



STS Directory

Accreditation number: **STS 0491**

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 04.10.2007
Current accreditation: 18.09.2017 to 17.09.2022
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 23.02.2021

Testing laboratory for personal dosimetry, in-vivo radioactivity measurement and environmental dosimetry

| Group of products or materials, field of activity | Principle of measurement ²⁾ (characteristics, measuring ranges, type of test) | Test methods, remarks (national, international standards, in-house test methods) |
|---|--|--|
| Individual dosimetry of external radiation exposure | Radiophotoluminescent and "Direct Ion Storage" dosimeters for photon and beta radiation Dosimeters with solid state detectors PADC for neutrons | Measure of individual dose equivalent $H_p(10)$ and $H_p(0.07)$ for photon and beta radiation Measure of individual dose equivalent $H_p(10)$ for neutron radiation Measure of individual dose equivalent $H_p(0.07)$ for photon and beta radiation to the extremities Ordinance of individual dosimetry SR 814.501.43 Radiation protection ordinance SR 814.501 |



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| Group of products or materials, field of activity | Principle of measurement ²⁾ (characteristics, measuring ranges, type of test) | Test methods, remarks (national, international standards, in-house test methods) |
|---|---|--|
| Individual dosimetry of external radiation exposure | | Accreditation of the Swiss Federal Nuclear Safety Inspectorate |
| Individual dosimetry of internal radiation exposure | Determination of committed effective dose E_{50} using whole body activity, activity in the thyroid or activity concentration of excrements | Calculation of committed effective dose E_{50} Ordinance of individual dosimetry SR 814.501.43 Radiation protection ordinance SR 814.501 Standard models and dose factors according to ICRP Accreditation of the Swiss Federal Nuclear Safety Inspectorate |
| In-vivo radioactivity measurement | Whole body counter Thyroid monitor | Measure of whole body activity of γ - emitters like Cs-137, Co-60 Measure of activity of I-123, I-125 and I-131 in the thyroid Accreditation of the Swiss Federal Nuclear Safety Inspectorate |
| Environmental dosimetry | Radiophotoluminescent and thermoluminescent dosimeters for photon radiation and fission track detectors for neutrons | Measure of ambient dose equivalent $H^*(10)$ for photon and neutron radiation Internal regulations |

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