

## COMPETENCE DRIVEN SERVICES

### ALL-IN-ONE RADIATION PROTECTION SERVICE

The Radiation Safety and Application and Radiation Protection Dosimetry division of Seibersdorf Laboratories offers a quality All-in-One service for work with ionizing radiation.

We design our services in accordance with our customers' specific requirements. Our All-in-One service benefits industrial companies, physicians, health care organizations and emergency services:



### QUALITY YOU CAN RELY ON

Our experts are leaders on international and national committees, and their work is state-accredited and certified according to quality guidelines. In accordance with our quality standards, we regularly undergo internal and external audits so that we can offer you state-of-the-art services at all times.



### HOW TO FIND US

Find more information at the following web-address:  
[www.seibersdorf-laboratories.at/contact](http://www.seibersdorf-laboratories.at/contact)

### CONTACT

Seibersdorf Labor GmbH  
Radiation Safety and Applications  
Radiation Protection Dosimetry  
2444 Seibersdorf, Austria  
Phone: +43 (0) 50550-2545  
Fax: +43 (0) 50550-2544  
[radiation@seibersdorf-laboratories.at](mailto:radiation@seibersdorf-laboratories.at)  
[www.seibersdorf-laboratories.at/radiation](http://www.seibersdorf-laboratories.at/radiation)

# SEIBERSDORF LABORATORIES



FREQUENTLY ASKED SOLUTIONS



## ALL-IN-ONE SERVICE

FOR ALL USERS OF IONIZING RADIATION  
IN MEDICINE AND TECHNOLOGY

## ALL-IN-ONE RADIATION PROTECTION SERVICE

We will assist you in all matters concerning radiation protection, from the planning and authorization phases to acceptance inspection and daily operation. In the process, we ensure the safety of your employees as well as the protection of the environment.

### SUPPORT IN THE PLANNING AND AUTHORIZATION PHASE

It is important to obtain expert reports and authorizations at an early time, especially during the planning phase. During this phase, we will be happy to support you with:

- Expert reports on radiation protection
- Design approval and acceptance testing
- Safety and accident analyses
- Consulting
- Submission of authorizations
- Communication with the authorities

### SAMPLE TESTING AND ANALYSIS

As a **STATE APPROVED TESTING LABORATORY**, we perform tests in accordance with:

- ÖNorm S5200 Building material index
- ÖNorm S5251 Drinking water regulation
- ÖNorm S5222 Leakage testing

With respect to AllgStrSchV [Austrian General Radiation Protection Ordinance] and NatStrV [Natural Sources of Radiation Ordinance], we analyze your food, industrial, or environmental samples using:

- Gamma spectrometry
- Alpha spectrometry
- Liquid scintillation counting (LSC)
- Gas flow counting

### OUR EMPLOYEES

We take care of your employees' radiation monitoring at our **APPROVED DOSIMETRIC SERVICE**.

Monitoring of radiation exposure is performed using thermoluminescent dosimeters (TLD):

- Whole body dosimeter  $H_p(10)$
- Finger ring dosimeter  $H_p(0,07)$
- Area dosimeter  $H^*(10)$



Incorporation monitoring:

- Direct measurement of gamma-emitting radionuclides using whole body counters
- Determination of alpha emitters (e.g., uranium, thorium, plutonium, and americium isotopes) in urine and stool samples
- Determination of pure beta emitters (e.g., tritium, carbon-14, sulfur-35, phosphorus-32, phosphorus-33, strontium-90/yttrium-90) in urine and stool samples
- Determination of gamma emitters (e.g., cobalt-60, iodine-131, cesium-137) in urine and stool samples
- Assessment of test results with calculation of activity intake as well as organ and committed effective doses
- Transmission of test results to the central dose registry

### DEVELOPING SYSTEMS & MEASURING DEVICES FOR YOU

We develop tailored systems for you and also offer proven standard measuring equipment:

- Radiation measurement using portal monitors for waste disposal services
- Robust handheld measuring equipment for industry and emergency services
- Mobile measuring technology for identifying sources of radioactivity in the field
- Measuring techniques to meet individual customer requirements

### TAKE CARE OF YOUR BUSINESS - WHILE WE TAKE CARE OF YOUR EQUIPMENT

While you concentrate on your daily business, we take care of the maintenance and calibration of your devices. Our **VERIFICATION AND CALIBRATION CENTER** is accredited for the following types of dosimeters:

- Radiation protection dosimeters (except stationary measuring systems)
- Therapy dosimeters (except dosimeters for soft X-ray therapy)
- Diagnostic dosimeters (except dosimeters for mammography)
- Dosimeters for constancy testing (except dosimeters for mammography)

### REGULAR TRAINING ENSURES SAFETY

Our course offerings are based on legally mandated safety guidelines, but we will also be happy to develop trainings based on your specific requirements:

- Radiation protection for human and veterinary medicine
- Radiation protection in technology
- Training to become an approved physician
- Training of emergency agency staff
- Refresher and continuing education courses

In addition to offering theoretical instruction, our courses benefit from the presenters' years of practical experience in the area of radiation protection.

