



Curt-Engelhorn-Zentrum
Archäometrie gGmbH

Pricelist

Material analyses

Sample preparation of rocks, ores, slag, etc. (cleaning, grinding, mineral separation, etc.)	75,-- €
EDXRF analyses (non-destructive) of metal samples	70,-- €
EDXRF analyses (non-destructive) of various materials, per hour	130,-- €
Micro-XRF, per hour	130,-- €
portable XRF analyses (in-house or on-site), per hour	130,-- €
Trace element analysis by laser ablation and ICP-MS (3 shots per sample)	230,-- €
Trace element analysis by laser ablation and ICP-MS with sample preparation	280,-- €
Trace element analysis by ICP-MS in solution, per hour	130,-- €
Neutron activation analysis of metal, rock, ceramic samples ¹	130,-- €
Neutron activation analysis of ore samples	155,-- €
X-ray diffraction for phase identification (including clay minerals)	175,-- €

Isotope analyses of metal and ore samples

Pb-isotope analysis incl. XRF analysis	380,-- €
Pb-isotope analyses	345,-- €
Sample preparation for Pb isotope analysis (charged only in case of failed analysis due to insufficient amount of lead)	115,-- €
Re- and Os-isotope analysis	690,-- €
Os-isotope and Os-concentration analysis	405,-- €
Sn-isotope analysis of ore samples and corroded metal samples	575,-- €
Sn-isotope analysis of corrosion-free metal samples (bronze)	490,-- €
Ag-isotope analysis of silver, silver minerals, gold and gold alloys, geological gold samples	490,-- €
Cu-isotope analysis	490,-- €

Investigation of production technology

Scanning electron microscopy, per hour	130,-- €
Special applications (e.g. element distribution on a micro-scale)	on request
Digital microscopy, per hour	130,-- €
Preparation of a polished section	55,-- €

¹ A surcharge can apply for single and/or express samples. Please request a quote.



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Authenticity tests

Authenticity test of copper-based alloys, silver, tin, lead, and alloys thereof	
▪ with Micro-XRF analysis incl. ^{210}Pb -Test and scientific report (1 hour)	750,-- €
▪ with Laser-ICP-MS analysis incl. ^{210}Pb -Test and scientific report (1 hour)	850,-- €
Luminescence authenticity test incl. neutron activation analysis	850,-- €

Physical dating methods

Re-Os dating of molybdenite incl. scientific report	3.000,-- €
Re-Os isochrone dating	on request
^{190}Pt - ^{186}Os dating	650,-- €
^{14}C - dating (AMS) incl. analysis report	380,-- €
Express surcharge ^{14}C -dating (turnaround time: 4 weeks)	250,-- €
Failed ^{14}C -analysis due to insufficient collagen preservation of bones or teeth	60,-- €
^{14}C -dating (AMS) by gas source analysis of CO_2 gas incl. analysis report	230,-- €
^{14}C -analysis (AMS) for biogenic content determination incl. analysis report	320,-- €
Collagen preservation testing (C/N-test)	20,-- €
^{14}C -dating (AMS) incl. stable isotope analysis ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) incl. ^{14}C analysis report (report of $\delta^{13}\text{C}$ und $\delta^{15}\text{N}$ results charged separately)	450,-- €
Dendrochronological analysis of wood samples incl. analysis report	70,-- €
Determination of wood species incl. analysis report	50,-- €
Dendrochronological analysis of art objects, instruments, furniture (single analysis) incl. analysis report	300,-- €
Luminescence dating of pottery and sediments	520,-- €

Bioarchaeology

Osteological analysis of human remains, cleaning not included	170,-- €
Osteological analysis of human remains, cleaning included	200,-- €
Sr-isotope analysis incl. sample preparation	330,-- €
Sr-isotope analysis without sample preparation	200,-- €
Determination of Sr-concentration	50,-- €



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Bioarchaeology

$\delta^{18}\text{O}$ -isotope analysis of carbonates without pre-treatment	100,-- €
$\delta^{18}\text{O}$ -isotope analysis of carbonates with pre-treatment	150,-- €
$\delta^{18}\text{O}$ -isotope analysis of phosphates	200,-- €
$\delta^{13}\text{C}/\delta^{15}\text{N}$ -isotope analysis	120,-- €

Reporting and scientific services

Analysis report, per hour	80,-- €
Scientific report incl. interpretation, per hour	140,-- €
Consulting in-house, per hour	140,-- €
Sampling in-house, per hour	140,-- €
Daily rate for sampling on-site (travel expenses excluded)	560,-- €

Additional services

3D-Scan and -print	on request
Return shipment of sample material, per package	20,-- €

Prices are quoted as net prices per sample (unless otherwise mentioned) to which the current Value Added Tax (VAT) has to be added. For services, which are invoiced per hour, the total amount is calculated according to the actual expenditure. A surcharge may apply for express orders. Our general conditions and terms of business apply.

For consultation please contact us by phone +49 621 293 8947 or by e-mail at info@ceza.de.

This price list is effective starting 1st of April 2019.