

# IAF - Radioökologie GmbH

Radionuclide Laboratory | Radiation Safety | Radiological Consultants



**IAF - Radioökologie GmbH (IAF) is a leading radionuclide laboratory and interdisciplinary radiation safety consultancy based in Radeberg, Germany.**

Since its foundation in 1993, IAF has been trusted by private customers, regulators, authorities and governments in Germany and worldwide.

Our outstanding reputation rests on superior quality of our laboratory for more than 20 years, state-of-the-art analytical technology and advanced radiochemical methods. Our focus is on highest precision and reliability of results delivered and the conclusions drawn from them by us and our customers.

Our laboratory stands out by client-oriented, flexible sample logistics, very short turnaround time and comprehensive customer service. We go far beyond mere analytics and provide problem-oriented, scientific interpretation of the laboratory results.

**Our nuclide laboratory is accredited by DAKkS**, the official German accreditation body, under ISO 17025:2005 (accreditation number D-PL-11201-01-00). The scope of our accreditation also comprises the determination of in-situ parameters such as measurements of indoor radon concentrations, ambient gamma dose rate and surface contamination. IAF has fully implemented all requirements of ISO 11929:2011 (Determination of the characteristic limits (decision threshold, detection limit and limits of the confidence interval) for measurements of ionizing radiation).

**Our accredited laboratory analyses, inter alia, the following samples:**

- Building materials, soils and sediments,
- Dust, aerosols, aerosol filters, filter residues,
- Radioactive residues (NORM) and radioactive waste,
- Groundwater, rainwater, surface water,
- Drinking and mineral water, beverages,
- Production waters of all industries,
- Highly saline water,
- Agricultural, plant and animal products,
- Foodstuffs and cosmetics,
- Oil, oily liquids, vegetable oil,
- Excrements (stool, urine) and blood samples,
- Samples from environmental monitoring and decommissioning of nuclear facilities.



We would be happy to discuss your specific needs and requirements for high quality radioanalytical services with very short turnaround times and flexible sample logistics. Please ask for a highly competitive quote (see contact details overleaf).

# IAF - Radioökologie GmbH

Radionuclide Laboratory | Radiation Safety | Radiological Consultants



Radionuclides that IAF can analyse include, but are not limited to, the following:

Natural radionuclides	Artificial radionuclides
U-238	Cs-137
U-234	H-3 (Tritium)
Th-230	C-14
Ra-226	Fe-55
Rn-222 (in water)	Co-60
Pb-210	Ni-63
Po-210	I-131
Th-232	I-129
Ra-228	Sr-89,90
Th-228	Am-241
U-235	Pu-238,239,240,241
Ac-227	Eu-152,154,155
Pa-231	Np-237
K-40	Cm-242,243,244

There are many other radionuclides that IAF can determine. Please contact us with your special request.

The state-of-the-art radionuclide laboratory of IAF comprises modern, well-maintained and calibrated equipment for time-efficient analyses of nuclides of highest precision and reliability, including the following:

- 14 n-type gamma spectrometers (ultra-low level) suitable for measurements in an energy range from 10 keV,
- A 10 channel alpha beta low level counter,
- 36 alpha spectrometers,
- 4 ultra-low level liquid scintillation (LSC) spectrometers (3 TriCarb 3170, Quantulus 1220),
- Oxidizer A307 for Tritium and C-14 analyses after incineration,
- microwave and tube furnace for sample digestion.

IAF also operates a comprehensive pool of field equipment and in-situ measurement devices, such as down-hole gamma probes for the determination of radium and uranium profiles in drillholes, pipes, containers etc., mobile gamma spectrometers with GPS location tracking, gamma and alpha/beta contamination monitors, and more than 80 radon monitors. IAF is a Government-approved body for radon measurements according to Art. 155 of the German Radiation Protection Ordinance, and Expert Organisation according to Art. 172 (1) of the German Radiation Protection Act for Norm Workplaces.



## Contact

Dr. Christian Kunze  
IAF - Radioökologie GmbH  
Wilhelm-Rönsch Str. 9  
D-01454 Radeberg, Germany

Email: [kunze@iaf-dresden.de](mailto:kunze@iaf-dresden.de)  
Phone: +49 (0) 3528 48730-28  
Mobile: +49 (0) 177 7120090  
Fax: +49 (0) 3528 48730-22

[www.iaf-dresden.de](http://www.iaf-dresden.de)