

Trace elements in natural water ** sold out new lot in preparation ******

Art. ID	NIST-1640a
Unit	250 ml
Deliverydetails	ADR Limited Quantity (LQ) / AIR Dangerous Good (DG) UN1760 II E2

Description

This Standard Reference Material (SRM®) is intended for use in evaluating methods used in the determination of trace elements in fresh water. NIST-1640a consists of acidified spring water with mass fractions and mass concentrations assigned for 29 elements, 22 of which were gravimetrically added. The solution contains nitric acid at a volume fraction of approximately 2 %. A unit of NIST-1640a consists of 250 mL of solution in a high-density polyethylene (HDPE) bottle sealed inside an aluminized Mylar pouch. Certified values

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Mass Fraction	Aluminium (Al)	[7429-90-5]	52,6 ± 1,8	µg/kg		
Mass Fraction	Antimony (Sb)	[7440-36-0]	5,064 ± 0,045	µg/kg		
Mass Fraction	Arsenic (As)	[7440-38-2]	8,01 ± 0,067	µg/kg		
Mass Fraction	Barium (Ba)	[7440-39-3]	150,6 ± 0,74	µg/kg		
Mass Fraction	Beryllium (Be)	[7440-41-7]	3,002 ± 0,027	µg/kg		
Mass Fraction	Boron (B)	[7440-42-8]	300,7 ± 3,1	µg/kg		
Mass Fraction	Cadmium (Cd)	[7440-43-9]	3,961 ± 0,072	µg/kg		
Mass Fraction	Chromium (Cr)	[7440-47-3]	40,22 ± 0,28	µg/kg		
Mass Fraction	Cobalt (Co)	[7440-48-4]	20,08 ± 0,24	µg/kg		
Mass Fraction	Copper (Cu)	[7440-50-8]	85,07 ± 0,48	µg/kg		
Mass Fraction	Iron (Fe)	[7439-89-6]	36,5 ± 1,7	µg/kg		
Mass Fraction	Lead (Pb)	[7439-92-1]	12,005 ± 0,04	µg/kg		
Mass Fraction	Manganese (Mn)	[7439-96-5]	40,07 ± 0,35	µg/kg		
Mass Fraction	Molybdenum (Mo)	[7439-98-7]	45,24 ± 0,59	µg/kg		
Mass Fraction	Nickel (Ni)	[7440-02-0]	25,12 ± 0,12	µg/kg		
Mass Fraction	Selenium (Se)	[7782-49-2]	19,97 ± 0,16	µg/kg		
Mass Fraction	Silver (Ag)	[7440-22-4]	8,017 ± 0,042	µg/kg		
Mass Fraction	Strontium (Sr)	[7440-24-6]	125,03 ± 0,86	µg/kg		
Mass Fraction	Thallium (Tl)	[7440-28-0]	1,606 ± 0,015	µg/kg		
Mass Fraction	Uranium (U)	[7440-61-1]	25,15 ± 0,26	µg/kg		
Mass Fraction	Vanadium (V)	[7440-62-2]	14,93 ± 0,21	µg/kg		
Mass Fraction	Zinc (Zn)	[7440-66-6]	55,2 ± 0,32	µg/kg		
Mass Concentration	Aluminium (Al)	[7429-90-5]	53 ± 1,8	µg/L		
Mass Concentration	Antimony (Sb)	[7440-36-0]	5,105 ± 0,046	µg/L		
Mass Concentration	Arsenic (As)	[7440-38-2]	8,075 ± 0,07	µg/L		
Mass Concentration	Barium (Ba)	[7440-39-3]	151,8 ± 0,83	µg/L		
Mass Concentration	Beryllium (Be)	[7440-41-7]	3,026 ± 0,028	µg/L		

Mass Concentration	Boron (B)	[7440-42-8]	303,1 ± 3,1	µg/L
Mass Concentration	Cadmium (Cd)	[7440-43-9]	3,992 ± 0,074	µg/L
Mass Concentration	Chromium (Cr)	[7440-47-3]	40,54 ± 0,3	µg/L
Mass Concentration	Cobalt (Co)	[7440-48-4]	20,24 ± 0,24	µg/L
Mass Concentration	Copper (Cu)	[7440-50-8]	85,75 ± 0,51	µg/L
Mass Concentration	Iron (Fe)	[7439-89-6]	36,8 ± 1,8	µg/L
Mass Concentration	Lead (Pb)	[7439-92-1]	12,101 ± 0,05	µg/L
Mass Concentration	Manganese (Mn)	[7439-96-5]	40,39 ± 0,36	µg/L
Mass Concentration	Molybdenum (Mo)	[7439-98-7]	45,6 ± 0,61	µg/L
Mass Concentration	Nickel (Ni)	[7440-02-0]	25,32 ± 0,14	µg/L
Mass Concentration	Selenium (Se)	[7782-49-2]	20,13 ± 0,17	µg/L
Mass Concentration	Silver (Ag)	[7440-22-4]	8,081 ± 0,046	µg/L
Mass Concentration	Strontium (Sr)	[7440-24-6]	126,03 ± 0,91	µg/L
Mass Concentration	Thallium (Tl)	[7440-28-0]	1,619 ± 0,016	µg/L
Mass Concentration	Uranium (U)	[7440-61-1]	25,35 ± 0,27	µg/L
Mass Concentration	Vanadium (V)	[7440-62-2]	15,05 ± 0,25	µg/L
Mass Concentration	Zinc (Zn)	[7440-66-6]	55,64 ± 0,35	µg/L