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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11417.4-2012

**Ophthalmic optics -- Contact lenses -- Part 4: Saline solution for
contact lens testing
(English Translation)**

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Foreword

Ophthalmic optics - Contact lenses together with GB/T 28539 Ophthalmic optics - Contact lenses and contact lens care products - Determination of preservative uptake and release and GB/T 28538 Ophthalmic optics - Contact lenses and contact lenses care products - Determination of biocompatibility by ocular study with rabbit eyes constitute the national standard series for contact lenses.

Ophthalmic optics - Contact lenses is divided into the following 9 parts:

- Part 1: Vocabulary, classification system and recommendations for labeling specifications; (GB/T 11417.1)
- Part 2: Rigid contact lenses specification; (GB 11417.2)
- Part 3: Soft contact lenses; (GB 11417.3)
- Part 4: Saline solution for contact lens testing; (GB/T 11417.4)
- Part 5: Testing methods for optical properties; (GB/T 11417.5)
- Part 6: Mechanical properties test methods; (GB/T 11417.6)
- Part 7: Physicochemical properties test methods; (GB/T 11417.7)
- Part 8: Determination of shelf-life; (GB/T 11417.8)
- Part 9: Ageing by exposure to UV and visible radiation (in vitro method). (GB/T 11417.9)

This part is Part 4.

This part was drafted according to the rules given in GB/T 1.1-2009.

This part was compiled by using the redrafting method with reference to ISO 18369-3:2006 Ophthalmic optics - Contact lenses - Part 3: Measurement methods and is not equivalent to ISO 18369-3:2006.

1 Scope

GB/T 11417.4 gives the specification of a standard saline solution used in contact lens testing.

This standard applies to standard saline solutions, which can be used as balanced solutions for contact lenses or contact lens materials before testing, and can also be used as immersion solutions during the testing process of certain items.

2 Normative references

The following documents are essential for the application of this document. For any referenced document with a date, only the version corresponding to the date is applicable to this document; for any undated referenced document, the latest version (including all amendments) is applicable to this document.

GB/T 6682-2008 Water for analytical laboratory use - Specification and test methods

GB/T 11417.1-2012 Ophthalmic optics - Contact lenses - Part 1: Vocabulary, classification system and recommendations for labeling specifications

3 Terms and definitions

The terms and definitions defined in GB/T 11417.1-2012 apply to this document.

4.1 General

When this standard salt solution is used for testing, the test report shall indicate that a standard salt solution that complies with this standard is used. If this standard salt solution is not used, the results may vary and the composition of the solution used shall be stated in the test report.

The standard salt solution shall be a phosphate buffer solution with a pH of 7.4 ± 0.1 and

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