

ISO 23588:2023-02 (E)

Radiological protection - General requirements for proficiency tests for in vivo radiobioassay

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Planning	2
4.1	Determination of the type of proficiency test	2
4.2	Choice of measurement tasks	3
4.3	Selection of radionuclides	3
4.4	Selection of activity ranges	3
4.5	Choice of phantom	4
4.6	Announcement of the proficiency test	4
5	Preparation of phantoms and sources	5
5.1	Preparation of phantoms	5
5.2	Preparation of sources	5
5.3	Quality assurance	5
6	Conducting the proficiency test	5
6.1	General	5
6.2	Preparation of the phantom at the participant's facility	6
6.3	Measurement of the phantom by the participants	6
6.4	Reporting protocol	6
7	Data analysis and evaluation of results	7
7.1	General	7
7.2	Determination of the assigned value	7
7.3	Calculation of the performance scores	8
7.4	Report	8
Annex A (informative)	Example schedule for a proficiency test	9
Annex B (informative)	Example measurement tasks	10
Annex C (normative)	MTL for in vivo radiobioassay performance testing	11
Annex D (informative)	Examples of phantoms	12
Bibliography		13