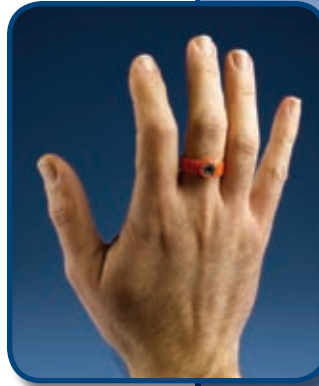


## BDS Extremity Ring Dosimeter

- An extremity ring dosimeter for occupationally exposed radiation workers based on well-established TLD technology
- Accurately determines shallow radiation dose over a broad range of photon and beta energies



## Specifications

**Minimum Exposure Fluoro:** High-sensitivity LiF: Mg, Cu, P

**Dosimeter Configuration:**

- The BDS Extremity Ring Dosimeter consists of a LiF: Mg, Cu, P, 7 mg/cm<sup>2</sup> TLD disc bonded to a Kapton7 film. A flat ring is also bonded to the Kapton surrounding the TLD disc.
- The ringlet has a unique 5-digit identification number visible in both barcode and numeric format. This TL element assembly is placed in the recess of an adjustable finger ring.
- A plastic cap, 3.3 mg/cm<sup>2</sup> is pressed into the recess to provide hermetic sealing of the TL chip and a 2X magnification to aid in reading the Chip ID.



**Ring:**

- The finger ring is made of durable low density polypropylene plastic available in a variety of colors.
- Continuously adjustable for a wide range of ring sizes
- Cold sterilizable

**Fading:** Negligible, over 6 months

**Minimum Reportable Dose:** 10 mrem

**Radiations Detected:** Photon, Beta

**Energy Response Relative to Cs:**

- Photon  $\pm 20\%$  from 20 keV to 1.2 MeV
- Beta  $\pm 30\%$  from <sup>90</sup>Sr/<sup>90</sup>Y to <sup>204</sup>Tl