

**Bacterial diversity in bentonites, engineered barrier for deep geological disposal of radioactive wastes**

**Microbial Ecology**

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**Online Resource 2** Chemical composition of the studied bentonite samples, determined by ICP-MS

Element (ppm)	BI-2	BI-3	BII-2	BIV-2	BIV-3
Li	<b>48.92</b>	<b>48.24</b>	17.11	20.11	23.32
Be	3.31	3.32	1.61	6.27	7.84
Sc	18.44	10.12	19.90	3.00	4.12
V	26.90	11.01	<b>154.05</b>	6.07	10.74
Cr	10.44	6.81	21.80	5.48	7.50
Co	4.18	1.72	0.76	0.82	1.36
Ni	11.55	7.91	1.58	3.39	2.44
Cu	21.10	7.85	7.15	1.67	2.36
Zn	73.35	46.64	38.03	42.56	56.60
Ga	20.19	18.40	18.87	18.30	23.53
Rb	64.72	34.10	<b>220.49</b>	36.03	18.23
Sr	175.03	171.11	<b>983.71</b>	103.67	87.77
Y	24.75	32.06	5.71	19.75	34.92
Zr	<b>146.40</b>	<b>137.18</b>	66.32	81.24	99.66
Nb	8.77	7.15	3.83	8.69	11.38
Mo	0.27	0.20	2.11	0.26	0.32
Sn	8.83	8.69	4.44	7.31	8.68
Cs	7.67	3.74	5.73	7.47	2.51
Ba	132.70	231.82	384.75	<b>684.34</b>	196.78
La	28.82	28.69	53.75	29.93	<b>88.29</b>
Ce	63.73	55.88	<b>172.21</b>	55.73	97.96
Pr	7.08	6.64	24.24	6.48	18.52
Nd	26.92	24.96	59.46	22.52	63.35
Sm	5.81	5.37	2.54	4.09	11.04
Eu	0.82	0.87	0.35	0.70	<b>2.01</b>
Gd	5.14	5.01	1.64	3.20	7.80
Tb	0.83	0.91	0.26	0.51	1.09
Dy	4.74	5.25	0.92	2.97	5.96
Ho	0.93	1.15	0.22	0.63	1.14
Er	2.33	3.21	0.64	1.81	3.11
Tm	0.37	0.52	0.11	0.31	0.51
Yb	2.28	3.21	0.74	1.98	3.12
Lu	0.33	0.52	0.13	0.35	0.49
Hf	4.80	4.53	2.18	2.91	3.50
Ta	1.05	1.04	0.41	0.93	1.14
Tl	0.16	0.10	14.00	1.10	1.38
Pb	33.98	20.39	54.74	49.43	62.33
Th	14.97	16.16	7.52	13.26	20.21
U	2.31	2.05	2.79	0.78	0.27