

A Thermoluminescent dosimeter by co-doping with Mn for measurement of low radiation doses

Salient features of the technology

- Thermoluminescent dosimeter made by co-doping with Mn; $\text{CaSO}_4:\text{Dy, Mn}$ is ultrasensitive compared to known materials.
- This product may be used in estimating low radiation doses in personal dosimetry.
- This thermoluminescent dosimeter is easy to prepare.
- This dosimeter is also cost effective.
- The technology has been developed up to laboratory scale. Kits have been prepared by the inventor.
- It is developed by All India Institute of Medical Sciences, New Delhi in collaboration with ICMR.
- Patent has been filed in India and foreign filing through PCT is under process.

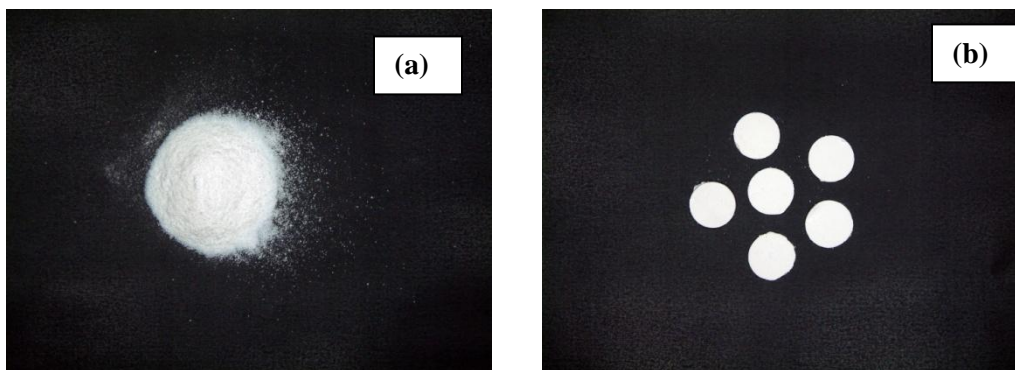


Fig. (a) $\text{CaSO}_4:\text{Dy, Mn}$ in powder form and (b) in the form of pellets