

Figure S1. Thermogravimetric analysis (TGA).

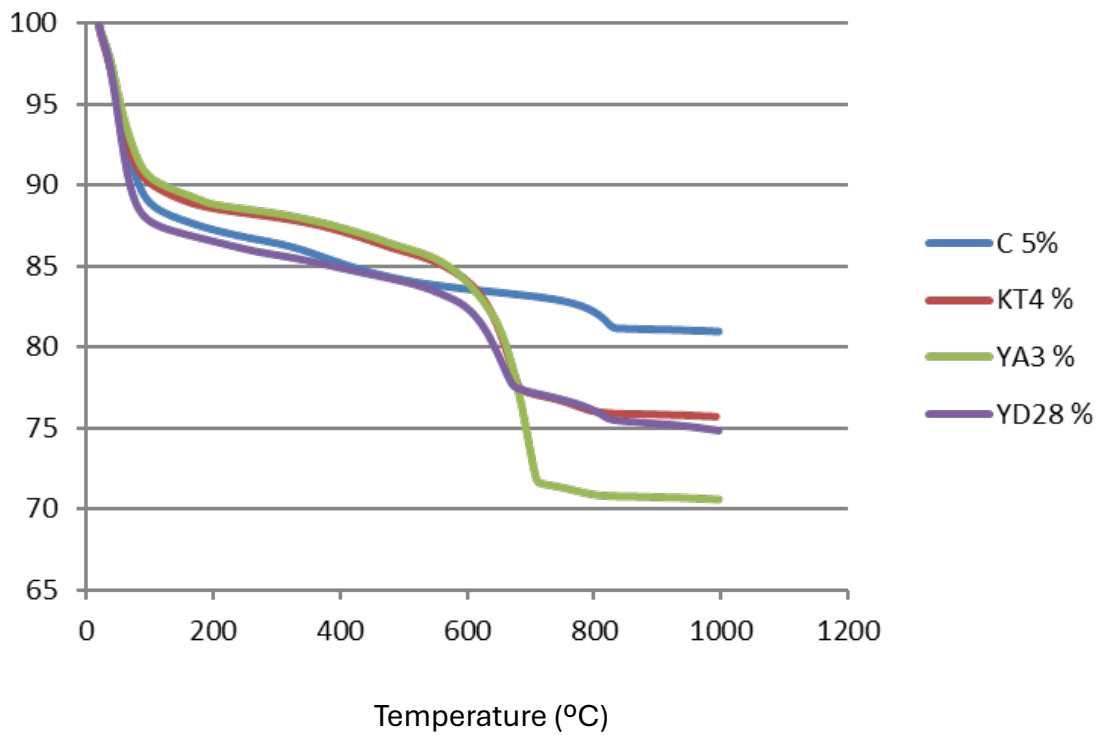


Figure S2. Differential thermal analysis (DTA).

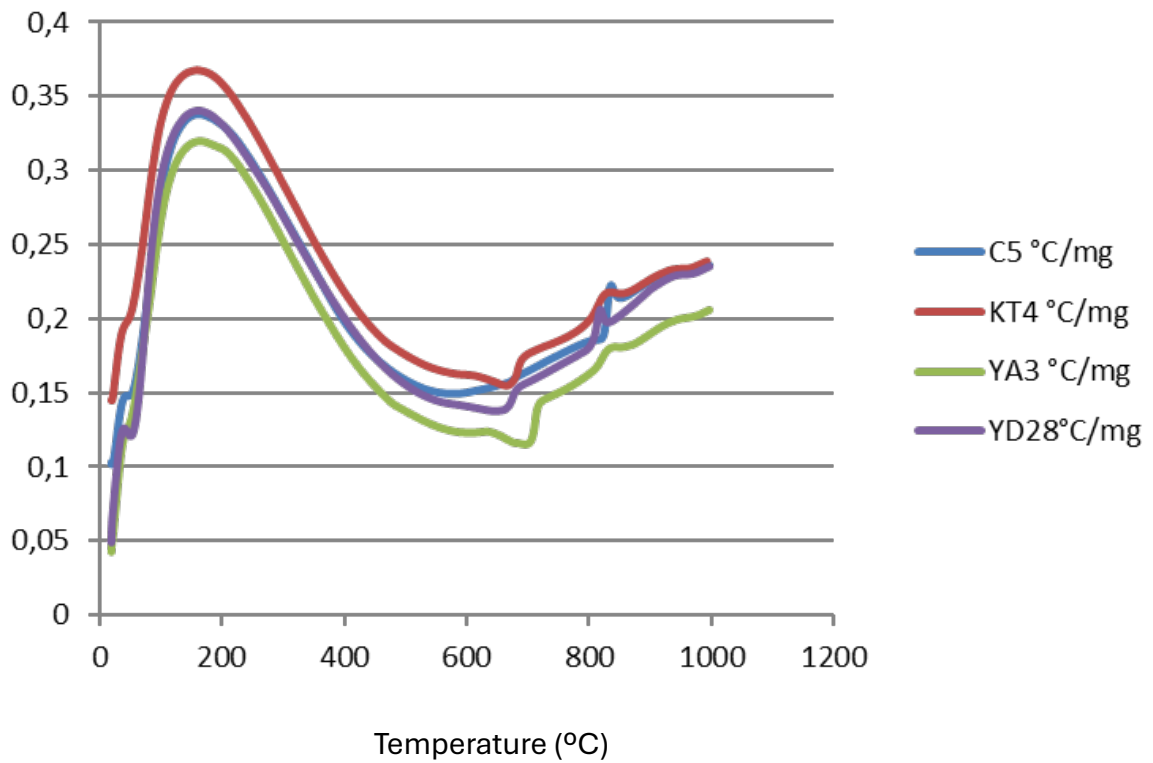


Figure S3. Differential scanning calorimetry (DSC).

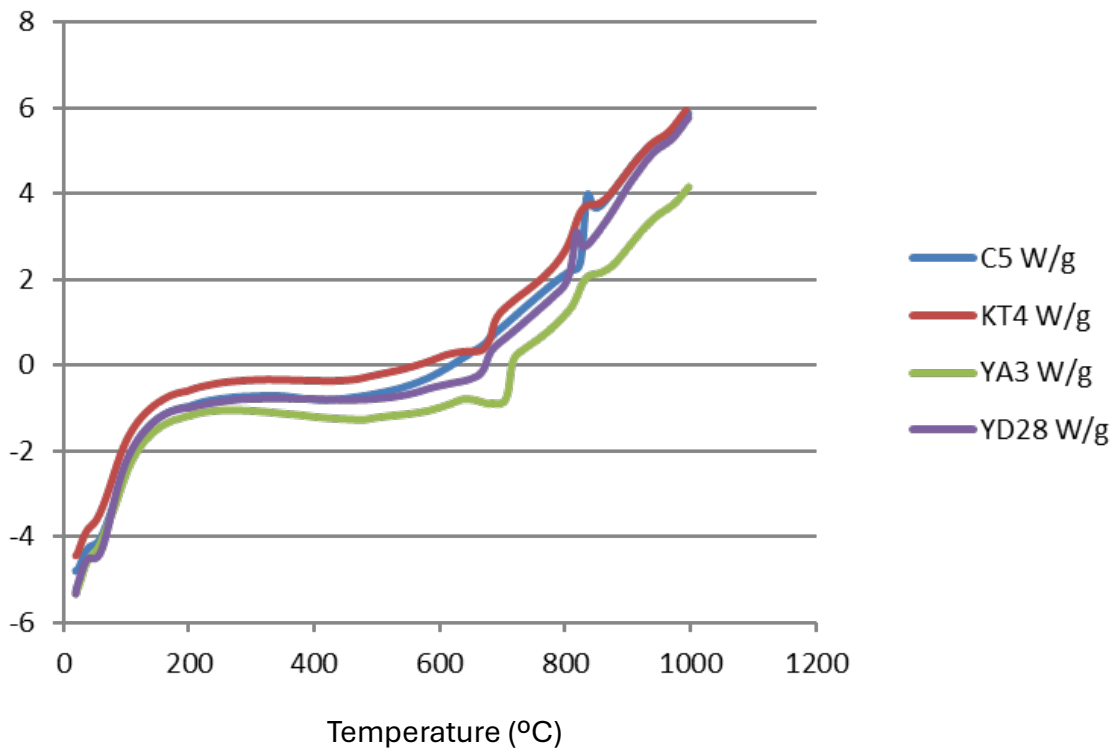


Figure S4. Percentage of dolomite (from chemical analysis, in Table 1) vs the intensity of the peak at 700°C in the DTG curve

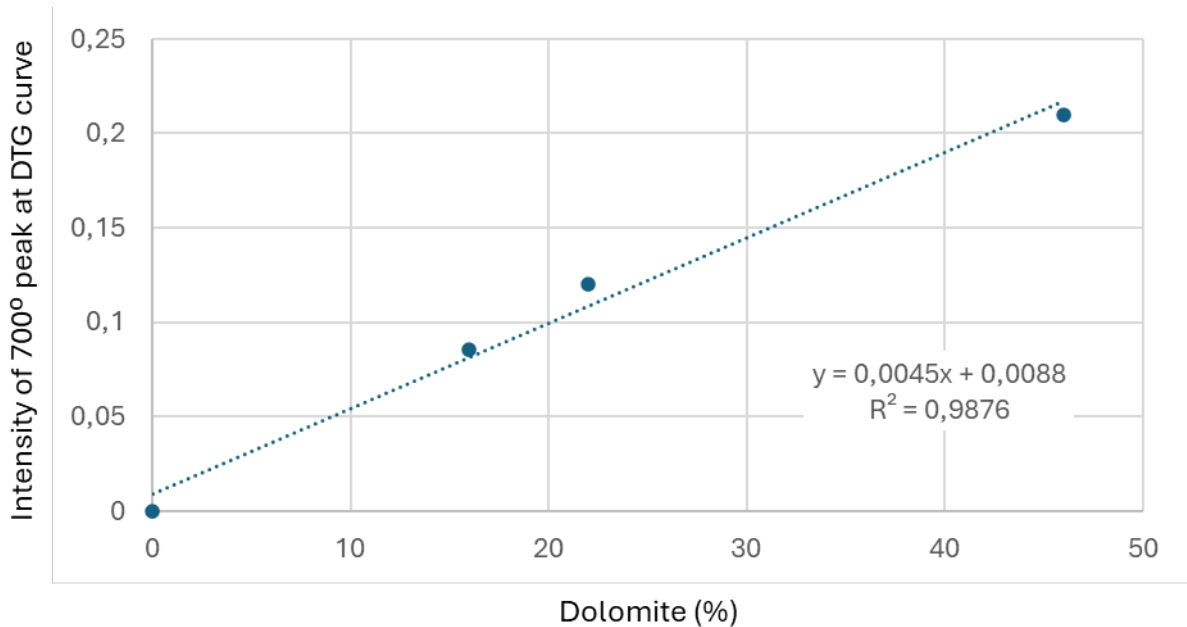


Figure S5. Contents on the main cations for the natural samples and their homoionic counterparts, expressed as weight percentage of the oxides.

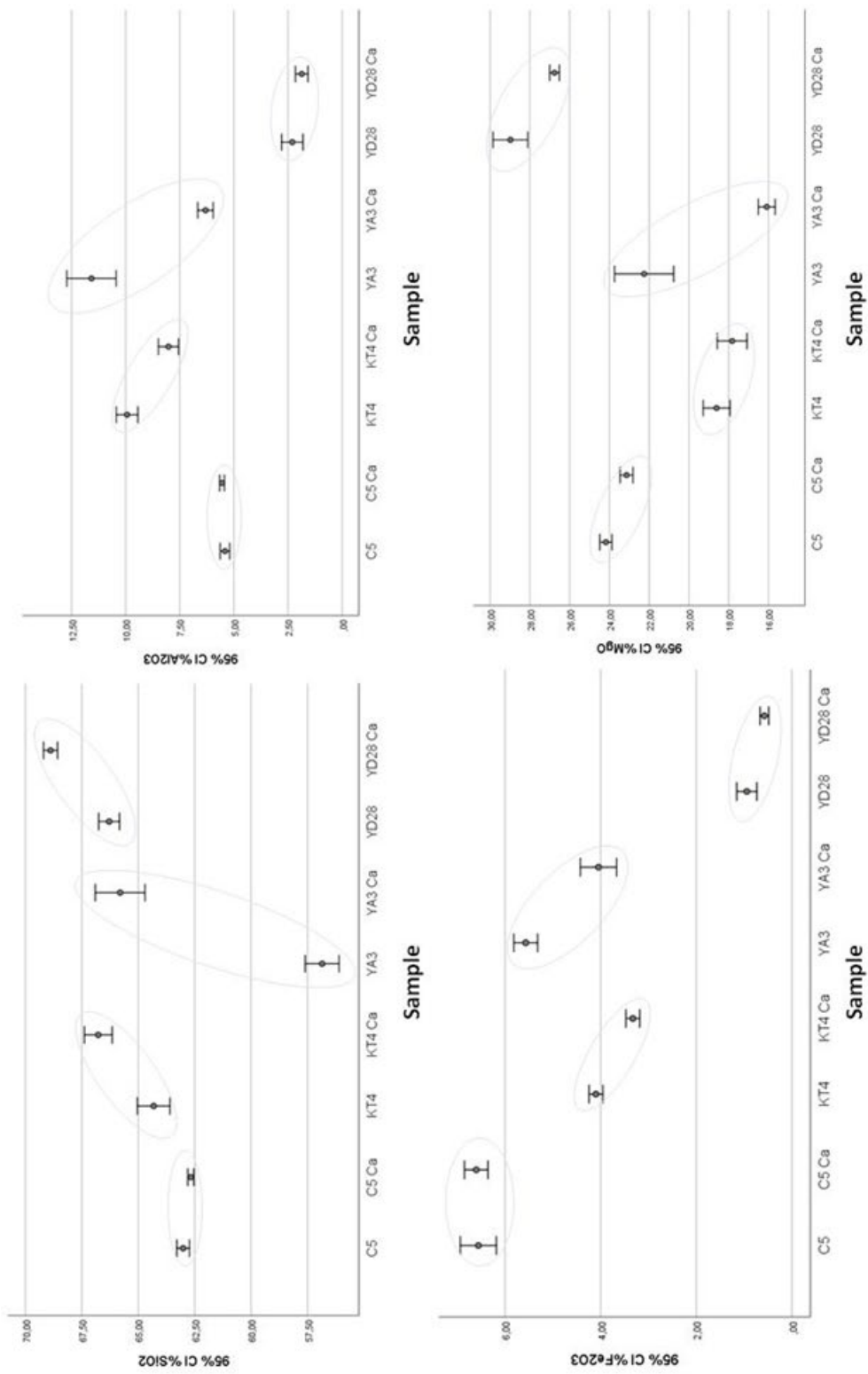


Table S1. Point analysis of smectite particles in % oxides.

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
C5 1	61.39	5.54	8.94	23.23	0.57	0.34
C5 2	61.77	5.45	8.82	23.13	0.53	0.31
C5 3	61.83	5.50	8.69	23.12	0.52	0.35
C5 4	62.77	4.87	7.16	24.33	0.54	0.33
C5 5	62.60	4.80	7.29	24.47	0.54	0.31
C5 6	63.77	4.06	5.76	25.63	0.55	0.21
C5 7	63.47	5.53	6.26	23.87	0.48	0.38
C5 8	63.35	5.52	6.32	23.96	0.47	0.38
C5 9	63.62	5.12	7.03	23.40	0.46	0.37
C5 10	63.86	5.13	6.03	24.17	0.45	0.36
C5 11	63.75	4.71	5.55	25.23	0.43	0.33
C5 12	63.13	6.25	5.96	23.76	0.54	0.36
C5 13	60.85	6.85	7.87	23.60	0.45	0.38
C5 14	62.86	5.22	6.07	25.07	0.41	0.37
C5 15	63.51	5.00	5.51	25.12	0.45	0.40
C5 16	63.50	4.77	5.34	25.64	0.40	0.35
C5 17	63.44	5.20	5.74	24.83	0.45	0.34
C5 18	63.58	5.13	5.87	24.66	0.42	0.34
C5 19	62.98	5.32	7.23	23.57	0.42	0.48
C5 20	61.96	6.29	7.54	23.26	0.45	0.50
C5 21	63.28	5.63	5.90	24.41	0.41	0.39
C5 22	63.43	5.63	5.85	24.33	0.39	0.39
C5 23	63.54	5.53	5.99	24.19	0.39	0.37
C5 24	62.86	5.66	6.96	23.58	0.43	0.51
C5 25	63.36	4.88	5.62	25.31	0.47	0.36
C5 26	63.57	5.15	5.70	24.76	0.44	0.39
C5 27	63.32	5.20	5.77	24.86	0.47	0.39
C5 28	62.91	5.89	6.57	23.73	0.43	0.46
C5 29	62.99	6.07	6.54	23.47	0.44	0.50
C5 30	63.01	6.53	6.88	22.60	0.44	0.53
Mean	63.01	5.41	6.56	24.18	0.46	0.38
Desv Est	0.75	0.59	1.01	0.81	0.05	0.07

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
KT4 1	62.00	13.70	4.65	15.52	1.02	3.10
KT4 2	62.05	13.73	4.67	15.45	1.01	3.10
KT4 3	64.21	11.92	4.86	15.17	1.25	2.60
KT4 4	66.36	9.48	3.78	17.81	1.21	1.36
KT4 5	66.28	9.41	3.81	17.92	1.23	1.35
KT4 6	64.07	10.13	4.09	17.58	2.49	1.65
KT4 7	65.19	9.35	3.94	17.99	2.16	1.37
KT4 8	65.55	9.70	4.04	18.07	1.21	1.43

KT4 9	65.65	9.70	4.03	18.00	1.21	1.40
KT4 10	67.64	7.12	2.78	20.47	1.11	0.88
KT4 11	64.60	9.04	3.80	19.12	2.13	1.31
KT4 12	64.07	9.58	4.15	18.16	2.62	1.43
KT4 13	65.98	9.39	4.06	17.36	1.88	1.34
KT4 14	63.93	10.67	4.23	18.09	1.51	1.58
KT4 15	64.05	10.61	4.20	18.09	1.48	1.57
KT4 16	64.09	10.60	4.26	18.00	1.49	1.55
KT4 17	64.10	10.30	4.26	18.31	1.53	1.51
KT4 18	61.84	9.58	4.09	22.38	0.93	1.17
KT4 19	61.85	9.54	4.10	22.48	0.90	1.13
KT4 20	65.43	9.02	4.84	18.55	0.94	1.22
KT4 21	67.51	9.75	4.35	16.92	0.75	1.20
KT4 22	65.48	9.17	3.94	19.44	0.91	1.06
KT4 23	65.71	8.91	3.99	19.53	0.85	1.02
KT4 24	63.52	9.39	3.84	20.05	2.04	1.15
KT4 25	62.59	9.91	4.03	20.48	1.64	1.35
KT4 26	62.52	9.93	4.07	20.45	1.71	1.32
KT4 27	63.25	9.59	3.99	20.12	1.90	1.15
KT4 28	59.30	9.51	4.09	19.96	5.29	1.85
KT4 29	66.37	9.40	3.91	18.21	1.00	1.11
Mean	64.32	9.93	4.10	18.61	1.57	1.49
Desv Est	1.90	1.31	0.38	1.77	0.88	0.54

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
YA3 1	58.23	17.74	5.46	14.16	1.03	3.38
YA3 2	57.86	17.95	5.38	14.53	0.99	3.30
YA3 3	57.98	18.10	5.30	14.20	1.06	3.36
YA3 4	57.82	18.05	5.35	14.34	1.09	3.35
YA3 5	55.10	10.61	6.13	24.34	2.76	1.06
YA3 6	55.33	10.55	6.18	24.26	2.61	1.05
YA3 7	55.39	10.37	6.14	23.91	3.24	0.95
YA3 8	54.00	11.18	6.44	22.62	4.72	1.05
YA3 9	54.67	12.40	6.15	22.73	2.69	1.35
YA3 10	54.60	12.19	6.14	22.81	2.94	1.32
YA3 11	58.78	8.17	4.15	26.85	1.28	0.78
YA3 12	58.86	7.99	4.21	26.79	1.39	0.76
YA3 13	58.46	8.33	4.40	26.82	1.16	0.83
YA3 14	58.76	8.81	5.02	25.52	1.06	0.83
YA3 15	58.81	8.92	5.06	25.35	1.03	0.84
YA3 16	59.24	10.21	5.71	22.97	0.91	0.95
YA3 17	58.93	13.10	5.61	19.55	1.13	1.68
YA3 18	59.98	13.20	5.78	18.65	0.76	1.64
YA3 19	58.81	8.46	4.82	26.20	0.91	0.80
YA3 20	58.86	8.36	4.85	26.21	0.92	0.80
YA3 21	54.68	10.26	5.92	23.77	4.34	1.03

YA3 22	56.39	15.30	5.82	18.18	1.50	2.81
YA3 23	55.25	11.38	6.30	22.50	3.31	1.26
YA3 24	55.18	11.67	5.32	22.90	3.53	1.41
YA3 25	56.64	11.36	6.26	20.43	3.76	1.54
YA3 26	55.28	11.06	6.29	21.33	4.49	1.56
YA3 27	54.43	10.68	6.19	22.99	4.31	1.41
YA3 28	55.18	11.52	5.85	22.62	3.70	1.14
YA3 29	53.00	8.60	4.68	28.28	4.72	0.73
YA3 30	59.03	10.92	6.12	21.74	1.03	1.16
Mean	56.85	11.58	5.57	22.25	2.28	1.47
Desv Est	2.01	3.05	0.67	3.98	1.41	0.85

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
YD28 1	65.93	2.06	0.96	27.81	2.70	0.55
YD28 2	67.28	1.87	0.70	29.11	0.76	0.28
YD28 3	67.66	1.61	0.81	28.79	0.91	0.22
YD28 4	67.68	1.63	0.82	28.73	0.92	0.22
YD28 5	66.87	1.79	0.64	29.65	0.81	0.23
YD28 6	67.51	1.60	0.58	29.26	0.81	0.24
YD28 7	67.79	1.56	0.52	29.07	0.82	0.25
YD28 8	65.63	1.51	0.67	30.52	1.48	0.18
YD28 9	65.41	1.65	0.63	30.63	1.48	0.21
YD28 10	65.67	1.56	0.66	30.51	1.43	0.17
YD28 11	65.66	1.80	0.57	30.59	1.18	0.20
YD28 12	65.56	1.82	0.54	30.65	1.25	0.18
YD28 13	65.94	1.50	0.80	30.62	0.98	0.17
YD28 14	66.17	1.75	0.78	30.11	0.95	0.23
YD28 15	64.63	2.87	1.95	29.65	0.74	0.16
YD28 16	64.55	2.81	1.85	29.88	0.74	0.16
YD28 17	64.90	2.07	0.63	31.43	0.79	0.18
YD28 18	65.10	2.08	0.62	31.25	0.78	0.17
YD28 19	63.31	1.77	0.57	31.53	2.65	0.17
YD28 20	65.13	1.78	0.55	31.48	0.89	0.17
YD28 21	67.63	1.67	0.65	28.89	0.89	0.27
YD28 22	67.68	1.78	0.59	28.88	0.79	0.27
YD28 23	67.37	1.86	0.73	28.92	0.84	0.28
YD28 24	67.92	1.42	0.64	28.94	0.88	0.21
YD28 25	67.54	1.42	0.66	29.32	0.83	0.22
YD28 26	67.70	1.90	0.79	28.56	0.82	0.23
YD28 27	65.06	6.41	2.46	23.19	0.66	2.22
YD28 28	66.47	5.15	1.98	23.75	0.78	1.87
YD28 29	66.60	5.17	1.92	23.72	0.78	1.81
YD28 30	66.36	5.15	1.98	23.85	0.79	1.87
Mean	66.29	2.30	0.94	28.98	1.04	0.45
Desv Est	1.23	1.32	0.57	2.34	0.50	0.60

Table S2. Point analysis of Ca-homionized smectite particles in % of oxides.

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
C5 Ca 1	62.80	5.10	5.25	25.18	1.35	0.32
C5 Ca 2	63.12	5.62	6.87	22.37	1.55	0.47
C5 Ca 3	63.02	5.69	7.22	22.05	1.56	0.47
C5 Ca 4	63.05	5.51	7.22	22.14	1.64	0.44
C5 Ca 5	62.78	5.64	7.18	22.34	1.60	0.46
C5 Ca 6	62.81	5.69	7.20	22.25	1.58	0.47
C5 Ca 7	62.69	5.99	7.10	22.28	1.45	0.49
C5 Ca 8	62.95	4.99	5.58	24.58	1.58	0.33
C5 Ca 9	62.77	5.11	5.55	24.68	1.56	0.33
C5 Ca 10	62.49	5.50	5.43	24.38	1.84	0.36
C5 Ca 11	62.28	5.77	6.06	23.69	1.79	0.40
C5 Ca 12	62.18	5.77	6.15	23.88	1.66	0.35
C5 Ca 13	62.18	5.62	6.28	23.80	1.73	0.39
C5 Ca 14	62.28	5.77	6.23	23.67	1.70	0.35
C5 Ca 15	61.70	5.96	7.67	22.58	1.62	0.47
C5 Ca 16	62.46	5.63	6.53	23.19	1.75	0.44
C5 Ca 17	62.94	5.85	6.41	22.72	1.67	0.41
C5 Ca 18	62.78	6.26	7.21	21.71	1.60	0.43
C5 Ca 19	62.99	5.27	5.81	23.92	1.51	0.49
C5 Ca 20	62.87	5.24	6.55	23.32	1.61	0.41
C5 Ca 21	62.63	5.58	7.20	22.58	1.60	0.42
C5 Ca 22	62.53	5.56	7.05	22.81	1.61	0.44
C5 Ca 23	62.77	5.64	6.21	23.28	1.70	0.40
C5 Ca 24	62.76	5.24	6.64	23.29	1.73	0.34
C5 Ca 25	62.99	5.61	7.30	21.94	1.69	0.47
C5 Ca 26	62.94	5.06	6.64	23.42	1.61	0.33
C5 Ca 27	62.19	5.33	7.33	23.12	1.73	0.30
C5 Ca 28	62.05	5.37	7.42	23.11	1.76	0.29
C5 Ca 29	63.21	5.46	6.20	23.01	1.71	0.41
C5 Ca 30	62.89	5.54	6.59	22.84	1.71	0.43
Media	62.67	5.55	6.60	23.14	1.64	0.40
Desv Est	0.36	0.29	0.66	0.87	0.10	0.06

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
KT4 Ca 1	66.16	9.52	4.12	16.69	2.21	1.31
KT4 Ca 2	67.31	7.61	3.44	17.67	3.05	0.91
KT4 Ca 3	67.09	7.56	3.43	17.72	3.30	0.90
KT4 Ca 4	68.35	5.82	2.93	19.53	2.74	0.61
KT4 Ca 5	64.12	7.67	3.31	19.20	4.73	0.96
KT4 Ca 6	67.43	7.80	3.21	16.96	3.51	1.09
KT4 Ca 7	68.14	8.06	3.20	15.33	4.06	1.22
KT4 Ca 8	64.74	9.53	4.10	16.49	3.60	1.54
KT4 Ca 9	68.56	8.29	3.19	16.53	2.09	1.35

KT4 Ca 10	68.16	9.46	3.72	14.92	2.16	1.57
KT4 Ca 11	67.14	9.69	4.04	15.22	2.56	1.36
KT4 Ca 12	68.12	8.46	3.29	17.11	2.05	0.96
KT4 Ca 13	67.32	8.19	3.23	18.02	2.21	1.04
KT4 Ca 14	67.44	7.41	3.21	18.88	2.23	0.82
KT4 Ca 15	67.18	7.64	3.15	18.91	2.25	0.87
KT4 Ca 16	68.81	6.71	2.78	18.93	2.15	0.62
KT4 Ca 17	67.50	8.82	3.69	16.46	2.39	1.14
KT4 Ca 18	67.13	8.60	3.56	17.37	2.22	1.12
KT4 Ca 19	67.45	8.58	3.40	17.22	2.17	1.17
KT4 Ca 20	68.67	8.45	3.48	16.03	2.27	1.10
KT4 Ca 21	67.20	8.76	3.89	16.91	2.15	1.10
KT4 Ca 22	67.86	7.42	3.13	14.77	5.87	0.95
KT4 Ca 23	64.18	6.71	2.94	21.29	4.03	0.85
KT4 Ca 24	66.51	5.51	2.60	21.33	3.46	0.58
KT4 Ca 25	66.70	5.52	2.60	21.09	3.53	0.57
KT4 Ca 26	63.69	7.43	3.13	22.13	2.67	0.96
KT4 Ca 27	64.09	7.72	3.06	19.16	4.92	1.04
KT4 Ca 28	62.60	7.87	3.39	20.12	4.83	1.19
KT4 Ca 29	68.08	8.57	3.23	16.67	2.20	1.25
KT4 Ca 30	65.48	11.28	3.29	16.11	1.82	2.02
Media	66.77	8.02	3.33	17.83	2.98	1.07
Desv Est	1.65	1.25	0.39	2.00	1.06	0.31

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
YA3 Ca 1	67.69	5.53	4.37	15.28	6.61	0.51
YA3 Ca 2	67.86	5.62	4.38	15.12	6.49	0.53
YA3 Ca 3	65.11	5.83	4.10	15.54	8.88	0.54
YA3 Ca 4	64.89	5.76	4.13	15.61	9.08	0.53
YA3 Ca 5	67.32	6.62	4.61	15.05	5.75	0.65
YA3 Ca 6	59.67	7.72	5.82	17.24	8.61	0.95
YA3 Ca 7	59.71	6.23	4.92	16.43	11.80	0.91
YA3 Ca 8	59.58	7.14	5.44	17.15	9.93	0.77
YA3 Ca 9	64.40	4.91	3.31	15.58	11.38	0.42
YA3 Ca 10	66.82	5.58	3.26	15.00	8.83	0.52
YA3 Ca 11	71.97	6.92	3.54	14.06	2.85	0.67
YA3 Ca 12	66.36	6.37	4.47	16.37	5.89	0.55
YA3 Ca 13	65.06	7.33	4.19	17.34	5.45	0.63
YA3 Ca 14	65.31	6.34	3.38	17.15	7.24	0.58
YA3 Ca 15	67.42	6.22	4.01	14.58	7.25	0.52
YA3 Ca 16	61.85	5.18	2.93	19.73	9.88	0.43
YA3 Ca 17	66.70	5.84	3.17	16.88	6.97	0.45
YA3 Ca 18	65.01	5.99	3.08	16.89	8.52	0.50
YA3 Ca 19	66.52	6.26	3.35	16.34	6.96	0.57
YA3 Ca 20	67.75	7.75	4.19	15.98	3.53	0.79

YA3 Ca 21	68.21	5.67	3.46	16.66	5.54	0.46
YA3 Ca 22	69.38	6.23	3.52	14.96	5.33	0.57
YA3 Ca 23	63.28	8.33	6.42	16.29	4.93	0.76
YA3 Ca 24	63.61	8.24	6.48	16.17	4.77	0.74
YA3 Ca 25	66.81	6.70	4.01	16.19	5.69	0.60
YA3 Ca 26	68.13	5.43	2.85	14.84	8.20	0.55
YA3 Ca 27	67.20	5.11	3.26	16.61	7.34	0.48
YA3 Ca 28	67.56	7.17	3.95	16.08	4.65	0.59
YA3 Ca 29	67.12	5.02	2.76	15.46	9.20	0.43
Media	65.80	6.31	4.05	16.09	7.16	0.59
Desv Est	2.89	0.94	1.00	1.12	2.21	0.14

	SiO2	Al2O3	Fe2O3	MgO	CaO	K2O
YD28 Ca 1	68.99	1.57	1.31	26.00	1.92	0.22
YD28 Ca 2	68.92	1.48	0.69	26.88	1.83	0.20
YD28 Ca 3	68.99	1.35	0.71	26.88	1.88	0.19
YD28 Ca 4	69.11	1.50	0.42	26.99	1.77	0.21
YD28 Ca 5	69.36	1.53	0.47	26.62	1.80	0.22
YD28 Ca 6	68.20	1.55	0.50	27.67	1.85	0.22
YD28 Ca 7	69.02	1.30	0.42	27.29	1.80	0.17
YD28 Ca 8	68.73	1.44	0.39	27.38	1.83	0.22
YD28 Ca 9	66.88	3.54	0.50	26.68	1.83	0.56
YD28 Ca 10	68.49	2.97	0.54	25.78	1.73	0.49
YD28 Ca 11	68.49	1.46	0.45	27.56	1.86	0.17
YD28 Ca 12	66.94	3.58	0.50	26.63	1.80	0.55
YD28 Ca 13	70.05	1.44	0.45	26.50	1.43	0.12
YD28 Ca 14	69.57	1.61	0.42	26.75	1.49	0.16
YD28 Ca 15	68.38	1.95	0.59	27.29	1.60	0.18
YD28 Ca 16	68.78	1.83	0.59	27.03	1.61	0.16
YD28 Ca 17	68.73	1.90	0.57	27.02	1.60	0.17
YD28 Ca 18	70.02	1.26	1.29	25.85	1.49	0.09
YD28 Ca 19	68.47	1.93	0.57	27.23	1.61	0.18
YD28 Ca 20	69.75	1.54	0.47	26.63	1.50	0.12
YD28 Ca 21	69.59	1.46	0.47	26.86	1.49	0.13
YD28 Ca 22	69.83	1.45	0.44	26.51	1.62	0.16
YD28 Ca 23	68.91	2.15	0.57	26.56	1.59	0.22
YD28 Ca 24	68.95	3.65	0.60	24.93	1.40	0.48
YD28 Ca 25	68.91	1.53	0.48	27.17	1.78	0.13
YD28 Ca 26	69.02	1.53	0.50	27.02	1.79	0.13
Media	68.89	1.87	0.57	26.76	1.69	0.23
Desv Est	0.77	0.72	0.23	0.60	0.16	0.13

Table S3. Structural formula of natural samples fitted for O₂₀(OH)₄.

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
C5 1	7.58	0.42	8.00	0.40	0.83	4.27	5.50	0.07	0.00	0.05	-0.42	0.22	-0.20	0.20
C5 2	7.61	0.39	8.00	0.42	0.82	4.25	5.48	0.07	0.00	0.05	-0.39	0.20	-0.19	0.19
C5 3	7.62	0.38	8.00	0.43	0.81	4.25	5.48	0.07	0.00	0.05	-0.38	0.19	-0.19	0.19
C5 4	7.70	0.30	8.00	0.41	0.66	4.45	5.52	0.07	0.00	0.05	-0.30	0.11	-0.19	0.19
C5 5	7.68	0.32	8.00	0.39	0.67	4.48	5.54	0.07	0.00	0.05	-0.32	0.13	-0.19	0.19
C5 6	7.78	0.22	8.00	0.38	0.53	4.66	5.57	0.07	0.00	0.03	-0.22	0.04	-0.18	0.18
C5 7	7.74	0.26	8.00	0.55	0.57	4.34	5.47	0.06	0.00	0.06	-0.26	0.07	-0.18	0.18
C5 8	7.73	0.27	8.00	0.54	0.58	4.36	5.48	0.06	0.00	0.06	-0.27	0.09	-0.18	0.18
C5 9	7.78	0.22	8.00	0.53	0.65	4.26	5.44	0.06	0.00	0.06	-0.22	0.05	-0.18	0.18
C5 10	7.78	0.22	8.00	0.53	0.55	4.39	5.48	0.06	0.00	0.06	-0.22	0.04	-0.17	0.17
C5 11	7.77	0.23	8.00	0.46	0.51	4.58	5.55	0.06	0.00	0.05	-0.23	0.07	-0.16	0.16
C5 12	7.70	0.30	8.00	0.61	0.55	4.32	5.48	0.07	0.00	0.06	-0.30	0.11	-0.20	0.20
C5 13	7.49	0.51	8.00	0.50	0.73	4.33	5.55	0.06	0.00	0.06	-0.51	0.34	-0.18	0.18
C5 14	7.68	0.32	8.00	0.45	0.56	4.57	5.57	0.05	0.00	0.06	-0.32	0.15	-0.16	0.16
C5 15	7.74	0.26	8.00	0.48	0.51	4.57	5.55	0.06	0.00	0.06	-0.26	0.08	-0.18	0.18
C5 16	7.74	0.26	8.00	0.44	0.49	4.66	5.59	0.05	0.00	0.05	-0.26	0.10	-0.16	0.16
C5 17	7.74	0.26	8.00	0.50	0.53	4.51	5.54	0.06	0.00	0.05	-0.26	0.09	-0.17	0.17
C5 18	7.75	0.25	8.00	0.50	0.54	4.48	5.52	0.05	0.00	0.05	-0.25	0.09	-0.16	0.16
C5 19	7.72	0.28	8.00	0.50	0.67	4.30	5.47	0.06	0.00	0.07	-0.28	0.10	-0.19	0.19
C5 20	7.61	0.39	8.00	0.53	0.70	4.26	5.49	0.06	0.00	0.08	-0.39	0.20	-0.20	0.20
C5 21	7.72	0.28	8.00	0.54	0.54	4.44	5.52	0.05	0.00	0.06	-0.28	0.12	-0.17	0.17
C5 22	7.73	0.27	8.00	0.55	0.54	4.42	5.51	0.05	0.00	0.06	-0.27	0.11	-0.16	0.16
C5 23	7.74	0.26	8.00	0.55	0.55	4.40	5.50	0.05	0.00	0.06	-0.26	0.10	-0.16	0.16
C5 24	7.70	0.30	8.00	0.53	0.64	4.30	5.47	0.06	0.00	0.08	-0.30	0.11	-0.19	0.19
C5 25	7.73	0.27	8.00	0.45	0.52	4.60	5.56	0.06	0.00	0.06	-0.27	0.09	-0.18	0.18
C5 26	7.75	0.25	8.00	0.50	0.52	4.50	5.52	0.06	0.00	0.06	-0.25	0.08	-0.17	0.17
C5 27	7.73	0.27	8.00	0.49	0.53	4.52	5.54	0.06	0.00	0.06	-0.27	0.09	-0.18	0.18
C5 28	7.69	0.31	8.00	0.55	0.60	4.32	5.48	0.06	0.00	0.07	-0.31	0.13	-0.18	0.18
C5 29	7.70	0.30	8.00	0.59	0.60	4.27	5.46	0.06	0.00	0.08	-0.30	0.11	-0.19	0.19
C5 30	7.70	0.30	8.00	0.66	0.63	4.12	5.41	0.06	0.00	0.08	-0.30	0.10	-0.20	0.20
Media	7.70	0.30	8.00	0.50	0.60	4.41	5.51	0.06	0.00	0.06	-0.30	0.12	-0.18	0.18
Desv Est	0.07	0.07	0.00	0.07	0.10	0.14	0.04	0.01	0.00	0.01	0.07	0.06	0.01	0.01

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
KT4 1	7.57	0.43	8.00	1.58	0.43	2.83	4.83	0.13	0.00	0.48	-0.43	-0.32	-0.75	0.75
KT4 2	7.58	0.42	8.00	1.59	0.43	2.81	4.83	0.13	0.00	0.48	-0.42	-0.32	-0.75	0.75
KT4 3	7.81	0.19	8.00	1.54	0.44	2.75	4.74	0.16	0.00	0.40	-0.19	-0.53	-0.73	0.73
KT4 4	7.99	0.01	8.00	1.36	0.34	3.20	4.90	0.16	0.00	0.21	-0.01	-0.51	-0.52	0.52
KT4 5	7.98	0.02	8.00	1.34	0.34	3.22	4.90	0.16	0.00	0.21	-0.02	-0.51	-0.53	0.53
KT4 6	7.79	0.21	8.00	1.27	0.37	3.19	4.83	0.32	0.00	0.26	-0.21	-0.70	-0.91	0.91
KT4 7	7.89	0.11	8.00	1.25	0.36	3.25	4.86	0.28	0.00	0.21	-0.11	-0.67	-0.77	0.77
KT4 8	7.91	0.09	8.00	1.32	0.37	3.25	4.93	0.16	0.00	0.22	-0.09	-0.45	-0.53	0.53
KT4 9	7.92	0.08	8.00	1.33	0.37	3.24	4.93	0.16	0.00	0.22	-0.08	-0.45	-0.53	0.53
KT4 10	8.11	0.00	8.11	1.02	0.25	3.66	4.93	0.14	0.00	0.13	0.44	-0.86	-0.42	0.42
KT4 11	7.84	0.16	8.00	1.15	0.35	3.46	4.95	0.28	0.00	0.20	-0.16	-0.59	-0.76	0.76
KT4 12	7.79	0.21	8.00	1.19	0.38	3.29	4.86	0.34	0.00	0.22	-0.21	-0.70	-0.90	0.90
KT4 13	7.97	0.03	8.00	1.33	0.37	3.13	4.82	0.24	0.00	0.21	-0.03	-0.66	-0.69	0.69
KT4 14	7.75	0.25	8.00	1.30	0.39	3.27	4.96	0.20	0.00	0.24	-0.25	-0.39	-0.64	0.64
KT4 15	7.76	0.24	8.00	1.31	0.38	3.27	4.96	0.19	0.00	0.24	-0.24	-0.39	-0.63	0.63
KT4 16	7.77	0.23	8.00	1.31	0.39	3.25	4.95	0.19	0.00	0.24	-0.23	-0.40	-0.63	0.63
KT4 17	7.77	0.23	8.00	1.27	0.39	3.31	4.97	0.20	0.00	0.23	-0.23	-0.40	-0.63	0.63
KT4 18	7.53	0.47	8.00	0.93	0.37	4.06	5.37	0.12	0.00	0.18	-0.47	0.04	-0.43	0.43

KT4 19	7.53	0.47	8.00	0.92	0.38	4.08	5.38	0.12	0.00	0.18	-0.47	0.06	-0.41	0.41
KT4 20	7.91	0.09	8.00	1.22	0.44	3.34	5.00	0.12	0.00	0.19	-0.09	-0.34	-0.43	0.43
KT4 21	8.14	0.00	8.14	1.41	0.39	3.04	4.85	0.10	0.00	0.19	0.56	-0.50	0.05	0.38
KT4 22	7.89	0.11	8.00	1.22	0.36	3.49	5.07	0.12	0.00	0.16	-0.11	-0.29	-0.40	0.40
KT4 23	7.92	0.08	8.00	1.20	0.36	3.51	5.07	0.11	0.00	0.16	-0.08	-0.29	-0.38	0.38
KT4 24	7.72	0.28	8.00	1.09	0.35	3.63	5.07	0.27	0.00	0.18	-0.28	-0.43	-0.71	0.71
KT4 25	7.62	0.38	8.00	1.07	0.37	3.72	5.15	0.21	0.00	0.21	-0.38	-0.26	-0.64	0.64
KT4 26	7.61	0.39	8.00	1.06	0.37	3.71	5.15	0.22	0.00	0.21	-0.39	-0.26	-0.65	0.65
KT4 27	7.69	0.31	8.00	1.08	0.37	3.65	5.10	0.25	0.00	0.18	-0.31	-0.36	-0.67	0.67
KT4 28	7.37	0.63	8.00	0.79	0.38	3.70	4.88	0.70	0.00	0.29	-0.63	-1.07	-1.70	1.70
KT4 29	7.98	0.02	8.00	1.33	0.35	3.26	4.95	0.13	0.00	0.17	-0.02	-0.41	-0.43	0.43
Media	7.80	0.21	8.01	1.23	0.37	3.36	4.97	0.20	0.00	0.23	-0.18	-0.45	-0.62	0.64
Desv Est	0.18	0.17	0.03	0.19	0.04	0.32	0.15	0.12	0.00	0.09	0.25	0.23	0.28	0.26

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
YA3 1	7.16	0.84	8.00	1.78	0.51	2.60	4.88	0.14	0.00	0.53	-0.84	0.04	-0.80	0.80
YA3 2	7.11	0.89	8.00	1.76	0.50	2.66	4.92	0.13	0.00	0.52	-0.89	0.11	-0.78	0.78
YA3 3	7.13	0.87	8.00	1.80	0.49	2.60	4.89	0.14	0.00	0.53	-0.87	0.07	-0.81	0.81
YA3 4	7.11	0.89	8.00	1.78	0.50	2.63	4.90	0.14	0.00	0.53	-0.89	0.08	-0.81	0.81
YA3 5	6.88	1.12	8.00	0.47	0.58	4.53	5.58	0.37	0.00	0.17	-1.12	0.21	-0.91	0.91
YA3 6	6.91	1.09	8.00	0.49	0.58	4.51	5.58	0.35	0.00	0.17	-1.09	0.23	-0.87	0.87
YA3 7	6.92	1.08	8.00	0.47	0.58	4.45	5.50	0.43	0.00	0.15	-1.08	0.06	-1.02	1.02
YA3 8	6.80	1.20	8.00	0.48	0.61	4.24	5.34	0.64	0.00	0.17	-1.20	-0.24	-1.44	1.44
YA3 9	6.82	1.18	8.00	0.68	0.58	4.23	5.49	0.36	0.00	0.22	-1.18	0.24	-0.94	0.94
YA3 10	6.82	1.18	8.00	0.65	0.58	4.25	5.48	0.39	0.00	0.21	-1.18	0.18	-1.00	1.00
YA3 11	7.23	0.77	8.00	0.44	0.38	4.92	5.74	0.17	0.00	0.12	-0.77	0.31	-0.46	0.46
YA3 12	7.24	0.76	8.00	0.42	0.39	4.91	5.73	0.18	0.00	0.12	-0.76	0.27	-0.49	0.49
YA3 13	7.20	0.80	8.00	0.43	0.41	4.92	5.76	0.15	0.00	0.13	-0.80	0.36	-0.44	0.44
YA3 14	7.23	0.77	8.00	0.53	0.46	4.68	5.68	0.14	0.00	0.13	-0.77	0.36	-0.41	0.41
YA3 15	7.24	0.76	8.00	0.55	0.47	4.65	5.67	0.14	0.00	0.13	-0.76	0.36	-0.40	0.40
YA3 16	7.28	0.72	8.00	0.78	0.53	4.20	5.51	0.12	0.00	0.15	-0.72	0.34	-0.39	0.39
YA3 17	7.23	0.77	8.00	1.16	0.52	3.58	5.26	0.15	0.00	0.26	-0.77	0.20	-0.56	0.56
YA3 18	7.33	0.67	8.00	1.27	0.53	3.40	5.20	0.10	0.00	0.26	-0.67	0.21	-0.45	0.45
YA3 19	7.24	0.76	8.00	0.48	0.45	4.81	5.73	0.12	0.00	0.13	-0.76	0.40	-0.37	0.37
YA3 20	7.24	0.76	8.00	0.48	0.45	4.81	5.73	0.12	0.00	0.13	-0.76	0.39	-0.37	0.37
YA3 21	6.86	1.14	8.00	0.41	0.56	4.45	5.42	0.58	0.00	0.16	-1.14	-0.20	-1.33	1.33
YA3 22	6.99	1.01	8.00	1.27	0.54	3.36	5.17	0.20	0.00	0.44	-1.01	0.16	-0.84	0.84
YA3 23	6.91	1.09	8.00	0.61	0.59	4.19	5.40	0.44	0.00	0.20	-1.09	0.00	-1.09	1.09
YA3 24	6.89	1.11	8.00	0.64	0.50	4.26	5.40	0.47	0.00	0.22	-1.11	-0.06	-1.17	1.17
YA3 25	7.07	0.93	8.00	0.77	0.59	3.80	5.16	0.50	0.00	0.24	-0.93	-0.32	-1.25	1.25
YA3 26	6.94	1.06	8.00	0.61	0.59	3.99	5.20	0.60	0.00	0.25	-1.06	-0.40	-1.46	1.46
YA3 27	6.85	1.15	8.00	0.46	0.59	4.31	5.36	0.58	0.00	0.23	-1.15	-0.24	-1.39	1.39
YA3 28	6.89	1.11	8.00	0.62	0.55	4.21	5.38	0.49	0.00	0.18	-1.11	-0.06	-1.17	1.17
YA3 29	6.68	1.32	8.00	-0.01	0.44	5.32	5.75	0.64	0.00	0.12	-1.32	-0.08	-1.39	1.39
YA3 30	7.26	0.74	8.00	0.87	0.57	3.99	5.42	0.14	0.00	0.18	-0.74	0.29	-0.45	0.45
Media	7.05	0.95	8.00	0.77	0.52	4.12	5.41	0.30	0.00	0.23	-0.95	0.11	-0.84	0.84
Desv Est	0.19	0.19	0.00	0.48	0.07	0.74	0.27	0.19	0.00	0.13	0.19	0.22	0.37	0.37

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
YD28 1	8.00	0.00	8.00	0.30	0.09	5.03	5.42	0.35	0.00	0.08	0.00	-0.78	-0.79	0.79
YD28 2	8.08	0.00	8.08	0.27	0.06	5.21	5.55	0.10	0.00	0.04	0.33	-0.57	-0.24	0.24
YD28 3	8.13	0.00	8.13	0.23	0.07	5.15	5.46	0.12	0.00	0.03	0.51	-0.78	-0.27	0.27
YD28 4	8.13	0.00	8.13	0.23	0.07	5.14	5.45	0.12	0.00	0.03	0.52	-0.79	-0.27	0.27
YD28 5	8.04	0.00	8.04	0.26	0.06	5.32	5.63	0.10	0.00	0.04	0.17	-0.42	-0.25	0.25
YD28 6	8.11	0.00	8.11	0.23	0.05	5.24	5.52	0.10	0.00	0.04	0.43	-0.68	-0.25	0.25

YD28 7	8.13	0.00	8.13	0.22	0.05	5.20	5.47	0.11	0.00	0.04	0.54	-0.79	-0.25	0.25
YD28 8	7.94	0.06	8.00	0.15	0.06	5.50	5.72	0.19	0.00	0.03	-0.06	-0.35	-0.41	0.41
YD28 9	7.91	0.09	8.00	0.15	0.06	5.52	5.73	0.19	0.00	0.03	-0.09	-0.33	-0.41	0.41
YD28 10	7.94	0.06	8.00	0.16	0.06	5.50	5.72	0.19	0.00	0.03	-0.06	-0.33	-0.40	0.40
YD28 11	7.93	0.07	8.00	0.19	0.05	5.51	5.75	0.15	0.00	0.03	-0.07	-0.27	-0.34	0.34
YD28 12	7.92	0.08	8.00	0.18	0.05	5.52	5.75	0.16	0.00	0.03	-0.08	-0.27	-0.35	0.35
YD28 13	7.96	0.04	8.00	0.18	0.07	5.51	5.76	0.13	0.00	0.03	-0.04	-0.24	-0.28	0.28
YD28 14	7.98	0.02	8.00	0.23	0.07	5.41	5.72	0.12	0.00	0.04	-0.02	-0.26	-0.28	0.28
YD28 15	7.82	0.18	8.00	0.24	0.18	5.35	5.77	0.10	0.00	0.03	-0.18	-0.04	-0.22	0.22
YD28 16	7.82	0.18	8.00	0.23	0.17	5.39	5.79	0.10	0.00	0.03	-0.18	-0.03	-0.22	0.22
YD28 17	7.84	0.16	8.00	0.14	0.06	5.66	5.86	0.10	0.00	0.03	-0.16	-0.07	-0.23	0.23
YD28 18	7.86	0.14	8.00	0.16	0.06	5.63	5.85	0.10	0.00	0.03	-0.14	-0.09	-0.23	0.23
YD28 19	7.72	0.28	8.00	-0.02	0.05	5.73	5.76	0.35	0.00	0.03	-0.28	-0.44	-0.72	0.72
YD28 20	7.87	0.13	8.00	0.13	0.05	5.67	5.85	0.11	0.00	0.03	-0.13	-0.13	-0.26	0.26
YD28 21	8.12	0.00	8.12	0.24	0.06	5.17	5.47	0.11	0.00	0.04	0.49	-0.76	-0.27	0.27
YD28 22	8.12	0.00	8.12	0.26	0.05	5.17	5.48	0.10	0.00	0.04	0.49	-0.73	-0.24	0.24
YD28 23	8.09	0.00	8.09	0.27	0.07	5.18	5.51	0.11	0.00	0.04	0.38	-0.64	-0.26	0.26
YD28 24	8.15	0.00	8.15	0.20	0.06	5.18	5.44	0.11	0.00	0.03	0.60	-0.86	-0.26	0.26
YD28 25	8.11	0.00	8.11	0.21	0.06	5.25	5.52	0.11	0.00	0.03	0.46	-0.70	-0.25	0.25
YD28 26	8.13	0.00	8.13	0.27	0.07	5.11	5.45	0.11	0.00	0.04	0.50	-0.75	-0.25	0.25
YD28 27	7.90	0.10	8.00	0.84	0.22	4.20	5.26	0.09	0.00	0.34	-0.10	-0.42	-0.52	0.52
YD28 28	8.04	0.00	8.04	0.75	0.18	4.28	5.21	0.10	0.00	0.29	0.16	-0.65	-0.49	0.49
YD28 29	8.05	0.00	8.05	0.75	0.17	4.27	5.20	0.10	0.00	0.28	0.20	-0.68	-0.48	0.48
YD28 30	8.03	0.00	8.03	0.75	0.18	4.30	5.23	0.10	0.00	0.29	0.12	-0.61	-0.49	0.49
Media	8.00	0.05	8.05	0.28	0.09	5.21	5.58	0.13	0.00	0.07	0.14	-0.48	-0.34	0.34
Desv Est	0.12	0.07	0.06	0.21	0.05	0.42	0.20	0.06	0.00	0.09	0.28	0.27	0.15	0.15

Table S4. Structural formula of Ca-homoionized samples fitted for $O_{20}(OH)_4$

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
C5 Ca 1	7.68	0.32	8.00	0.43	0.48	4.59	5.50	0.18	0.00	0.05	-0.32	-0.08	-0.40	0.40
C5 Ca 2	7.74	0.26	8.00	0.57	0.63	4.09	5.29	0.20	0.00	0.07	-0.26	-0.22	-0.48	0.48
C5 Ca 3	7.73	0.27	8.00	0.57	0.67	4.03	5.27	0.20	0.00	0.07	-0.27	-0.22	-0.48	0.48
C5 Ca 4	7.74	0.26	8.00	0.55	0.67	4.05	5.27	0.22	0.00	0.07	-0.26	-0.24	-0.50	0.50
C5 Ca 5	7.71	0.29	8.00	0.54	0.66	4.09	5.30	0.21	0.00	0.07	-0.29	-0.20	-0.49	0.49
C5 Ca 6	7.71	0.29	8.00	0.55	0.66	4.07	5.29	0.21	0.00	0.07	-0.29	-0.20	-0.49	0.49
C5 Ca 7	7.69	0.31	8.00	0.58	0.66	4.08	5.31	0.19	0.00	0.08	-0.31	-0.15	-0.46	0.46
C5 Ca 8	7.71	0.29	8.00	0.44	0.51	4.49	5.44	0.21	0.00	0.05	-0.29	-0.17	-0.47	0.47
C5 Ca 9	7.69	0.31	8.00	0.44	0.51	4.50	5.45	0.20	0.00	0.05	-0.31	-0.15	-0.46	0.46
C5 Ca 10	7.66	0.34	8.00	0.47	0.50	4.45	5.42	0.24	0.00	0.06	-0.34	-0.20	-0.54	0.54
C5 Ca 11	7.64	0.36	8.00	0.49	0.56	4.33	5.39	0.24	0.00	0.06	-0.36	-0.18	-0.53	0.53
C5 Ca 12	7.63	0.37	8.00	0.48	0.57	4.37	5.42	0.22	0.00	0.05	-0.37	-0.12	-0.49	0.49
C5 Ca 13	7.64	0.36	8.00	0.46	0.58	4.36	5.40	0.23	0.00	0.06	-0.36	-0.15	-0.52	0.52
C5 Ca 14	7.64	0.36	8.00	0.49	0.58	4.33	5.40	0.22	0.00	0.05	-0.36	-0.14	-0.50	0.50
C5 Ca 15	7.61	0.39	8.00	0.49	0.71	4.15	5.35	0.21	0.00	0.07	-0.39	-0.11	-0.50	0.50
C5 Ca 16	7.67	0.33	8.00	0.50	0.60	4.25	5.35	0.23	0.00	0.07	-0.33	-0.20	-0.53	0.53
C5 Ca 17	7.71	0.29	8.00	0.57	0.59	4.15	5.31	0.22	0.00	0.06	-0.29	-0.21	-0.50	0.50
C5 Ca 18	7.70	0.30	8.00	0.62	0.67	3.97	5.26	0.21	0.00	0.07	-0.30	-0.19	-0.49	0.49
C5 Ca 19	7.71	0.29	8.00	0.49	0.54	4.37	5.39	0.20	0.00	0.08	-0.29	-0.19	-0.47	0.47
C5 Ca 20	7.71	0.29	8.00	0.48	0.61	4.26	5.35	0.21	0.00	0.06	-0.29	-0.20	-0.49	0.49
C5 Ca 21	7.69	0.31	8.00	0.52	0.67	4.13	5.32	0.21	0.00	0.07	-0.31	-0.18	-0.49	0.49
C5 Ca 22	7.68	0.32	8.00	0.50	0.65	4.18	5.33	0.21	0.00	0.07	-0.32	-0.18	-0.49	0.49
C5 Ca 23	7.69	0.31	8.00	0.52	0.57	4.25	5.35	0.22	0.00	0.06	-0.31	-0.20	-0.51	0.51
C5 Ca 24	7.70	0.30	8.00	0.48	0.61	4.26	5.35	0.23	0.00	0.05	-0.30	-0.21	-0.51	0.51

C5 Ca 25	7.74	0.26	8.00	0.56	0.67	4.02	5.25	0.22	0.00	0.07	-0.26	-0.25	-0.52	0.52
C5 Ca 26	7.72	0.28	8.00	0.47	0.61	4.28	5.36	0.21	0.00	0.05	-0.28	-0.20	-0.47	0.47
C5 Ca 27	7.65	0.35	8.00	0.44	0.68	4.24	5.36	0.23	0.00	0.05	-0.35	-0.16	-0.50	0.50
C5 Ca 28	7.64	0.36	8.00	0.43	0.69	4.24	5.36	0.23	0.00	0.05	-0.36	-0.15	-0.51	0.51
C5 Ca 29	7.74	0.26	8.00	0.54	0.57	4.20	5.32	0.22	0.00	0.06	-0.26	-0.25	-0.51	0.51
C5 Ca 30	7.72	0.28	8.00	0.53	0.61	4.18	5.32	0.22	0.00	0.07	-0.28	-0.23	-0.52	0.52
Media	7.69	0.31	8.00	0.51	0.61	4.23	5.35	0.22	0.00	0.06	-0.31	-0.18	-0.49	0.49
Desv Est	0.04	0.04	0.00	0.05	0.06	0.16	0.06	0.01	0.00	0.01	0.04	0.04	0.03	0.03

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
KT4 Ca 1	7.99	0.01	8.00	1.37	0.37	3.00	4.75	0.29	0.00	0.20	-0.01	-0.76	-0.77	0.77
KT4 Ca 2	8.12	0.00	8.12	1.10	0.31	3.18	4.59	0.39	0.00	0.14	0.47	-1.40	-0.93	0.93
KT4 Ca 3	8.10	0.00	8.10	1.10	0.31	3.19	4.60	0.43	0.00	0.14	0.41	-1.40	-0.99	0.99
KT4 Ca 4	8.22	0.00	8.22	0.84	0.27	3.50	4.61	0.35	0.00	0.09	0.88	-1.68	-0.80	0.80
KT4 Ca 5	7.83	0.17	8.00	0.96	0.30	3.50	4.76	0.62	0.00	0.15	-0.17	-1.22	-1.39	1.39
KT4 Ca 6	8.14	0.00	8.14	1.13	0.29	3.05	4.47	0.45	0.00	0.17	0.55	-1.63	-1.08	1.08
KT4 Ca 7	8.22	0.00	8.22	1.17	0.29	2.76	4.21	0.52	0.00	0.19	0.88	-2.12	-1.24	1.24
KT4 Ca 8	7.88	0.12	8.00	1.28	0.38	2.99	4.64	0.47	0.00	0.24	-0.12	-1.06	-1.18	1.18
KT4 Ca 9	8.23	0.00	8.23	1.19	0.29	2.96	4.44	0.27	0.00	0.21	0.90	-1.64	-0.74	0.74
KT4 Ca 10	8.19	0.00	8.19	1.36	0.34	2.67	4.37	0.28	0.00	0.24	0.76	-1.55	-0.80	0.80
KT4 Ca 11	8.09	0.00	8.09	1.40	0.37	2.73	4.50	0.33	0.00	0.21	0.36	-1.23	-0.87	0.87
KT4 Ca 12	8.17	0.00	8.17	1.22	0.30	3.06	4.57	0.26	0.00	0.15	0.67	-1.34	-0.67	0.67
KT4 Ca 13	8.10	0.00	8.10	1.18	0.29	3.23	4.70	0.28	0.00	0.16	0.39	-1.12	-0.73	0.73
KT4 Ca 14	8.11	0.00	8.11	1.07	0.29	3.38	4.74	0.29	0.00	0.13	0.45	-1.15	-0.70	0.70
KT4 Ca 15	8.08	0.00	8.08	1.10	0.29	3.39	4.78	0.29	0.00	0.13	0.34	-1.05	-0.71	0.71
KT4 Ca 16	8.24	0.00	8.24	0.96	0.25	3.38	4.59	0.28	0.00	0.10	0.95	-1.60	-0.65	0.65
KT4 Ca 17	8.12	0.00	8.12	1.27	0.33	2.95	4.56	0.31	0.00	0.18	0.48	-1.27	-0.79	0.79
KT4 Ca 18	8.08	0.00	8.08	1.24	0.32	3.12	4.68	0.29	0.00	0.17	0.33	-1.07	-0.75	0.75
KT4 Ca 19	8.11	0.00	8.11	1.24	0.31	3.09	4.63	0.28	0.00	0.18	0.45	-1.19	-0.74	0.74
KT4 Ca 20	8.23	0.00	8.23	1.22	0.31	2.86	4.39	0.29	0.00	0.17	0.93	-1.68	-0.75	0.75
KT4 Ca 21	8.09	0.00	8.09	1.26	0.35	3.03	4.65	0.28	0.00	0.17	0.36	-1.08	-0.72	0.72
KT4 Ca 22	8.22	0.00	8.22	1.08	0.29	2.67	4.03	0.76	0.00	0.15	0.90	-2.57	-1.67	1.67
KT4 Ca 23	7.83	0.17	8.00	0.81	0.27	3.87	4.95	0.53	0.00	0.13	-0.17	-1.01	-1.19	1.19
KT4 Ca 24	8.05	0.00	8.05	0.80	0.24	3.85	4.89	0.45	0.00	0.09	0.20	-1.19	-0.99	0.99
KT4 Ca 25	8.07	0.00	8.07	0.80	0.24	3.80	4.84	0.46	0.00	0.09	0.28	-1.28	-1.00	1.00
KT4 Ca 26	7.75	0.25	8.00	0.84	0.29	4.02	5.14	0.35	0.00	0.15	-0.25	-0.60	-0.84	0.84
KT4 Ca 27	7.83	0.17	8.00	0.96	0.28	3.49	4.74	0.64	0.00	0.16	-0.17	-1.28	-1.45	1.45
KT4 Ca 28	7.69	0.31	8.00	0.85	0.31	3.68	4.85	0.64	0.00	0.19	-0.31	-1.15	-1.46	1.46
KT4 Ca 29	8.17	0.00	8.17	1.23	0.29	2.98	4.51	0.28	0.00	0.19	0.70	-1.45	-0.76	0.76
KT4 Ca 30	7.91	0.09	8.00	1.54	0.30	2.90	4.74	0.24	0.00	0.31	-0.09	-0.69	-0.78	0.78
Media	8.06	0.04	8.11	1.12	0.30	3.21	4.63	0.39	0.00	0.17	0.38	-1.32	-0.94	0.94
Desv Est	0.15	0.09	0.08	0.20	0.04	0.37	0.22	0.14	0.00	0.05	0.39	0.40	0.27	0.27

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
YA3 Ca 1	8.26	0.00	8.26	0.80	0.40	2.78	3.98	0.86	0.00	0.08	1.04	-2.84	-1.80	1.80
YA3 Ca 2	8.27	0.00	8.27	0.81	0.40	2.75	3.96	0.85	0.00	0.08	1.08	-2.87	-1.79	1.78
YA3 Ca 3	8.03	0.00	8.03	0.86	0.38	2.86	4.10	1.17	0.00	0.09	0.12	-2.56	-2.43	2.43
YA3 Ca 4	8.01	0.00	8.01	0.85	0.38	2.87	4.11	1.20	0.00	0.08	0.05	-2.54	-2.49	2.49
YA3 Ca 5	8.19	0.00	8.19	0.97	0.42	2.73	4.12	0.75	0.00	0.10	0.77	-2.37	-1.60	1.60
YA3 Ca 6	7.49	0.51	8.00	0.65	0.55	3.22	4.42	1.16	0.00	0.15	-0.51	-1.96	-2.47	2.47
YA3 Ca 7	7.55	0.45	8.00	0.50	0.47	3.10	4.07	1.60	0.00	0.15	-0.45	-2.90	-3.35	3.35
YA3 Ca 8	7.50	0.50	8.00	0.58	0.51	3.22	4.31	1.34	0.00	0.12	-0.50	-2.30	-2.80	2.80
YA3 Ca 9	8.00	0.00	8.00	0.73	0.31	2.89	3.93	1.52	0.00	0.07	0.00	-3.10	-3.10	3.10
YA3 Ca 10	8.19	0.00	8.19	0.82	0.30	2.74	3.86	1.16	0.00	0.08	0.76	-3.16	-2.40	2.40

YA3 Ca 11	8.57	0.00	8.57	0.99	0.32	2.49	3.80	0.36	0.00	0.10	2.27	-3.10	-0.83	0.83
YA3 Ca 12	8.10	0.00	8.10	0.93	0.41	2.98	4.32	0.77	0.00	0.08	0.39	-2.02	-1.62	1.62
YA3 Ca 13	7.95	0.05	8.00	1.02	0.39	3.16	4.56	0.71	0.00	0.10	-0.05	-1.47	-1.52	1.52
YA3 Ca 14	8.00	0.00	8.00	0.94	0.31	3.13	4.38	0.95	0.00	0.09	0.00	-1.99	-1.99	1.99
YA3 Ca 15	8.22	0.00	8.22	0.91	0.37	2.65	3.93	0.95	0.00	0.08	0.89	-2.86	-1.98	1.98
YA3 Ca 16	7.71	0.29	8.00	0.48	0.27	3.66	4.42	1.32	0.00	0.07	-0.29	-2.41	-2.71	2.71
YA3 Ca 17	8.13	0.00	8.13	0.85	0.29	3.07	4.21	0.91	0.00	0.07	0.54	-2.43	-1.89	1.89
YA3 Ca 18	7.99	0.01	8.00	0.88	0.29	3.10	4.26	1.12	0.00	0.08	-0.01	-2.32	-2.32	2.32
YA3 Ca 19	8.12	0.00	8.12	0.92	0.31	2.97	4.20	0.91	0.00	0.09	0.47	-2.38	-1.91	1.91
YA3 Ca 20	8.18	0.00	8.18	1.12	0.38	2.87	4.38	0.46	0.00	0.12	0.71	-1.74	-1.04	1.04
YA3 Ca 21	8.26	0.00	8.26	0.82	0.32	3.01	4.15	0.72	0.00	0.07	1.06	-2.57	-1.51	1.51
YA3 Ca 22	8.37	0.00	8.37	0.90	0.32	2.69	3.91	0.69	0.00	0.09	1.48	-2.95	-1.47	1.47
YA3 Ca 23	7.78	0.22	8.00	1.01	0.59	2.99	4.59	0.65	0.00	0.12	-0.22	-1.20	-1.42	1.42
YA3 Ca 24	7.82	0.18	8.00	1.03	0.60	2.96	4.59	0.63	0.00	0.12	-0.18	-1.19	-1.37	1.37
YA3 Ca 25	8.13	0.00	8.13	0.98	0.37	2.94	4.28	0.74	0.00	0.09	0.51	-2.09	-1.58	1.58
YA3 Ca 26	8.30	0.00	8.30	0.79	0.26	2.70	3.75	1.07	0.00	0.09	1.21	-3.44	-2.23	2.23
YA3 Ca 27	8.20	0.00	8.20	0.75	0.30	3.02	4.07	0.96	0.00	0.07	0.82	-2.81	-1.99	1.99
YA3 Ca 28	8.18	0.00	8.18	1.04	0.36	2.90	4.30	0.60	0.00	0.09	0.70	-2.00	-1.30	1.30
YA3 Ca 29	8.22	0.00	8.22	0.74	0.25	2.82	3.82	1.21	0.00	0.07	0.89	-3.38	-2.48	2.48
Media	8.06	0.08	8.14	0.85	0.37	2.94	4.16	0.94	0.00	0.09	0.47	-2.45	-1.98	1.98
Desv Est	0.26	0.16	0.14	0.16	0.09	0.23	0.24	0.30	0.00	0.02	0.66	0.60	0.60	0.60

	Si	Al	Σ IV	Al	Fe3+	Mg	Σ VI	Ca	Na	K	QIV	QVI	QL	QI
YD28 Ca 1	8.28	0.00	8.28	0.23	0.12	4.65	5.00	0.25	0.00	0.03	1.13	-1.66	-0.53	0.53
YD28 Ca 2	8.27	0.00	8.27	0.21	0.06	4.81	5.08	0.24	0.00	0.03	1.06	-1.56	-0.50	0.50
YD28 Ca 3	8.27	0.00	8.27	0.19	0.06	4.81	5.06	0.24	0.00	0.03	1.10	-1.61	-0.51	0.51
YD28 Ca 4	8.28	0.00	8.28	0.22	0.04	4.82	5.07	0.23	0.00	0.03	1.11	-1.60	-0.49	0.49
YD28 Ca 5	8.30	0.00	8.30	0.22	0.04	4.75	5.01	0.23	0.00	0.03	1.22	-1.71	-0.50	0.50
YD28 Ca 6	8.19	0.00	8.19	0.22	0.05	4.96	5.22	0.24	0.00	0.03	0.77	-1.28	-0.51	0.51
YD28 Ca 7	8.27	0.00	8.27	0.19	0.04	4.88	5.10	0.23	0.00	0.03	1.09	-1.58	-0.49	0.49
YD28 Ca 8	8.24	0.00	8.24	0.21	0.04	4.90	5.14	0.23	0.00	0.03	0.98	-1.48	-0.50	0.50
YD28 Ca 9	8.05	0.00	8.05	0.51	0.05	4.79	5.34	0.24	0.00	0.09	0.20	-0.76	-0.56	0.56
YD28 Ca 10	8.21	0.00	8.21	0.43	0.05	4.61	5.08	0.22	0.00	0.07	0.84	-1.36	-0.52	0.52
YD28 Ca 11	8.22	0.00	8.22	0.21	0.04	4.93	5.18	0.24	0.00	0.03	0.88	-1.38	-0.50	0.50
YD28 Ca 12	8.05	0.00	8.05	0.52	0.05	4.78	5.34	0.23	0.00	0.08	0.21	-0.76	-0.55	0.55
YD28 Ca 13	8.36	0.00	8.36	0.21	0.04	4.71	4.96	0.18	0.00	0.02	1.44	-1.83	-0.38	0.38
YD28 Ca 14	8.31	0.00	8.31	0.23	0.04	4.76	5.03	0.19	0.00	0.02	1.26	-1.66	-0.41	0.41
YD28 Ca 15	8.20	0.00	8.20	0.28	0.05	4.88	5.21	0.21	0.00	0.03	0.80	-1.24	-0.44	0.44
YD28 Ca 16	8.24	0.00	8.24	0.26	0.05	4.83	5.14	0.21	0.00	0.02	0.96	-1.40	-0.44	0.44
YD28 Ca 17	8.23	0.00	8.23	0.27	0.05	4.83	5.15	0.21	0.00	0.03	0.94	-1.37	-0.44	0.44
YD28 Ca 18	8.37	0.00	8.37	0.18	0.12	4.61	4.91	0.19	0.00	0.01	1.50	-1.89	-0.40	0.40
YD28 Ca 19	8.21	0.00	8.21	0.28	0.05	4.87	5.20	0.21	0.00	0.03	0.83	-1.28	-0.44	0.44
YD28 Ca 20	8.33	0.00	8.33	0.22	0.04	4.74	5.00	0.19	0.00	0.02	1.33	-1.73	-0.40	0.40
YD28 Ca 21	8.32	0.00	8.32	0.21	0.04	4.79	5.04	0.19	0.00	0.02	1.27	-1.68	-0.40	0.40
YD28 Ca 22	8.34	0.00	8.34	0.21	0.04	4.72	4.97	0.21	0.00	0.02	1.38	-1.82	-0.44	0.44
YD28 Ca 23	8.25	0.00	8.25	0.31	0.05	4.74	5.10	0.20	0.00	0.03	1.00	-1.44	-0.44	0.44
YD28 Ca 24	8.24	0.00	8.24	0.52	0.05	4.44	5.02	0.18	0.00	0.07	0.96	-1.39	-0.43	0.43
YD28 Ca 25	8.26	0.00	8.26	0.22	0.04	4.85	5.12	0.23	0.00	0.02	1.03	-1.51	-0.48	0.48
YD28 Ca 26	8.27	0.00	8.27	0.22	0.04	4.83	5.09	0.23	0.00	0.02	1.07	-1.55	-0.48	0.48
Media	8.25	0.00	8.25	0.27	0.05	4.78	5.10	0.22	0.00	0.03	1.01	-1.48	-0.47	0.47
Desv Est	0.08	0.00	0.08	0.10	0.02	0.11	0.11	0.02	0.00	0.02	0.31	0.28	0.05	0.05