

PRICE LIST OF SERVICIOS GENERALES DE INVESTIGACIÓN 2018

GENERAL FARES

Prices are listed in euros.	2018		
Concepto	USE	OPI	EXT./PRIV
TECHNICAL REPORT OF RESULTS	160,00	200,00	240,00
SAMPLE REGISTRATION AND STORAGE, PER SAMPLE BATCH	70,00	85,00	100,00
TECHNICAL SUPPORT FOR TRAINING, PER HOUR	6,00	50,00	100,00
GENERAL TECHNICAL SUPPORT, PER HOUR.	20,00	50,00	100,00

SERVICIO DE RADOISÓTOPOS

Prices are listed in euros.	2018		
Issue	USE	OPI	EXT./PRIV
Total alpha-beta analysis	35,00	70,00	90,00
Tritium (LSC)	75,00	125,00	170,00
14C (LSC)	75,00	125,00	170,00
Sr-90 (Cerenkov)	120,00	200,00	260,00

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Ra-226 (LSC)	75,00	125,00	170,00
Pb-210 (LSC)	75,00	125,00	170,00
Uranium isotope analysis (Alpha spectrometry)	120,00	200,00	275,00
Thorium isotope analysis (Alpha spectrometry)	120,00	200,00	275,00
Po-210 (Alpha spectrometry)	100,00	160,00	240,00
Joint uranium and thorium isotopic analysis.	175,00	275,00	400,00
Gamma spectrometry.	60,00	100,00	160,00
Optically stimulated luminescence dating (OSL)	450,00	500,00	520,00
Radon in-situ surveillance (per day)	20,00	30,00	45,00
$\delta^{18}\text{O}/\delta^2\text{H}$ in low-salinity water (CRDS)	5,00	8,00	15,00
$\delta^{18}\text{O}/\delta^2\text{H}$ in high-salinity water (CRDS)	6,00	10,00	15,00

Group II. Additional sample pretreatment

Open-vessel digestion	10,00	10,00	25,00
Microwave digestion, reagent-grade acids	12,00	15,00	30,00
Microwave digestion, doubly-distilled acids	16,00	20,00	45,00
Sample filtration	2,00	2,00	1,50
Sample dilution with HNO_3 1%	2,00	2,00	3,00

Group III. Instrument usage fares (Per sample and counting day, unless otherwise specified)

Gas proportional counter	35,00	35,00	70,00
Alpha spectrometry	10,00	10,00	25,00
LSC (< 1/2 hour per sample)	1,00	1,50	2,50
Technical support, per hour.	10,00	10,00	20,00
Cleanroom rent, per day.	On demand	On demand	On demand

Note about ICP-MS analysis:

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Except for the analysis with the LA-ICP-MS, the analysis procedure consists of several steps: 1) Microwave-assisted digestion (solids, gels, biological samples, etc.), 2) filtration, 3) 1% HNO₃ dilution up to TDS < 1000 ppm, 4) semiquantitative analysis, performed before the quantitative analysis, to, at least 1 of every 5 samples of equal matrix (unless analyte concentration range and suitable internal standards are provided by user). Prices listed below are referred to one sample and don't include steps 1 to 4.

PLEASE PAY ATTENTION TO THE NOTES AT THE END OF THE TABLE.

Group IV. Semiquantitative analysis				
	25,00	25,00	41,00	
Group V. Quantitative analysis (EPA 200.8) of liquid samples.				
15 elements, 20 water samples, He mode (1)	25,00	25,00	42,00	
Group VI. Quantitative analysis of liquid samples (no QCs; (See note 2))				
15 elements, 20 water samples, He mode (1)	18,00	18,00	32,00	
Group VII. Isotopic ratios by ICP-MS.				
Stable lead isotopes, without previous separation.	20,00	30,00	45,00	
Stable lead isotopes, with previous separation.	90,00	100,00	140,00	
Uranium isotopes.	120,00	200,00	275,00	
Thorium isotopes.	120,00	200,00	275,00	
Uranium and thorium isotopes.	175,00	265,00	400,00	
Plutonium isotopes, with simple pretreatment.	35,00	40,00	70,00	
Group VIII. LA-ICP-MS on glass samples (otherwise, prices will be studied on demand)				
Glass sample analysis (user assisted by technical staff (1 hour)	35,00	35,00	70,00	
Per sample	16,00	17,00	35,00	
Group IX. Miscellaneous				
²¹⁰ Pb dating	70,00	70,00	150,00	

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In-situ gamma spectrometry	110,00	110,00	220,00
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- (1) Fares depend on the analyte type and the number of samples. Analysis of Hg, I, Ag, Ba, B (as well as Fe y Ca at high concentration levels), are analysed separately.
- (2) Dilution is performed m/m. No quality controls for matrix effects or spectroscopic interferences. The user is aware of the possible unassessed bias due to interferences. No second analysis nor complaints will be attended.