MINERALNI BANI MUNICIPALITY

MINERAL SPRINGS

Chemical composition and healing properties of the mineral water



The mineral water - the most valuable natural wealth of the region - is hyperthermal - 54 - 59°C and is unique in its chemical composition and healing properties.

The National Resort Mineralni Bani is profiled for the treatment of diseases of the peripheral arteries of organic and functional type - Burger's disease, endarthritis, obliterating atherosclerosis, Raynaud's disease, conditions after thrombophlebitis, autonomic and diabetic angiopathies, scleroderma, etc.

Except them, the following diseases are treated with excellent results, too:

- Musculoskeletal system rheumatism, arthritis, Sokolski-Buyo disease
- Joint diseases arthrosis, conditions after bone fractures, polyarthritis, Bechterew's disease
- Peripheral nervous system radiculitis, polyneuritis, sciatica, lumbago, plexitis, discopathy and discal hernia
- Gynecological diseases inflammatory processes of the ovaries, infertility
- Skin diseases eczema, psoriasis vulgaris, dermatitis, keratoderma, urticaria



The mineral water is also used

for drinking when there is sand in the kidneys, chronic gastritis and colitis, peptic ulcer disease, gastrointestinal diseases, inflammation of the bile and liver.

Suitable places for hydrotherapy and balneotherapy are Balneohotel "Bozhur" at PRO EAD, SBR "Ailin" and Public bath with mineral water.

Except them many other accommodations offer relaxing mineral water treatments.

CHEMICAL COMPOSITION OF THE MINERAL WATER

In one liter of water are contained:

Drilling 2VP

1. Аниони	mg/l	eq%
F	4,05	0,961
Cl	62,80	7,984
SO ₄ ²⁻	857,16	80,423
CO_3^{2-}	< 6,00	0,000
HCO ₃	136,68	10,098
HSiO ₃	-	-
NO ₃	7,35	0,534
NO_2^-	< 0,05	0,000
Сума:	Сума: 1068,04	
Сух остатък і	три 180°C	1517 mg/l
Сух остатък при 260°С		1489 mg/l
Електропроводимост		2030 μS/cm
pH		7,27

2. Катиони	mg/l	e	q%
NH_4^+	< 0,05	0,	000
Li ⁺	0,10	0,	063
Na ⁺	317,30	58,	933
K^+	20,18	2,	204
Ca ²⁺	176,35	37,	576
Mg^{2+}	3,00	1,	056
Fe-общо(³⁺)	0,49	0,	037
Mn ²⁺	0,84	0,	131
Сума:	518,27	~1	00,00
H ₂ SiO ₃		80,41	mg/l
Обща минерализаци	ия	1667	mg/l
Въглероден диокси	д	22	mg/l
Сероводород		336,26	mg/l
Дебит		2	4,1 l/s
Температура		5	7,5 °C

Drilling 3VP

1. Аниони	mg/l	eq%	2. Катиони	mg/l	e	q%
F	3,96	0,949	$\mathrm{NH_4}^+$	< 0,05	0,	,000
CI ⁻	63,82	8,196	Li ⁺	0,14	0,	085
SO ₄ ²⁻	839,87	79,601	Na ⁺	318,70	58,	387
CO ₃ ²⁻	< 6,00	0,000	K ⁺	21,84	2,	353
HCO ₃	144,00	10,747	Ca ²⁺	180,36	37,	907
HSiO ₃	-	21-4	Mg ²⁺	3,16	1,	095
NO ₃	6,90	0,507	Fe-общо(³⁺)	0,49	0,	037
NO ₂	< 0.05	0.000	Mn ²⁺	0,89	0,	136
Сума:	1058,55	~100,00	Сума:	525,58	3 ~1	00,00
Сух остатьк і	при 180°C	1492 mg/l	H ₂ SiO ₃		74,70	mg/l
Сух остатък і		1460 mg/l	Обща минерали	зация	1659	mg/l
Електропрово		2060 μS/cm	Въглероден дио	ксид	20,68	mg/l
pH		7,23	Сероводород		265,88	mg/l
			Дебит		6	,1 l/s
			Температура		5	3.5 °C

Drilling 4VP

1. Аниони	mg/l	eq%	2. Катиони	mg/l	e	q%
F-	4,01	0,972	$\mathrm{NH_4}^+$	< 0,05	0,0	000
CI ⁻	60,99	7,924	Li ⁺	0,14	0,	082
SO_4^{2-}	841,11	80,647	Na ⁺	322,50	58,	780
CO ₃ ²⁻	< 6,00	0,000	K ⁺	20,52	2,	199
HCO ₃	130,58	9,859	Ca ²⁺	180,36	37,	712
HSiO ₃	-	-	Mg^{2+}	3,10	1,0	069
NO ₃	8,05	0,598	Fe-общо(³⁺)	0,41	0,0	031
NO ₂	< 0.05	0.000	Mn ²⁺	0,83	0,	126
Сума:	1044,74	~100,00	Сума:	527,86	6 ~10	00,00
Сух остатък г	при 180°C	1514 mg/l	H ₂ SiO ₃		81,01	mg/l
Сух остатък г		1474 mg/l	Обща минерали	зация	1654	mg/l
Електропрово		2030 µS/cm	Въглероден дио	ксид	21,56	mg/l
pH		7,27	Сероводород		344,08	mg/l
			Дебит		2	4,1 1/s
			Температура		5	6,6 °C

1. Аниони	mg/l	eq%	2. Катиони
F	4,08	0,961	$\mathrm{NH_4}^+$
CI ⁻	60,28	7,608	Li ⁺
SO ₄ ²⁻	868,27	80,873	Na ⁺
CO_3^{2-}	< 6,00	0,000	K ⁺
HCO ₃	136,68	10,025	Ca ²⁺
HSiO ₃	-	_	Mg^{2+}
NO ₃	7,40	0,534	Fe-общо(³⁺)
NO_2^-	< 0.05	0,000	Mn ²⁺
Сума:	1076,71	~100,00	Сума:
Сух остатък і	при 180°C	1549 mg/l	H ₂ SiO ₃
Сух остатък і		1510 mg/l	Обща минерал
Електропрово		2040 μS/cm	Въглероден ди
pH		7,25	Сероводород
			Дебит

2. Катиони	mg/l	e	q%
NH_4^+	< 0,05	0,	000
Li ⁺	0,13	0,	078
Na ⁺	328,00	59,	232
K ⁺	20,40	2,	166
Ca ²⁺	180,36	37,	365
Mg^{2+}	2,96	1,	011
Fe-общо(³⁺)	0,38	0,	028
Mn ²⁺	0,80	0,	120
Сума:	533,03	~1	00,00
H ₂ SiO ₃		80,41	mg/l
Обща минерализация		1690	mg/l
Въглероден диоксид		22,90	mg/l
Сероводород		320,60	mg/l
Дебит		1	,33 1/s
Температура		57,6 °C	