

Number:SZFXSYS-2022-1032



CERTIFICATE OF PROFICIENCY TESTING

Institute/Organization: Testing Laboratory of Water Quality of the Syktyvkar
Vodokal Open Joint Stock Comtany

Lab code: 1032

This certificate is hereby issued to recognize that your data submitted for the
“Inter-laboratory Comparison on Arsenic and Ammonia Nitrogen Determination
in Water (2022)”, in which Arsenic and Ammonia Nitrogen are evaluated as
satisfied results (Approved as CNCA [2022] 31).

Water Quality Analysis Laboratory, RCEES, CAS

Issued Date: 01 June 2023



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Notice on the study results for the “Inter-laboratory Comparison on Arsenic and Ammonia Nitrogen Determination in Water (2022)”

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The testing results reported by Lab1032 and your study results on the “Inter-laboratory Comparison on Arsenic and Ammonia Nitrogen Determination in Water (2022)” are shown as follows:

Item	Sample code	Testing Result	Assigned Value	Unit	Standard Deviation for Proficiency Assessment	Z - scores	Testing method
Arsenic	S1032a	5.31	4.91	µg/L	0.281	1.42	Federal environmental regulations (HDP F) 14.1:2:4.223-06 «Method of measuring the mass concentration of arsenic by inversion voltammetry on TA type analyzers»
	S1032b	4.57	4.91	µg/L	0.268	-1.27	
Ammonia Nitrogen	A1032a	0.303	0.308	mg/L	0.0197	-0.25	Federal environmental regulations (HDP F) 14.1:2:3.1-95 «Method of measuring the mass concentration of ammonium ions in natural and waste water by photometric method with Nessler reagent»
	A1032b	0.300	0.308	mg/L	0.0197	-0.41	

Notes: $|z| \leq 2.0$ means a satisfied result; $2.0 < |z| < 3.0$ means a problematic result, which is marked with * in the table; $|z| \geq 3.0$ means an unsatisfied result, which is marked with § in the table. The evaluation is “unsatisfactory”, when any result in the paired sample gets a $|z| \geq 3.0$. Retesting results are marked with # in the table.

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