

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

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*भारतीय मानक मसौदा*

**दंत चिकित्सा - फ्लोराइड आयन- सेलेक्टिव इलेक्ट्रोड के उपयोग द्वारा  
एक्स सोल्यूशन्स में फ्लोराइड कॉन्सेंट्रेशन का विश्लेषण**

*Draft Indian Standard*

**Dentistry — Analysis of Fluoride Concentration in Aqueous  
Solutions by Use of Fluoride Ion-Selective Electrode**

**ICS 97.170**

Dentistry Sectional Committee, MHD 08

Last date for comments: 05 April 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:

- Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
- 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 Indian Standard</i>                         | <i>Degree of Equivalence</i> |
|--|--|------------------------------|
| ISO 835, Laboratory glassware — Graduated pipettes | IS/ISO 835 : 2007, Laboratory glassware - Graduated pipettes | Identical                    |
| ISO 1942, Dentistry — Vocabulary                   | IS 17895: 2023/ISO 1942: 2020, Dentistry Vocabulary          | Identical                    |

ISO 3696, Water for analytical laboratory use — Specification and test methods  
IS 1070 : 2023, Reagent grade water - Specification (*Fourth Revision*) Modified

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

| <i>International Standard</i> | <i>Title</i>   |
|-------------------------------|--|
| ISO 78-2                      | Chemistry — Layouts for standards — Part 2: Methods of chemical analysis |

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

## **Scope**

This document specifies test methods for the quantification of fluoride concentrations in dental products including dentifrices, gels, oral rinses, fluoride releasing varnishes, and other fluoride containing products. The methods are based on fluoride ion-selective electrode technology for the analysis of fluoride in aqueous samples derived from dental products.

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The technical content of the document has not been enclosed as it is identical with the corresponding ISO standard. For details, please refer to ISO 19448:2018 or kindly contact:

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