



Laboratory of Biogeochemistry and Environmental Conservation

Biological and Chemical Research Centre

University of Warsaw

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Code	Items	Method	Unit price PLN*	Gross price PLN**
I Analysis of water				
LBIOS_1	pH	pH Meter Mettler Toledo	12,00	14,00
LBIOS_2	Conductivity	Conductivity Analyzer Mettler Toledo	12,00	14,00
LBIOS_3	Loss on ignition (LOI) determining the Total Volatile Content	LOI method	10,00	12,00
LBIOS_4	Microwave digestion	Speedwave four Microwave Digestion Systems	35,00	48,00
LBIOS_5	Total carbon (TC) and total nitrogen (TN)	Multi N/C 3100 Analyzer	72,00	90,00
LBIOS_6	Inorganic carbon (IC)	Multi N/C 3100 Analyzer	43,00	60,00
LBIOS_7	Total organic carbon (TOC)	Multi N/C 3100 Analyzer	76,00	95,00
LBIOS_8	Total phosphorus	San++ Series, Continuous Flow Analyzers (<i>cfa</i>)	72,00	90,00
LBIOS_9	Phosphate, Ammonia, Nitrate and Nitrite, Sulfate	San++ Series, Continuous Flow Analyzers (<i>cfa</i>)	72,00	90,00
LBIOS_10	Multi- element analysis***	ContrAA700, High-resolution Continuum Source Atomic Absorption Spectrometer (AAS Flame)	21,00	24,00
LBIOS_11	Multi- element analysis***	ContrAA700, High-resolution Continuum Source Atomic Absorption Spectrometer (AAS Furnace)	43,00	54,00
LBIOS_12	Trace-element analysis: 5 elements	NexION 300D ICP-MS, Inductively coupled plasma mass spectrometry	100,00	126,00
LBIOS_13	Trace-element analysis: 6-10 elements	NexION 300D ICP-MS, Inductively coupled plasma mass spectrometry	129,00	169,00
LBIOS_14	Trace-element analysis: 11-15 elements	NexION 300D ICP-MS, Inductively coupled plasma mass spectrometry	172,00	218,00

II Analysis of soils, sediments and plants				
LBiOŚ_15	pH	pH Meters Mettler Toledo	12,00	14,00
LBiOŚ_16	Conductivity	Conductivity Analyzers Mettler Toledo	12,00	14,00
LBiOŚ_17	Microwave digestion	Microwave Digestion Systems Berghof	35,00	48,00
LBiOŚ_18	Microwave digestion	Speedwave four Microwave Digestion Systems	49,00	63,00
LBiOŚ_19	Total carbon (TC) and total nitrogen (TN) determination	FLASH 2000 Series CHN Elemental Analyzer	86,00	109,00
LBiOŚ_20	Total organic carbon (TOC)	FLASH 2000 Series CHN Elemental Analyzer	76,00	95,00
LBiOŚ_21	Nitrogen analysis according to Kjeldahl	Kjeltec analyzer	35,00	48,00
LBiOŚ_22	Total phosphorus	San++ Series, Continuous Flow Analyzers (<i>cfa</i>)	72,00	90,00
LBiOŚ_23	Phosphate, ammonia, nitrate and nitrite, sulfate (exchangeable)	San++ Series, Continuous Flow Analyzers (<i>cfa</i>)	72,00	90,00
LBiOŚ_24	Mercury	The DMA-80 mercury determination system	72,00	90,00
LBiOŚ_25	Potassium, Sodium, Calcium, Magnesium (exchangeable) ***	High-resolution Continuum Source Atomic Absorption Spectrometer (AAS Flame)	21,00	24,00
LBiOŚ_26	Multi- element analysis***	High-resolution Continuum Source Atomic Absorption Spectrometer (AAS Flame)	21,00	24,00
LBiOŚ_27	Multi- element analysis***	High-resolution Continuum Source Atomic Absorption Spectrometer (AAS Furnace)	72,00	78,00
LBiOŚ_28	Trace-element analysis: 5 elements	ICP-MS, Inductively coupled plasma mass spectrometry	100,00	126,00
LBiOŚ_29	Trace-element analysis: 6-10 elements	ICP-MS, Inductively coupled plasma mass spectrometry	129,00	169,00
LBiOŚ_30	Trace-element analysis: 11-15 elements	ICP-MS, Inductively coupled plasma mass spectrometry	172,00	218,00
LBiOŚ_31	Stable isotopes $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	107,00	145,00
LBiOŚ_32	Polycyclic aromatic hydrocarbon (PAH)	Gas Chromatography/Mass Spectrometry (GC-MS)	request pricing	
LBiOŚ_33	Fatty acids in sediments and archaeological samples	Gas Chromatography/Mass Spectrometry (GC-MS)	request pricing	

III Additional service****				
Code	Main isotopes measured	Instruments and equipment	Unit price PLN *	Gross price PLN**
LBiOŚ_34	Carbon ($\delta^{13}\text{C}$) - in fatty acid in sediments and archaeological samples (saturated and unsaturated)	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	400,00	492,00
LBiOŚ_35	Hydrogen (δD), oxygen ($\delta^{18}\text{O}$) - in water and solid samples	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	request pricing	
LBiOŚ_36	Carbon ($\delta^{13}\text{C}$) - in carbonates	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	request pricing	
LBiOŚ_37	Carbon ($\delta^{13}\text{C}$) - in exhaled air	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	request pricing	
LBiOŚ_38	Hydrogen (δD) - in creatine	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	request pricing	
LBiOŚ_39	Carbon ($\delta^{13}\text{C}$), nitrogen ($\delta^{15}\text{N}$) - in other organic compounds	Isotope ratio mass spectrometer (IRMS) combined with elemental analyzers, gas chromatograph and gas bench	request pricing	

Comments

* price for employees of the University of Warsaw; Price discount (max 20%) is possible to obtain by participation in the preparation of samples for analysis

** price for external customers

*** price for one element

**** extended scope of research of the IRMS laboratory