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**General rules for molecular
absorptiometric analysis**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Analytical Instruments Manufacturers' Association (JAIMA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 0115 : 2004**), which has been technically revised.

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General rules for molecular absorptiometric analysis

1 Scope

This Japanese Industrial Standard specifies general rules in the case where quantitative analysis is carried out by measuring the transmittance, absorbance or reflection of light by a substance within a range from near 200 nm to near 1 100 nm of wavelength by using a spectrophotometer or a photoelectric photometer. This Standard does not apply to the methods using an atomic absorption spectrometer, a near-infrared spectrometer, infrared spectrometer or a nephelometer.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0050 *General rules for chemical analysis*

JIS K 0211 *Technical terms for analytical chemistry (General part)*

JIS K 0212 *Technical terms for analytical chemistry (optical part)*

JIS K 0215 *Technical terms for analytical chemistry (Analytical instrument part)*

JIS R 3505 *Volumetric glassware*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS K 0211, JIS K 0212, JIS K 0215, and the following apply.

3.1

absorbance

numerical value obtained by taking common logarithms of a ratio of the intensity of the light which transmitted a sample to an intensity of the light before transmission

3.2

transmittance

ratio of an intensity of the light after transmission to an intensity of the light before transmission for expressing a proportion of the light which transmitted substance

3.3

percent transmission

value obtained by expressing transmittance in percentage

3.4