

ISO 28057:2014-03 (E)

Dosimetry with solid thermoluminescence detectors for photon and electron radiations in radiotherapy

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Rules for the TLD measurement procedure	9
4.1	Principle of measurement	9
4.2	Measured quantity	9
4.3	Measurement cycle	10
4.4	Measurement of the absorbed dose to water	12
4.5	Uncertainty of measurement of the absorbed dose	22
4.6	Reusability	22
4.7	Stability check	23
4.8	Staff	23
5	Requirements for the TLD system	23
5.1	General information	23
5.2	Completeness of the TLD system	23
5.3	Requirements for TL detectors	26
5.4	Requirements for TL-indicating instruments	27
5.5	Requirements for auxiliary instruments (pre-irradiation annealing device)	32
5.6	Requirements for the entire TLD system	32
5.7	Requirements for the calibration irradiation device	35
5.8	Requirements for the accompanying papers	35
5.9	Acceptance tests	35
Bibliography		37