



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT229**
Round: **GeoPT57**

Laboratory Code: **Y42**

Test Material: **SAG-1**
Date: **June 2025**

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO2	-0.29	2	53.28	52.932
TiO2	-0.2	2	0.4340	0.43
Al2O3	0.04	2	8.821	8.832
Fe2O3T	-0.19	2	10.79	10.733
MnO	0.07	2	0.1464	0.147
MgO	-0.31	2	12.18	12.076
CaO	0.06	2	10.80	10.817
Na2O	0.17	2	2.000	2.012
K2O	0.97	2	0.09000	0.095
P2O5	-2.35	2	0.03897	0.033
			mg/kg	mg/kg
As	-		0.4899	
Ba	-		14.57	
Be	-		0.2028	
Bi	-		0.03660	
Cd	-		0.06100	
Ce	-		4.503	
Co	0.41	2	54.92	56.9
Cr	2.75	2	1057	1219.9
Cs	-		0.07000	
Cu	-		12.54	
Dy	-		2.045	
Er	-		1.303	
Eu	-		0.5146	
Ga	-		9.278	
Gd	-		1.594	
Ge	-		1.611	
Hf	-		0.8700	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
Ho	-		0.4400	
In	-		0.03692	
La	-		2.055	
Li	-		9.800	
Lu	-		0.1902	
Mo	-		0.2655	
Nb	-		1.454	
Nd	-		3.546	
Ni	2	2	214.0	244.6
Pb	-		1.304	
Pr	-		0.7280	
Rb	-		0.8025	
Sb	-		0.2210	
Sc	-		47.40	
Sm	-		1.195	
Sn	-		0.2600	
Sr	0.59	2	42.88	45.2
Ta	-		0.1094	
Tb	-		0.3000	
Th	-		0.5000	
Tm	-		0.1960	
U	-		0.1206	
V	1.63	2	215.1	240.1
W	-		0.6000	
Y	0.91	2	11.72	12.9
Yb	-		1.275	
Zn	0.34	2	42.09	43.4
Zr	-0.27	2	29.35	28.6

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