

Table S1. Physio-chemical characteristics of soil and water in sampled thermal springs in Iran.

Hot spring	Province	Latitude & longitude	Water ²²⁶ Ra Bq/l	Soil ²²⁶ Ra Bq/kg	Mg (mg/l)	K (mg/l)	Na (mg/l)	Ca (mg/l)	Cond. (μS/cm)	pH	T °C
Abe Siah	Mazandaran. Ramsar city	36°89'53" N 50°66'23" E	130 ± 0.2	4012 ± 316	190	168.5	1.10	34	850	6.59	28
Talesh Mahalleh	Mazandaran. Ramsar city	36°89'90" N 50°67'49" E	18.14 ±0.1	13000±410	104	30.5	0.18	255	370	7.17	27
Saddat Mahalleh	Mazandaran. Ramsar city	36°53'42" N 50°41'30" E	1.77±0.2	3630±320	220	190	1.10	35	900	7	35
Khak Sefid	Mazandaran. Ramsar city	36°89'30" N 50°67'47" E	16.50±0.1	3620±350	980	39.5	0.50	430	340	7.06	32
Hakim	Markazy, Mahallat city	34°00'33" N 50°33'06" E	0.1±0.01	157±14	226	6.50	139	960	2340	7.97	34
Shafa	Markazy, Mahallat city	34°00'41" N 50°32'46" E	1.30±0.1	3000±240	216	6.30	139	960	2360	7.94	50