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> ISO 28218: 2010 August 2025

#### **BUREAU OF INDIAN STANDARDS**

#### DRAFT FOR COMMENTS ONLY

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## Draft Indian Standard

## Radiation Protection — Performance Criteria for Radiobioassay

## भारतीय मानक मसौदा

# विकिरण से सुरक्षा - विकिरण जैव आमापन के लिए निष्पादन मानदंड

(ICS 13.280)

Nuclear Energy for Peaceful Applications Sectional Committee, CHD 30

Last Date for Comments: 7<sup>th</sup> October 2025

Nuclear Energy for Peaceful Applications Sectional Committee, CHD 30

#### NATIONAL FOREWORD

(Formal clauses will be added later)

This standard establishes criteria for quality assurance, quality control, and performance evaluation of radiobioassay service laboratories.

It covers both in vivo (measuring radioactive materials within the body using phantoms, etc.) and in vitro (measuring radioactive material in biological samples such as urine or blood) radiobioassay methods.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words `International Standard' appear referring to this standard, they should be read as `Indian Standard'.
- b) Comma (,) has been used as a decimal marker in the International Standard, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standards/	Corresponding Indian Standard	Degree of Equivalence
documents		
ISO 5725-1	IS 15393 (Part 1):2003/ISO 5725- 1:1994	Identical
Accuracy (trueness and precision) of measurement methods and results		

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— Part 1: General principles and definitions	Accuracy (Trueness And Precision) of measurement methods and results: Part 1 general principles and definitions	
ISO 5725-3  Accuracy (trueness and precision) of measurement methods and results — Part 3: Intermediate measures of the precision of a standard measurement method	of measurement methods and	Identical

The technical committee has also reviewed the provisions of the following International Standards/ documents referred in this adopted standard and has decided that they are acceptable for use in conjunction with this Standard:

International Standards/ documents	Title
ISO 5725-2	Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method
ISO/IEC Guide 99	International vocabulary of metrology — Basic and general concepts and associated terms (VIM)

In this adopted standard, reference appears to certain International Standards/documents where the standard atmospheric conditions to be observed are stipulated which are not applicable to tropical/subtropical countries. The applicable standard atmospheric conditions for Indian conditions are  $(27 \pm 2)$  °C and  $(65 \pm 5)$  percent relative humidity and shall be observed while using this standard.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2: 2022 'Rules for rounding off numerical values (second revision)'.

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### FOR COMPLETE TEXT OF THE DOCUMENT, KINDLY REFER ISO 28218: 2010

**Note:** The technical content of the document has not been enclosed as these are identical with the corresponding ISO Standard. For obtaining the copy of the complete ISO Standard, please contact:

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