

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

**नैनोप्रौद्योगिकी- नैनोकणों के साइटोटॉक्सिक प्रभाव को मापने के लिए
इन विट्रो एमटीएस परीक्षण
(ISO 19007:2018)**

Draft Indian Standard

**Nanotechnologies — In vitro MTS assay for measuring the cytotoxic effect of
nanoparticles
(ISO 19007:2018)**

[ICS: 07.120]

Medical Biotechnology and Medical Nanotechnology
Sectional Committee, (MHD 20)

Last Date for Comments:
23 June 2024

NATIONAL FOREWORD

(Adoption clause will be added later)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions 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 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:

<i>International Standard</i>	<i>Corresponding Standard</i>	<i>Degree of Equivalence</i>
ISO/TS 80004-2, Nanotechnologies — Vocabulary — Part 2: Nano- objects	IS 17003 (Part 2) : 2018/ ISO/TS 80004-2 : 2015, Nanotechnologies - Vocabulary: Part 2 Nano – Objects	Identical

Note: The technical content of the document has not been included as it is identical with the corresponding ISO standard. For details, please refer to ISO 19007:2018 or kindly contact:

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Scope

This document specifies a method for evaluating the effects of nano-objects and their aggregates and agglomerates (NOAA) on cellular viability using the MTS assay. The assay design includes performance requirements and control experiments to identify and manage variability in the assay results.

This document is applicable to the use of a 96-well plate.