

Analytical Services

for Decommissioning Tasks from the Erlangen Radiochemical Laboratory

Quick, reliable analytical services and the expertise of our competent laboratory provide you a solid basis for decisions on how to proceed.

Challenge

Decommissioning involves very specific tasks. Challenging questions and requirements by authorities and inspectors demand precise, reliable and quick solutions. For monitoring, declaration and final disposal various material samples have to be accurately analyzed. The radioactivity levels of these samples range from inactive to highly radioactive. Diverse chemical and physical parameters are often required.

Solution

The Radiochemical Laboratory in Erlangen supports decommissioning projects and plants in operation with a comprehensive analysis service and support. Our staff utilize a broad spectrum of analytical services such as:

- Chemical analyses (focus on element determination, thermal and leaching behavior)
- Radiochemical analyses (analyses of samples from mBq to TBq)
- Incorporation monitoring (monitoring concepts, excretion analyses, body counter measurements, intake and dose calculation)
- Hot cell activities (pre-treatment and accurate cutting of highly radioactive samples)
- Radiation metrology (on-site α - and γ -monitoring service).

Customer benefits

- One partner for a wide variety of material and nuclide analyses
- Reliability through high quality standards (accredited laboratory)
- Transport service for national and international shipping
- Possibility of long-term partnership agreements

Your performance
is **our** everyday **commitment**



Technical information

- More than 100 accredited procedures
- Experienced in handling radioactivities up to $2 \cdot 10^{15}$ Bq, when required in hot cells and semi-hot cells
- Broad scope of analyses, determination of hard to detect α -, β - and γ -emitters
- Own shipping casks for highly active samples are available

Key figures

1,500 samples and more are analyzed per year

10 hot and semi-hot cells for special purposes

24/7 service on request, flexible and reliable

60 years of experience in handling and analyzing of various radioactive materials

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