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TESTING

TESTING CENTER
East Kazakhstan branch "National Center for Expertise and Certification" Joint-Stock Company,
Certificate of Accreditation No. KZ.T.07.0927
from December 30, 2020 to December 30, 2025
070004, Ust-Kamenogorsk city, Kazakhstan street, 5,
tel. 8(7232)254919

TEST REPORT No. 1219 dated March 7, 2024

Client	"Arnna Minerals" LLP
Address	The Republic of Kazakhstan, East Kazakhstan region, Zaisan district, Daiyr rural district, Daiyr village, building No. 1.
Name of product	Natural Sparkling Drinking Water, trademark "MIGLIOR" PERFECTION SPARKLING, packed in glass bottles with capacity of 0.75 liters.
Country of origin	Kazakhstan
Regulatory documentation for products	Technical Regulation of Customs Union 022/2011, Technical Regulations of the Eurasian Economic Union 044/2017
Date of sample receipt	February 23, 2024
Date of test	February 23, 2024 – March 6, 2024
Date of issue of the report	March 7, 2024
Test type	For conformity assessment
Basis for testing	Request dated February 23, 2024

Temperature, °C 20-22 Relative moisture, % 51-68 Atmospheric absolute pressure, mm Hg 743-754

No.	Name of indicators, units of measure	Regulatory documentation for test methods	Standards according to regulatory documentation	Actual performance
1	Organoleptic and physical and chemical indicators:		Permissible level	
	odor at 20 °C, points, max	GOST 3351-74	0	0
	odor at heating 60 °C, points, max.	GOST 3351-74	1	0
	turbidity, mg/dm3, max.	GOST 3351-74	1	0
	off-flavour, points, max.	GOST 3351-74	0	0
	color, degrees, max.	GOST 31868-2012	5	0
	Hydrogen indicator (pH) within	GOST 26449.1-85	4,5-9,5	5,2
	Suspended substances, mg/dm3	GOST 26449.1-85		less than 0,5
	Carbonates (CO_3), mg/dm3	GOST 26449.1-85		less than 8,0
	Hydrocarbonates (HCO_3), mg/dm3	GOST 26449.1-85		122,0
	Calcium (Ca), mg/dm3	GOST 26449.1-85		26,05
	Magnesium (Mg), mg/dm3	GOST 26449.1-85		7,30
	Potassium (K), mg/dm3	GOST 31869-2012		2,3
	Indicators of salt and gas composition:			
	total mineralization, mg/dm3	GOST 18164-72	50-1000	162
	nitrates (NO_3), mg/dm3, max	GOST 33045-2014	20	1,44
	sulphates (SO_4), mg/dm3, max	GOST 31940-2012	250	28,8
	phosphates (PO_4), mg/dm3, max	GOST 18309-2014	3,5	less than 0,005
	fluorides (F), mg/dm3, max	GOST 23268.18-78	1,5	0,26
	chlorides (CL), mg/dm3, max	GOST 4245-72	250	18,47
	cyanides (CN), mg/dm3, max	GOST 31863-2012	0,035	less than 0,01
	Toxic Metals:			
	ferrum (Fe), mg/dm3, max	GOST 4011-72	0,3	less than 0,05
	cadmium (Cd), mg/dm3, max	GOST 31870-2012	0,001	less than 0,0002
	cobalt (Co), mg/dm3, max	Standard of the Republic of Kazakhstan GOST P 51309-2003	0,1	less than 0,001
	lithium (Li), mg/dm3, max	GOST 31869-2012	0,03	less than 0,015
	manganese (Mn), mg/dm3, max	GOST 4974-2014	0,05	less than 0,01
	cuprum (Cu), mg/dm3, max	GOST 4388-72	1,0	less than 0,002
	molybdenum (Mo), mg/dm3, max	GOST 18308-72	0,07	less than 0,0025
	sodium (Na), mg/dm3, max	GOST 31869-2012	200	11,1

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The protocol applies only to samples subjected to testing.

No.	Name of indicators, units of measure	Regulatory documentation for test methods	Standards according to regulatory documentation	Actual performance
	nickel (Ni), mg/dm3, max	GOST 31870-2012	0,02	less than 0,005
	hydrargyrum (Hg), mg/dm3, max	Standard of the Republic of Kazakhstan GOST P 51212-2003	0,0005	less than 0,0001
	selenium (Se), mg/dm3, max	GOST 19413-89	0,01	less than 0,002
	argentum (Ag), mg/dm3, max	GOST 18293-72	0,025	less than 0,0001
	lead (Pb), mg/dm3, max	GOST 18293-72	0,01	less than 0,0005
	strontium (Sr), mg/dm3, max	GOST 31869-2012	7,0	less than 0,5
	antimony (Sb), mg/dm3, max	GOST 31870-2012	0,005	less than 0,005
	general chrome (Cr), mg/dm3, max	GOST 31870-2012	0,05	less than 0,001
	zinc (Zn), mg/dm3, max	GOST 31870-2012	5,0	less than 0,005
	aluminum (Al), mg/dm3, max	GOST 18165-2014	0,2	less than 0,01
	barium (Ba), mg/dm3, max	GOST 31869-2012	0,7	less than 0,05
	Toxic nonmetals:			
	borum (B), mg/dm3, max	Standard of the Republic of Kazakhstan GOST P 51210-2003	1,0	less than 0,05
	arsenic (As), mg/dm3, max	GOST 4152-89	0,01	less than 0,005
	ozone, mg/dm3, max	GOST 18301-72	it is not allowed (<0,1)	non detected
	Halogens:			
	bromates, mg/dm3, max	GOST 23268.15-78	0,01	non detected
	chlorine residual bound, mg/dm3, max	GOST 18190-72	0,1	non detected
	chlorine residual free, mg/dm3, max	GOST 18190-72	0,05	non detected
	Organic pollution indicators:			
	benz(a)pyrene, mcg/dm3, max	GOST 31860-2012	0,005	non detected
	bromodichloromethane, mcg/dm3, max	GOST 31951-2012	10,0	non detected
	bromoform, mcg/dm3, max	GOST 31951-2012	20,0	non detected
	hexachlorobenzene, mcg/dm3, max	GOST 31858-2012	0,2	non detected
	heptachlor, mcg/dm3, max	GOST 31858-2012	0,05	non detected
	Dichlorodiphenyltrichloroethane (sum of isomers), mcg/dm3, max	GOST 31858-2012	0,5	non detected
	dibromochloromethane, mcg/dm3, max	GOST 31951-2012	10,0	non detected
	lindane (gamma-isomer of hexachlorocyclohexane), mcg/dm3, max	GOST 31858-2012	0,5	non detected
	petroleum derivatives (total), mg/dm3, max	Environmental Regulatory document Federated 14.1:2:4.128-98	0,05	less than 0,005
	organic carbon, mg/dm3, max	GOST 3195 8-2012	10,0	less than 1,0
	surface-active substances (SUS) anionactive, mg/dm3, max	Standard of The Republic of Kazakhstan GOST P 51211-2003	0,05	less than 0,025
	2,4-D, mcg/dm3, max	GOST 31941-2012	1,0	non detected
	ammonia and ammonium ion, mg/dm3, max	GOST 33045-2014	0,1	less than 0,1
	atrazine, mcg/dm3, max	Environmental Regulatory document Federated 14.1:2:4.205-04	0,2	non detected

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	nitrites (NO2), mg/dm3, max	GOST 33045-2014	0,5	less than 0,003
	simazine, mcg/dm3, max	Environmental Regulatory document Federated 14.1:2:4.205-04	0,2	non detected
	volatile phenols, mcg/dm3, max	GOST 26449.1-85	0,5	less than 0,001
	formaldehyde, mcg/dm3, max	Environmental Regulatory document Federated 14.1:2:4.120-96	25	less than 0,02
	chloroform, mcg/dm3, max	GOST 31951-2012	60	non detected
	Carbon tetrachloride, mcg/dm3, max	GOST 31951-2012	2,0	non detected
	Complex toxicity indicators:			
	by the sum of NO2 and NO3 units		<1	0,02
	by the sum of trihalomethanes		<1	0
	permanganate oxidizability (NO2), mg O_2/l, max	GOST 23268.12-78	3	1,5
	Composite index:			

CONTINUATION OF TEST REPORT No. 1219 dated March 7, 2024.

No.	Name of indicators, units of measure	Regulatory documentation for test methods	Standards according to regulatory	Actual performance
	Total hardness, mg-eq/l, max	GOST31954-2012	7	0,3
	Free carbon dioxide, %, max.	GOST 23268.2-91	0,2	0,35
	Indicators of radiation safety:			
	specific total alpha activity, Bq/kg, max.	GOST31864-2012	0,2	0,02+/-0,01
	specific total beta-activity, Bq/kg, max.	Standard of The Republic of Kazakhstan ISO 9697-2017	1,0	0,03+/-0,01
	Specific activity of Cesium-137, Bq/kg	GOST 32161-2013	-	0,3+/-0,02
	Indicators of microbiological safety:			
	total bacterial count at 22 °C, CFU/cm3, max.	GOST ISO 6222-2018	<100	less than 10 CFU/cm3
	total bacterial count part at 37 °C, CFU/cm3, max.	GOST 18963-73	<20	less than 10 CFU/cm3
	total bacterial count part at 37 °C, CFU/cm3, max.	GOST 18963-73	<100	less than 10 CFU/cm3
	Escherichia (E. coli), CFU/250cm^3	GOST 31955.1-2013	absence	non detected
	Coliform bacteria, CFU/250cm^3	GOST 31955.1-2013	absence	non detected
	Enterococci (fecal streptococci), CFU/250cm3	Standard of The Republic of Kazakhstan 1884-2-2009	absence	non detected
	Pseudomonas aeruginosa, CFU/250cm^3	GOST ISO 16266-2018	absence	non detected
	Spores of sulfite-reducing clostridia, CFU/100 cm^3	Standards of the Republic of Belarus ISO 6461-2-2016	-	non detected
	Marking	Technical Regulation of Customs Union 022/2011, Technical Regulations of the Eurasian Economic Union 044/2017	Must comply	Marking is available and corresponds, including date of manufacture - September 7, 2023, shelf life - 12 months.

End of report

Executives:

Deputy Head of the Test Center	/signed/	A.B. Snegiryov
Leading specialist	/signed/	E.T. Demissenova
Leading specialist	/signed/	R.Sh. Nukeshtayeva
Specialist of 1 category	/signed/	A.A. Golik
Head of the Test Center	/signed/	A.K. Utesheva

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