Highest quality in usage and evaluation

If you handle radioisotopes for any purposes or if you carry out radiographic interventional procedures, our rings are the perfect dosimeters to cover your needs.
The use of thermoluminescent dosimeter, or TLD, is a state-of-the-art method of reporting individual doses. Our ring dosimeters provide accurate monitoring of the dose equivalent at a tissue depth of 0.07 mm.

Our standard ring (W-ring) can be used for most common applications in extremity dosimetry. Covering the need of dose assessment of radiation with very low energy, we offer a special ring with an extended measurement range (X-ring). All rings are filled with lithium fluoride TLD’s. For the W-ring, the detectors are doped with magnesium and titanium, for the X-ring, the chips are doped with magnesium and copper. On their way to the detector, low energy photons and betas pass a Mylar foil with a thinness of a bit more than twenty nanometers).

The detectors store energy when exposed to ionizing radiation. By heating, this energy is released in form of light. The amount of light constitutes a measure for the dose received.

Being type approved by the PTB, our rings are appropriate dosimeters for application in official extremity dosimetry. They are comfortable to wear and can be used under surgical gloves. The size of the rings is infinitely variable and so one size fits all. Usually, the rings are worn on fingers for a period of one month. Our ring dosimeters can be disinfected and sterilized up to 80°C.