



# GeoPT

## Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

### Certificate of Performance



Subscriber: **GeoPT229**  
Round: **GeoPT56A**

Laboratory Code: **X62**

Test Material: **CFU-1**  
Date: **December 2024**

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO2	-0.62	2	23.51	23.14
TiO2	-0.71	2	0.2940	0.284
Al2O3	-0.26	2	4.880	4.84
Fe2O3T	-0.83	2	26.43	25.9
MnO	-0.7	2	0.1795	0.173
MgO	-0.23	2	0.6785	0.672
CaO	-0.77	2	20.06	19.66
Na2O	1.93	2	0.1450	0.16
K2O	-0.25	2	0.6450	0.638
P2O5	0.14	2	0.8940	0.899
LOI	2.83	2	21.62	23.16
			mg/kg	mg/kg
As	-0.78	2	104.3	97.8
Ba	-1.09	2	158.9	146
Be	-	2	3.110	
Bi	-	2	0.3100	
C(tot)	-	2	46000	
Cd	-	2	0.06949	
Ce	0.88	2	101.1	108.2
Co	-	2	27.00	
Cr	0.26	2	266.6	271.3
Cs	-	2	0.7490	
Cu	-	2	6.119	
Dy	-	2	9.130	
Er	-	2	4.700	
Eu	-	2	2.540	
Ga	-	2	6.477	
Gd	-	2	10.25	
Hf	-	2	4.395	
Ho	-	2	1.720	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
In	-	2	0.1202	
La	0.87	2	40.10	43.3
Li	-	2	23.23	
Lu	-	2	0.6200	
Mo	-	2	1.175	
Nb	-	2	6.876	
Nd	-	2	50.18	
Ni	-1.5	2	67.50	58.9
Pb	-1.51	2	24.45	20.8
Pr	-	2	12.46	
Rb	1.08	2	19.00	21.1
S	-	2	1288	
Sb	-	2	0.4600	
Sc	-	2	14.16	
Sm	-	2	11.15	
Sn	-	2	1.525	
Sr	-0.41	2	741.3	723.4
Ta	-	2	0.3200	
Tb	-	2	1.601	
Te	-	2	0.2620	
Th	-	2	15.10	
Tl	-	2	0.1080	
Tm	-	2	0.6900	
U	-	2	2.280	
V	0.13	2	322.2	325
W	-	2	1.540	
Y	0.62	2	42.51	44.9
Yb	-	2	4.414	
Zn	-0.08	2	177.3	176.3
Zr	-1.66	2	162.0	142

The principles upon which GeoPT z-scores are based are detailed in the full report for this round

- indicates result within acceptable range of z-score limits  $|z| < 2$

- indicates result outside z-score limits  $|z| > 2$  but within the z-score limits  $|z| < \text{or} = 3$

- indicates result outside z-score limits  $|z| > 3$  and likely to require investigation

Consensus values are assigned values unless otherwise indicated

Shaded Consensus values have provisional status

*Peter Webb* . Peter Webb - Administrator of GeoPT on behalf of the International Association of Geoanalysts