_555	3_545	.....	#	114	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-LU		1_555	3_555	.....	#	115	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-LU		1_555	19_454	.....	#	116	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	HO	-LU		1_555	19_554	.....	#	117	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-GD		1_555	3_545	.....	#	118	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-GD		1_555	3_555	.....	#	119	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-GD		1_555	19_454	.....	#	120	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-GD		1_555	19_554	.....	#	121	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-ER		1_555	3_545	.....	#	123	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-ER		1_555	3_555	.....	#	124	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-ER		1_555	19_454	.....	#	125	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-ER		1_555	19_554	.....	#	126	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-DY		1_555	3_545	.....	#	128	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-DY		1_555	3_555	.....	#	129	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-DY		1_555	19_454	.....	#	130	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-DY		1_555	19_554	.....	#	131	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	GD	-YB		1_555	3_545	.....	#	133	Check

PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-YB	1_555	3_555	# 134 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-YB	1_555	19_454	# 135 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-YB	1_555	19_554	# 136 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-LU	1_555	3_545	# 138 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-LU	1_555	3_555	# 139 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-LU	1_555	19_454	# 140 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	GD	-LU	1_555	19_554	# 141 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-ER	1_555	3_545	# 142 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-ER	1_555	3_555	# 143 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-ER	1_555	19_454	# 144 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-ER	1_555	19_554	# 145 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-DY	1_555	3_545	# 147 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-DY	1_555	3_555	# 148 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-DY	1_555	19_454	# 149 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-DY	1_555	19_554	# 150 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-YB	1_555	3_545	# 152 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-YB	1_555	3_555	# 153 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-YB	1_555	19_454	# 154 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-YB	1_555	19_554	# 155 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-LU	1_555	3_545	# 157 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-LU	1_555	3_555	# 158 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-LU	1_555	19_454	# 159 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	ER	-LU	1_555	19_554	# 160 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	DY	-DY	1_555	3_545	# 161 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	DY	-DY	1_555	3_555	# 162 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	DY	-DY	1_555	19_454	# 163 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	DY	-DY	1_555	19_554	# 164 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma
	DY	-YB	1_555	3_545	# 166 Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4), Rep	3.75673(19), Dev..	1.42 Sigma

	DY	-YB		1_555	3_555	.....	#	167	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-YB		1_555	19_454	.....	#	168	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-YB		1_555	19_554	.....	#	169	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-LU		1_555	3_545	.....	#	171	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-LU		1_555	3_555	.....	#	172	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-LU		1_555	19_454	.....	#	173	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	DY	-LU		1_555	19_554	.....	#	174	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-YB		1_555	3_545	.....	#	175	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-YB		1_555	3_555	.....	#	176	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-YB		1_555	19_454	.....	#	177	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-YB		1_555	19_554	.....	#	178	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-LU		1_555	3_545	.....	#	180	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-LU		1_555	3_555	.....	#	181	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-LU		1_555	19_454	.....	#	182	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	YB	-LU		1_555	19_554	.....	#	183	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	LU	-LU		1_555	3_545	.....	#	184	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	LU	-LU		1_555	3_555	.....	#	185	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	LU	-LU		1_555	19_454	.....	#	186	Check
PLAT701_ALERT_1_C	Bond	Calc	3.7573(4),	Rep	3.75673(19),	Dev..			1.42 Sigma
	LU	-LU		1_555	19_554	.....	#	187	Check

● Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.
 Atom count from _chemical_formula_sum: As0.82 Dy.07 Er.04 Gd.04 Ho.03 L
 Atom count from the _atom_site data: As0.8349 Dy.0735 Er.0379 Gd.0393

ABSMU01_ALERT_1_G Calculation of _exptl_absorpt_correction_mu
 not performed for this radiation type.

CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
 CELLZ01_ALERT_1_G ALERT: check formula stoichiometry or atom site occupancies.
 From the CIF: _cell_formula_units_Z 4
 From the CIF: _chemical_formula_sum O4 As0.82 P0.17 Y0.76 Gd0.04 Er0.0
 TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
O	16.00	16.00	0.00
As	3.28	3.34	-0.06
P	0.68	0.66	0.02
Y	3.04	3.01	0.03

Gd	0.16	0.16	0.00	
Er	0.16	0.15	0.01	
Ho	0.12	0.14	-0.02	
Dy	0.28	0.29	-0.01	
Yb	0.16	0.10	0.06	
Lu	0.08	0.06	0.02	
PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension			3 Info
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF			Please Do !
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...		0.250	Check
PLAT092_ALERT_4_G	Check: Wavelength Given is not Cu,Ga,Mo,Ag,In Ka		0.41066	Ang.
PLAT120_ALERT_1_G	Reported I41/amd Inconsistent with Explicit		I41/amd	Check
PLAT152_ALERT_1_G	The Supplied and Calc. Volume s.u. Differ by ...		4	Units
PLAT199_ALERT_1_G	Reported _cell_measurement_temperature (K)		293	Check
PLAT200_ALERT_1_G	Reported _diffrn_ambient_temperature (K)		293	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Lu	Constrained at	0.0151	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Yb	Constrained at	0.0261	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Er	Constrained at	0.0379	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Ho	Constrained at	0.0348	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Dy	Constrained at	0.0735	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Gd	Constrained at	0.0393	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of Y	Constrained at	0.7517	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of As	Constrained at	0.8349	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of P	Constrained at	0.1651	Check
PLAT301_ALERT_3_G	Main Residue Disorder .....(Resd 1)		79%	Note
PLAT808_ALERT_5_G	No Parseable SHELXL Style Weighting Scheme Found			Please Check
PLAT811_ALERT_5_G	No ADDSYM Analysis: Too Many Excluded Atoms			! Info
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .			Please Do !
PLAT950_ALERT_5_G	Calculated (ThMax) and CIF-Reported Hmax Differ		8	Units
PLAT966_ALERT_5_G	Note: Non-Standard (i.e. 2.0) OMIT Threshold of		3.0	Sig(I)
PLAT984_ALERT_1_G	The As-f' = 0.2878	Deviates from the B&C-Value	0.2864	Check
PLAT984_ALERT_1_G	The Dy-f' = -0.6999	Deviates from the B&C-Value	-0.6916	Check
PLAT984_ALERT_1_G	The Er-f' = -0.6332	Deviates from the B&C-Value	-0.6207	Check
PLAT984_ALERT_1_G	The Gd-f' = -0.7802	Deviates from the B&C-Value	-0.7780	Check
PLAT984_ALERT_1_G	The Ho-f' = -0.6648	Deviates from the B&C-Value	-0.6545	Check
PLAT984_ALERT_1_G	The Lu-f' = -0.5571	Deviates from the B&C-Value	-0.5418	Check
PLAT984_ALERT_1_G	The Y-f' = 0.2097	Deviates from the B&C-Value	0.2116	Check
PLAT984_ALERT_1_G	The Yb-f' = -0.5804	Deviates from the B&C-Value	-0.5650	Check
PLAT985_ALERT_1_G	The As-f" = 0.7669	Deviates from the B&C-Value	0.7641	Check
PLAT985_ALERT_1_G	The Dy-f" = 1.7292	Deviates from the B&C-Value	1.7162	Check
PLAT985_ALERT_1_G	The Er-f" = 1.9570	Deviates from the B&C-Value	1.9421	Check
PLAT985_ALERT_1_G	The Gd-f" = 1.5225	Deviates from the B&C-Value	1.5097	Check
PLAT985_ALERT_1_G	The Ho-f" = 1.8406	Deviates from the B&C-Value	1.8265	Check
PLAT985_ALERT_1_G	The Lu-f" = 2.3386	Deviates from the B&C-Value	2.3193	Check
PLAT985_ALERT_1_G	The Yb-f" = 2.2053	Deviates from the B&C-Value	2.1884	Check

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

150 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 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
11 ALERT type 4 Improvement, methodology, query or suggestion
6 ALERT type 5 Informative message, check

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.

Datablock I - ellipsoid plot

