



Consensus values from interlaboratory assay  
 IGLs-1

Date	02-20-2006
Certification process	First stage finished
Batch number	IGLs-1/split ____
Availability	In glass bottles of 25g of powder
Supplier	LFRX-IGLUNAM Ciudad Universitaria 04510 México, D. F.
Country:	MEXICO
Description	Lateritic soil form Arandas, Jalisco, México
Statement of intended use	

Component	Unit	Mean	sd	N	RSD %	Analytical technique	Quality value	Kurt	skew
SiO2	%	45.69	0.45	13	0.98	1	rv	3.67	1.62
TiO2	%	2.59	0.09	19	3.48	1,2,3	cve	-0.81	-0.51
Al2O3	%	23.86	0.55	16	2.32	1,2	rv	6.93	-2.30
Fe2O3t	%	13.01	0.16	19	1.20	1,2	rv	-0.53	0.10
MnO	%	0.28	0.01	22	4.72	1,2,3	cve	-1.74	0.28
MgO	%	0.29	0.04	11	13.77	1	rv	0.29	0.85
CaO	%	0.40	0.02	19	5.45	1,2	rv	-0.55	0.62
Na2O	%	0.36	0.05	16	13.73	1,2	rv	-0.66	-0.62
K2O	%	0.60	0.01	19	2.47	1,2	cve	-0.88	0.02
P2O5	%	0.13	0.01	16	6.39	1	rv	-1.33	-0.12
LOI	%	11.85	0.21	12	1.75	4	rv	-0.12	-0.71
As	µg/g	5.90	0.70	7	11.82	1,2	rv	0.60	0.64
Ba	µg/g	386.80	24.02	16	6.21	1,2,3	rv	0.00	-1.73
Ce	µg/g	105.76	3.99	16	3.77	1,2,3	cve	-0.67	-0.52
Co	µg/g	46.01	2.77	14	6.01	1,2,3	rv	-1.53	-0.11
Cr	µg/g	215.08	8.55	13	3.97	1,2,3	cve	-1.34	0.38
Cs	µg/g	3.23	0.09	8	2.85	2,3	cve	-0.71	0.53
Cu	µg/g	56.22	2.16	12	3.84	1,3	cve	-1.41	0.24
Dy	µg/g	6.58	0.45	14	6.89	2,3	cve	-0.84	-0.03
Er	µg/g	3.98	0.20	10	4.96	3	rv	-0.75	0.02
Eu	µg/g	1.14	0.06	16	5.17	2,3	cve	-1.48	-0.16
Ga	µg/g	32.51	0.59	7	1.82	1,3	cve	2.86	1.50
Gd	µg/g	6.87	0.47	11	6.80	3	rv	0.90	0.94
Hf	µg/g	16.81	0.61	12	3.61	2,3	cve	4.51	-1.71
Ho	µg/g	1.40	0.06	10	4.33	3	rv	-0.46	0.05
La	µg/g	29.73	1.06	14	3.58	2,3	cve	1.31	0.17
Lu	µg/g	0.60	0.04	12	7.34	2,3	cve	0.63	0.61
Nb	µg/g	49.97	2.21	12	4.43	1,3	cve	-1.09	0.50
Nd	µg/g	29.78	1.83	11	6.14	3	rv	-1.05	-0.26
Ni	µg/g	52.09	3.79	10	7.29	1,3	rv	-1.24	0.53
Pb	µg/g	26.87	1.18	11	4.40	1,3	cve	0.37	0.76
Rb	µg/g	75.22	5.99	19	7.97	1,2,3	rv	-1.69	0.35
Sc	µg/g	26.12	0.68	10	2.59	1,2,3	cve	-1.22	0.53
Sm	µg/g	6.85	0.15	12	2.14	2,3	cve	1.98	-1.12
Sr	µg/g	42.78	1.80	13	4.20	1,3	cve	0.67	0.89
Ta	µg/g	3.35	0.19	10	5.69	2,3	cve	-1.64	0.01
Tm	µg/g	0.61	0.02	7	3.46	2,3	cve	-1.78	-0.07
Tb	µg/g	1.09	0.10	13	9.61	2,3	rv	4.43	-1.84
Th	µg/g	15.26	0.75	19	4.95	1,2,3	cve	0.43	-0.63
U	µg/g	4.74	0.26	10	5.47	2,3	cve	-0.35	-0.46
V	µg/g	290.37	13.05	11	4.49	1,2,3	cve	-1.52	-0.01
Y	µg/g	38.20	2.41	11	6.30	1,3	rv	-1.48	-0.34
Yb	µg/g	4.05	0.34	12	8.39	2,3	rv	-1.74	0.42
Zn	µg/g	102.15	3.61	11	3.53	1,3	cve	-1.19	0.40
Zr	µg/g	578.79	36.64	10	6.33	1,3	rv	1.87	-1.10

Secondary property values given for information							
Component	Unit	Mean	sd	N	RSD %	Analytical technique	Quality value
Be	µg/g	4.00	0.08	4	2.04	3	pv
Ge	µg/g	1.83	0.60	4	32.96	3	pv
Mo	µg/g	3.02	0.33	5	11.08	3	pv
Pr	µg/g	7.68	0.45	8	5.81	3	pv
Sb	µg/g	0.88	0.02	4	2.62	3	pv
Sn	µg/g	5.60	0.27	4	4.84	3	pv
W	µg/g	2.63	0.34	4	12.85	3	pv
Stot	µg/g	193.95	45.38	6	23.40	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 ( 1000 ° C ) = loss on igniting sample at temperature (105 – 1000 0 C )

analysed elements: 53, cve:24, rv:21, pv:8

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