**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,-- €
- 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,-- €

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

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

### Physical dating methods

- Re-Os dating of molybdenite incl. scientific report $3.000,-- \text{ €}$
- Re-Os isochrone dating on request $650,-- \text{ €}$
- $^{190}$Pt-$^{186}$Os dating incl. analysis report $230,-- \text{ €}$
- $^{14}$C-dating (AMS) incl. analysis report $380,-- \text{ €}$
- Express surcharge $^{14}$C-dating (turnaround time: 4 weeks) $250,-- \text{ €}$
- Failed $^{14}$C-analysis due to insufficient collagen preservation of bones or teeth $60,-- \text{ €}$
- $^{14}$C-dating (AMS) by gas source analysis of CO$_2$ gas incl. analysis report $320,-- \text{ €}$
- Collagen preservation testing (C/N-test) $20,-- \text{ €}$
- $^{14}$C-dating (AMS) incl. stable isotope analysis ($\delta^{13}$C and $\delta^{15}$N) incl. $^{14}$C analysis report (report of $\delta^{13}$C und $\delta^{15}$N results charged separately) $450,-- \text{ €}$
- Dendrochronological analysis of wood samples incl. analysis report $70,-- \text{ €}$
- Determination of wood species incl. analysis report $50,-- \text{ €}$
- Dendrochronological analysis of art objects, instruments, furniture (single analysis) incl. analysis report $300,-- \text{ €}$
- Luminescence dating of pottery and sediments $520,-- \text{ €}$

### Bioarchaeology

- Osteological analysis of human remains, cleaning not included $170,-- \text{ €}$
- Osteological analysis of human remains, cleaning included $200,-- \text{ €}$
- Sr-isotope analysis incl. sample preparation $330,-- \text{ €}$
- Sr-isotope analysis without sample preparation $200,-- \text{ €}$
- Determination of Sr-concentration $50,-- \text{ €}$
### Bioarchaeology

<table>
<thead>
<tr>
<th>Service</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\delta^{18}$O-isotope analysis of carbonates without pre-treatment</td>
<td>100,-- €</td>
</tr>
<tr>
<td>$\delta^{18}$O-isotope analysis of carbonates with pre-treatment</td>
<td>150,-- €</td>
</tr>
<tr>
<td>$\delta^{18}$O-isotope analysis of phosphates</td>
<td>200,-- €</td>
</tr>
<tr>
<td>$\delta^{13}$C/$\delta^{15}$N-isotope analysis</td>
<td>120,-- €</td>
</tr>
</tbody>
</table>

### Reporting and scientific services

<table>
<thead>
<tr>
<th>Service</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis report, per hour</td>
<td>80,-- €</td>
</tr>
<tr>
<td>Scientific report incl. interpretation, per hour</td>
<td>140,-- €</td>
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<tr>
<td>Consulting in-house, per hour</td>
<td>140,-- €</td>
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<tr>
<td>Sampling in-house, per hour</td>
<td>140,-- €</td>
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<tr>
<td>Daily rate for sampling on-site (travel expenses excluded)</td>
<td>560,-- €</td>
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</tbody>
</table>

### Additional services

<table>
<thead>
<tr>
<th>Service</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D-Scan and -print</td>
<td>on request</td>
</tr>
<tr>
<td>Return shipment of sample material, per package</td>
<td>20,-- €</td>
</tr>
</tbody>
</table>

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.