

V.O. Abramov <sup>1</sup>, A.V. Abramova <sup>1,\*</sup>, V.M. Bayazitov <sup>1</sup>, S.V. Kameneva <sup>1</sup>, V.O. Veselova <sup>1</sup>, D.A. Kozlov <sup>1</sup>, M.M. Soz-  
arukova <sup>1</sup>, A.E. Baranchikov <sup>1</sup>, I.S. Fedulov <sup>1</sup>, R.V. Nikonov <sup>1</sup> and G. Cravotto <sup>2,\*</sup>

1. Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Leninsky  
Prospekt 31, 119991, Moscow, Russia.

2. Department of Drug Science and Technology, University of Turin, Via. P. Giuria 9, 10125, Turin, Italy.

**Table S1.** Composition of municipal water used for the experiments (the methods used to analyze water comply with the national environmental protection regulations and state standards of the Russian Federation for statistical methods of water quality control).

Parameter	Unit of measurement	Result	Margin of error	Quality standard
pH	pH units	7,9	±0,2	6,0-9,0
Hardness	mg-equ/dm <sup>3</sup>	3,6	±0,5	7,0
Al	mg/L (mg/dm <sup>3</sup> )	<0,04	-	0,2
Fe	mg/L (mg/dm <sup>3</sup> )	0,52	±0,10	0,3
Cd	mg/L (mg/dm <sup>3</sup> )	0,000042	±0,000025	0,001
Ca	mg/L (mg/dm <sup>3</sup> )	53	±6	-
Mg	mg/L (mg/dm <sup>3</sup> )	11,6	±2,1	50
Mn	mg/L (mg/dm <sup>3</sup> )	0,096	±0,027	0,1
Cu	mg/L (mg/dm <sup>3</sup> )	0,024	±0,006	1,0
As	mg/L (mg/dm <sup>3</sup> )	<0,0005	-	0,01
Ni	mg/L (mg/dm <sup>3</sup> )	0,0027	±0,0010	0,02
Hg	mg/L (mg/dm <sup>3</sup> )	<0,0001	-	0,0005
Pb	mg/L (mg/dm <sup>3</sup> )	0,00032	±0,00019	0,01
Cr	mg/L (mg/dm <sup>3</sup> )	0,0022	±0,0010	0,05
Zn	mg/L (mg/dm <sup>3</sup> )	0,095	±0,027	5,0
NH <sub>4</sub> <sup>+</sup>	mg/L (mg/dm <sup>3</sup> )	0,43	±0,11	2,0
HCO <sub>3</sub> <sup>-</sup>	mg/L (mg/dm <sup>3</sup> )	187	±22	-
CO <sub>3</sub> <sup>2-</sup>	mg/L (mg/dm <sup>3</sup> )	<6	-	-
NO <sub>3</sub> <sup>-</sup>	mg/L (mg/dm <sup>3</sup> )	0,60	±0,11	45
NO <sub>2</sub> <sup>-</sup>	mg/L (mg/dm <sup>3</sup> )	<0,02	-	3,0
SO <sub>4</sub> <sup>2-</sup>	mg/L	43	±4	500

	(mg/dm <sup>3</sup> )			
F <sup>-</sup>	mg/L (mg/dm <sup>3</sup> )	0,18	±0,03	1,5
Cl <sup>-</sup>	mg/L (mg/dm <sup>3</sup> )	31	±5	350