
A swallowable X-ray dosimeter for the real-time monitoring of radiotherapy

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Supplementary Table 1 | Radioluminescence and afterglow performance of various scintillators upon X-ray irradiation.

Materials	Form	Detection limit (keV)	Radioluminescence ^a (%)	Afterglow (%) @300s
SrAl ₂ O ₄ :Eu ²⁺ /Dy ³⁺	Bulk	~20	8.46	8.46
ZnGa ₂ O ₄ :Cr ³⁺	Bulk	~20	3.27	3.27
CaAl ₂ O ₄ :Eu ²⁺ /Nd ³⁺	Nanoparticles	~20	12.45	12.45
Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ /Dy ³⁺	Nanoparticles	~20	20.15	20.15
GOS:Tb ³⁺	Bulk	~10	25.4	0
ZnS: Cu ²⁺ /Co ²⁺	Bulk	~5	10.72	10.72
NaLuF ₄ :Tb ³⁺	Nanoparticles	~5	100	100

^a Radioluminescence at the same X-ray dose, when the radioluminescence intensity of NaLuF₄:Tb was set to 100%.