JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 0135 : 2003

(JBA/JSA)

General rules for preparative liquid chromatography

ICS 71.040.50

Reference number : JIS K 0135 : 2003 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Bioindustry Association (JBA)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 2003-12-20

Date of Public Notice in Official Gazette: 2003-12-22

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Chemical Products

JIS K 0135:2003, First English edition published in 2004-09

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

Contents

General rules for preparative liquid chromatography

1 Scope This Japanese Industrial Standard provides for general rules of the preparative liquid chromatography used for the fractionation of the material.

2 Normative references The following standards contain provisions which, through reference in this Standard, 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 0114 *General rules for gas chromatographic analysis*

JIS K 0124 *General rules for high performance liquid chromatography*

JIS K 0127 *General rules for ion chromatographic analysis*

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

JIS K 0214 *Technical terms for analytical chemistry (chromatography part)*

JIS K 3600 *Biotechnology—Vocabulary*

JIS K 3610 *Technical terms for biological engineering*

JIS Z 8103 *Glossary of terms used in measurement*

JIS Z 8122 *Contamination control—Terminology*

3 Definitions For the main terms used in this Standard, the definitions given in **JIS K 0114**, **JIS K 0124**, **JIS K 0127**, **JIS K 0211**, **JIS K 0214**, **JIS K 3600**, **JIS K 3610**, **JIS Z 8103**, **JIS Z 8122** and the following definitions apply.

a) **General terms** The definitions of the general terms are as follows:

1) **preparative liquid chromatography** A separation method whereby target components in the sample solution are fractionated and collected with the chromatography using a liquid as a mobile phase.

2) **purification** Procedure for increasing the purity of a target component by removing the impurities contained in a target component of a sample solution.

3) **packing layer** Layer of column packing packed into a chromatograph tube.

4) **load, sample injection** Procedure for injecting a samples into a column.

5) **load mass, load volume** Mass or volume of the sample which is injected into a column.

6) **load solvent, sample solvent** Liquid for dissolving the sample.

7) **elution** Procedure for developing and eluting the components which are retained in a column.

8) **elution** Procedure for flowing out the components retained in a column by using a liquid.