19.6 Gypsum

		SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	K_2O	Na_2O	TiO_2	SO_3	CO_2	Cl	H_2O+	SrO	L.O.I.	P_2O_5	V_2O_5	Size
	196 CG 03109a	1.68	0.34	0.16	39.24	1.74	0.094	0.065	0.016	51.91	(4.02)	0.033	0.39	(0.27)	4.55	...	...	50g
	196 CG 03110	7.21	1.92	0.63	28.5	4.92	0.38	0.021	...	32.55	(8.63)	0.019	14.27	(0.071)	(23.55)	...	...	50g
	196 CG 03111a	0.63	0.14	0.11	32.3	2.47	0.026	0.14	0.01	40.72	(5.44)	0.0032	17.45	(0.096)	23.6	...	...	50g
	196 CD FGD-1	0.13	0.023	0.014	32.7	0.007	0.007	0.005	...	46.4	0.02	...	20.70	0.012	21.04	0.03	0.0003	100g
	196 CD FGD-2	0.21	0.033	0.043	32.8	0.019	0.01	0.02	...	45.6	0.62	...	20.38	0.024	21.33	0.05	0.0009	100g
	196 CD GYP-A	0.45	0.10	0.05	32.9	0.18	0.021	0.009	...	46.2	0.47	...	19.4	0.11	20.06	0.011	...	100g
	196 CD GYP-B	1.05	0.17	0.07	32.8	1.80	0.05	0.021	...	41.0	5.0	...	17.80	0.14	22.85	0.010	...	100g
	196 CD GYP-C	3.5	0.79	0.40	30.4	5.35	0.36	0.022	...	33.0	11.2	...	14.37	0.35	25.93	0.018	...	100g
	196 CD GYP-D	8.7	2.03	1.08	28.2	1.73	0.54	0.07	...	36.7	3.6	...	16.39	0.18	20.82	0.025	...	100g
	196 CD TIG-1	0.11	0.57	0.26	32.3	0.12	0.008	0.036	0.82	43.4	1.41	...	20.3	0.42	22.03	0.04	0.10	100g

19.7 Limestone and Dolomite

		CaO	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	MnO	P_2O_5	SrO	MgO	Na_2O	K_2O	Cr_2O_3	L.O.I.	Other	Type	Size
CRM	197 E 35	53.8	1.98	0.24	0.14	0.013	0.012	0.008	0.04	0.7	0.004	0.1	...	43.0		Calcitic	80g
CRM	197 E 44	50.5	2.69	0.33	0.3	0.019	0.015	0.013	0.04	2.93	0.002	0.12	...	42.9			80g
CRM	197 E 122	32.0	4.3	1.24	0.65	0.06	0.042	0.048	0.018	17.5	0.019	0.43	...	43.3		Dolomitic	80g
CRM	197 A E752-1	55.4	0.70	0.12	0.045	0.009	0.010	(<0.01)	0.019	0.15	(<0.03)	0.02	...	43.4	BaO 0.006	Limestone	100g
CRM	197 A E782-1	30.34	0.266	0.104	0.450	0.0042	0.081	0.0128	...	21.29	...	0.0260	0.0009	47.25		Dolomite	100G
CRM	197 TI E701-1	52.7	1.99	0.55	1.04	0.03	0.028	0.05	...	0.6	...	...	...	...	S 0.040	Calcitic	100g
	197 GC AN34	57.2	1.02	0.38	1.05	0.02	...	...	...	40.0	0.11	0.08	0.01	...	Mn_3O_4 0.14	Dolomite	100g
	197 GC 2CAS6	30.8	1.71	0.67	0.49	0.03	...	...	...	19.7	0.04	0.14	<0.01	45.9	Mn_3O_4 0.07	Dolomitic	100g
	Results calculated to the Ignited Basis																
	197 DH X0907	28.67	3.91	0.846	0.84	0.065	0.046	0.067	...	20.06	0.045	0.349	...	44.68	SO_3 0.105	Dolomite	100g
	197 DH X0908	26.57	8.55	1.93	1.19	0.140	0.045	0.086	...	18.59	0.056	0.734	...	41.39	SO_3 0.242	Dolomite	100g
	197 DH X0909	34.94	6.71	1.55	0.92	0.110	0.037	0.065	...	12.99	0.043	0.589	...	41.59	SO_3 0.180	Dolomite	100g
	197 DH X0912	32.78	7.14	5.59	11.36	0.292	1.34	0.495	...	27.99	0.051	0.076	...	12.43	SO_3 0.502	Recycled Dolomite	100g
	197 DH X0913	25.23	5.23	3.44	18.76	0.164	0.78	0.226	...	30.31	0.041	0.058	...	14.89	SO_3 0.389	Recycled Dolomite	100g
	197 S JLs-1	55.09	0.120	0.0207	0.0178	0.0020	0.00209	0.0295	0.035	0.606	0.00194	0.00297	0.0005	...	~50 elements at ppm levels		100g
	197 S JDo-1	33.96	0.216	0.0174	0.0232	0.00133	0.00657	0.0343	0.014	18.47	0.0129	0.00232	0.0012	...	~50 elements at ppm levels		100g
	197 CG 03105	53.27	1.98	0.29	0.14	0.016	0.0045	0.0088	...	1.40	0.026	0.059	...	42.82	SO_3, Cl		50g
	197 CG 03105a	54.03	1.09	0.24	0.11	0.010	0.0067	0.0081	...	0.81	0.017	0.084	...	43.12	SO_3, Cl		50g
	197 CG 03106	50.38	4.38	0.64	0.29	0.034	0.0071	0.013	...	2.28	0.07	0.14	...	41.58	SO_3, Cl		50g
	197 CG 03106a	51.61	2.09	0.33	0.17	0.015	0.0089	0.0061	...	2.25	0.017	0.17	...	42.84	SO_3, Cl		50g
	197 CG 03107	49.94	3.76	1.25	0.78	0.059	0.019	0.04	...	2.18	0.026	0.5	...	41.35	SO_3, Cl		50g
	197 CG 03108	47.49	3.84	0.88	1.97	0.014	0.19	0.04	...	3.63	0.024	0.23	...	41.52	SO_3, Cl		50g
	197 CG 07108	35.67	15.60	5.03	2.52	0.327	0.056	0.051	0.108	5.19	0.081	0.78	0.004	34.5	~50 elements at ppm levels		70g
	197 CG 07114	30.02	0.62	0.1	0.04	0.015	0.01	0.006	0.006	21.8	0.03	0.038	0.0005	47.1	~50 elements at ppm levels		100g
	197 CG 07214	54.95	0.38	0.017	0.071	...	0.009	...	...	0.67	...	...	...	43.57	P, S		50g
	197 CG 07215	51.56	1.17	0.5	0.292	...	0.018	...	...	2.67	...	...	...	43.22	P, S		50g
	197 CG 07216	36.55	0.092	0.027	0.226	...	0.029	...	...	16.59	...	...	...	46.23	P, S	Dolomite	50g
	197 CG 07217	30.6	0.96	0.295	0.376	...	0.062	...	...	20.73	...	...	...	46.3	P, S	Dolomite	50g
	197 CG 07210	51.32	3.26	0.58	1.04	0.037	0.024	36.89	0.077	0.43	0.33	0.17	...	...	F 3.54	Phosphate	100g
	197 CG 07211	40.71	3.61	2.58	1.08	0.14	0.015	2.086	0.16	8.19	0.059	0.28	...	...	F 2.05	Phosphate	100g
	197 CG 07212	19.42	38.8	4.06	3.08	0.48	0.026	6.06	0.055	7.12	0.14	2.63	...	...	F 0.51	Phosphate	100g
	197 BG COD 35B	32.44	0.100	0.037	0.017	...	...	...	...	20.03	...	...	...	47.24	CO_2 47.29	Dolomite	50g
	197 B 88b	29.95	1.13	0.336	0.277	...	0.0160	0.0044	0.0076	21.03	0.0290	0.1030	...	...	CO_2 46.37	Dolomitic limestone	75g

19.7a Trace elements in Synthetic Limestone

All Elements ppm

	Ag	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cu	Ga	La	Li	Mn	
197 CG 07712	0.030	2.2	2.2	24	0.22	0.23	0.023	2.8	2.3	2.3	2.2	2.8	2.6	3.2	37	
197 CG 07713	0.060	5.2	5	54	0.52	0.53	0.053	5.8	5.3	5.3	5.2	5.8	5.6	6.2	67	
197 CG 07714	0.11	10.2	10	104	1.0	1.0	0.10	11	10.3	10.3	10.2	10.8	10.6	11.2	117	
197 CG 07715	0.21	20	20	204	2.0	2.0	0.20	21	20.3	20.3	20	20.8	20.6	21	217	
197 CG 07716	0.51	50	50	504	5.0	5.0	0.50	51	50	50	50	51	50.6	51	517	continued
197 CG 07717	1.0	100	100	1000	10	10	1.00	101	100	100	100	101	101	101	1020	
197 CG 07718	2.0	200	200	2000	20	20	2.00	200	200	200	200	200	200	200	2020	
197 CG 07719	5.0	500	500	5000	50	50	5.00	500	...	...	500	...	...	500	5000	
197 CG 07720	10	...	...	...	100	100	10	...	...	...	1000	...	...	...	10000	

In each case, the matrix for this set is the same: 85% $CaCO_3$, 8% $MgCO_3$, 5.2% SiO_2, 1.1% Al_2O_3, trace Fe_2O_3, Na_2SO_4.

Continuation from above	Mo	Nb	Ni	Pb	Sb	Sn	Sr	Ti	V	W	Y	Yb	Zn	Zr	Size
197 CG 07712	0.21	2.5	2.1	2.4	0.21	0.28	110	31	3.2	0.22	2.1	0.22	3.0	4.0	70g
197 CG 07713	0.51	5.5	5.1	5.4	0.51	0.58	200	61	6.2	0.52	5.1	0.52	6.0	7.0	70g
197 CG 07714	1.0	10.5	10	10.4	1.0	1.1	250	111	11.2	1.0	10	1.0	11	12	70g
197 CG 07715	2.0	20.5	20	20.4	2.0	2.1	350	210	21	2.0	20	2.0	21	22	70g
197 CG 07716	5.0	50.5	50	50	5.0	5.1	650	510	51	5.0	50	5.0	51	52	70g
197 CG 07717	10	100	100	100	10	10	1150	1010	101	10	100	10	101	102	70g
197 CG 07718	20	200	200	200	20	20	2200	2000	200	20	200	20	200	202	70g
197 CG 07719	50	...	500	500	50	50	5200	5000	500	50	...	50	500	500	70g
197 CG 07720	100	...	...	1000	100	100	...	...	...	100	...	100	1000	...	70g