



Consensus values from interlaboratory assay
 IGLsy-2



Date	02-20-2006
Certification process	First stage finished
Batch number	IGLsy-2/split
Availability	In glass bottles of 25g of powder
Supplier	LFRX-IGLUNAM Ciudad Universitaria 04510 México, D. F.
Country:	MEXICO
Description	Egirine/augite syenite form San Carlos, Tamaulipas, México
Statement of intended use	

Component	Unit	Mean	sd	N	RSD %	Analytical technique	Quality value	Ku	Sk
SiO ₂	%	57.82	0.28	15	0.49	1	cve	-0.32	-0.61
TiO ₂	%	0.97	0.02	18	1.98	1,2,3	cve	0.03	0.49
Al ₂ O ₃	%	19.82	0.16	17	0.79	1	rv	0.07	-0.58
Fe ₂ O _{3t}	%	3.82	0.09	19	2.23	1,2	cve	-0.01	-0.06
MnO	%	0.23	0.01	18	4.75	1,2	cve	3.15	1.81
MgO	%	0.54	0.03	13	4.92	1	rv	0.65	0.17
CaO	%	2.34	0.04	19	1.59	1,2	cve	-0.43	-0.44
Na ₂ O	%	7.60	0.13	22	1.77	1,2	cve	1.28	0.30
K ₂ O	%	5.44	0.15	19	2.78	1,2	rv	13.30	3.41
P ₂ O ₅	%	0.11	0.01	16	7.46	1	rv	0.29	-0.39
LOI	%	0.87	0.09	16	9.92	4	rv	-0.73	0.53
Ba	µg/g	2404.63	41.12	20	1.71	1,2,3	cve	-0.85	0.29
Ce	µg/g	213.49	8.19	14	3.84	1,2,3	cve	-0.09	1.09
Co	µg/g	4.52	0.52	13	11.56	1,2,3	rv	0.48	1.03
Cr	µg/g	2.60	0.41	6	15.64	1,2	rv	-1.83	0.57
Cs	µg/g	2.10	0.06	11	3.05	2,3	cve	-1.44	0.22
Cu	µg/g	7.49	1.21	9	16.11	1,2	rv	-0.11	0.82
Dy	µg/g	5.41	0.39	12	7.21	2,3	cve	-1.54	0.03
Er	µg/g	3.18	0.18	10	5.59	3	rv	-0.84	-0.34
Eu	µg/g	2.44	0.24	15	9.94	2,3	rv	-1.63	-0.13
Ga	µg/g	21.26	1.41	8	6.64	2,3	rv	-0.63	-0.34
Gd	µg/g	6.74	0.94	9	13.98	2,3	rv	-1.76	0.36
Hf	µg/g	10.16	0.55	13	5.37	2,3	rv	1.20	-0.65
Ho	µg/g	1.08	0.06	10	5.67	3	rv	-0.62	0.41
La	µg/g	127.69	2.21	13	1.73	1,2,3	cve	1.21	1.38
Lu	µg/g	0.46	0.03	13	5.98	2,3	cve	-1.06	-0.32
Nb	µg/g	212.46	10.27	13	4.83	1,3	cve	-0.97	-0.15
Nd	µg/g	64.86	4.19	11	6.46	3	rv	0.00	0.64
Pb	µg/g	12.82	0.76	8	5.93	1,2,3	rv	-0.58	-0.10
Pr	µg/g	20.83	1.49	11	7.18	3	rv	-1.86	-0.33
Rb	µg/g	140.13	4.28	19	3.05	1,2,3	cve	9.12	-2.75
Sm	µg/g	8.43	0.22	12	2.56	2,3	cve	11.07	-3.22
Sr	µg/g	965.23	26.30	13	2.72	1,3	cve	0.74	0.11
Ta	µg/g	12.62	0.72	10	5.68	1,2,3	rv	-1.09	-0.89
Tb	µg/g	0.99	0.10	17	9.76	2,3	rv	-0.99	-0.25
Th	µg/g	27.34	2.06	23	7.52	1,2,3	cve	1.44	-1.17
U	µg/g	6.97	0.52	13	7.46	2,3	cve	-0.21	0.21
V	µg/g	42.65	2.97	13	6.96	1,2,3	rv	0.65	0.69
Y	µg/g	31.47	1.93	16	6.14	1,3	rv	-0.72	-0.46
Yb	µg/g	3.05	0.13	15	4.39	2,3	cve	-0.89	0.25
Zn	µg/g	92.84	3.90	15	4.21	1,2,3	cve	12.592	3.371
Zr	µg/g	514.76	28.05	11	5.45	1,3	rv	-0.626	-0.462

Secondary property values given for information							
Component	Unit	Mean	sd	N	RSD %	Analytical technique	Quality value
As	µg/g	4.43	1.51	6	34.08	3	pv
Mo	µg/g	6.98	1.08	6	15.43	3	pv
Ni	µg/g	3.17	1.40	6	44.23	1,3	pv
Sb	µg/g	0.21	0.01	4	4.61	3	pv
Sc	µg/g	0.46	0.26	12	57.01	2,3	pv
Sn	µg/g	1.90	0.35	4	18.23	3	pv
Tm	µg/g	0.47	0.02	7	4.21	3	pv
W	µg/g	32.70	5.24	5	16.04	3	pv
Total	µg/g	319.11	100.33	7	31.44	1	pv

rx=1 naa=2, ms=3 gravimetry=4; cve=certified value equivalent, rv= recommended value, pv= provisional value

Fe₂O₃ Total = total iron Stot=total sulfur

LOI (1000⁰ C) = loss on igniting sample at temperature (105 – 1000⁰ C)

analysed elements: 51, cve:20, rv:22, pv:9

Special Instructions for correct use: before use dry 2 hr at 105°C