



RADIONUCLIDE LABORATORY

MOBILE LABORATORY, IN-SITU MEASUREMENTS

The Mobile Laboratory is designed to enable radiation protection experts to perform high quality measurements, evaluate and assess the results in field conditions. The aim is to support first responders in emergency situations and allow early decisions by authorities to protect public health.

- Searching and finding of sources
- Route monitoring and source location
- Deposition measurement with γ -spektrometry
- Dose rate measurements
- Contamination measurements
- Incident management (accidents, discoveries)
- Transport of radioactive substances
- Risk analysis

ENVIRONMENTAL MEASUREMENTS

The mobile laboratory enables highly sensitive measurements to be carried out on site and thus allows application-oriented measurement and analysis procedures to be provided for screening, searching for, finding, identifying and quantifying radioactive sources.

INCIDENTS

During an emergency operation (searching for „orphan“ sources) the most critical factor is the time required to locate a source, since this has a direct impact on the radiation exposure of workers or possibly even on population. In the event of a major incident, measures for emergency units or the population can be decided upon on the basis of these measurement data.



EQUIPMENT

The mobile laboratory equipment enables the dose rate to be measured at a given location. It is also possible to evaluate wipe samples and to determine the activity of air, soil and water samples. A portable liquid scintillation counter, a germanium detector, an α - β counter and a neutron detector for α , β , γ and neutron measurements, and extensive sampling equipment are available for these procedures.

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TRANSPORT

The transport of radioactive substances is subject to the provisions of ADR road, therefore the Mobile Laboratory is equipped with all necessary fixed barrels in a separated transportation cabin and the transport documents needed. A glove box located transportation cabin allows handling of open or dusty material without interference to the sensitive measurements.

CONSULTING

We support radiation protection experts, first responders and national authorities in the definition, needs and design of a Mobile Laboratory which serves the specific demands and situations. Consultation can be given on equipment components, including requirements, set-ups and evaluation to achieve the most customized Mobile Laboratory.



CONTACT

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