

JIS

JAPANESE INDUSTRIAL STANDARD

**Cellulose acetate
membrane automated
electrophoresis systems**

JIS K 3837—1995

Translated and Published

by

Japanese Standards Association

Printed in Japan



Documents
Document Sharing Hub

58

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

JAPANESE INDUSTRIAL STANDARD

J I S

Cellulose acetate membrane automated
electrophoresis systems

K 3837-1995

1. Scope This Japanese Industrial Standard specifies the automated system (hereafter referred to as "system") for the purpose of measuring simultaneously plural samples about such items as fraction ratio and A/G ratio of the protein included in blood serum, by means of electrophoresis the supporting medium of which is cellulose acetate membrane (hereafter referred to as "CEA membrane").

Remarks: The following standards are cited in this Standard:

JIS C 1302 Insulation resistance testers

JIS K 3600 Technical terms for biotechnology

JIS K 3610 Technical terms for biological engineering
(Biochemistry)

JIS X 5101 The Interface between Data Circuit Terminating
Equipment (DCE) and Data Terminal Equipment
(DTE) (25-pin Interface)

2. Definitions For the purpose of this Standard, in addition to those given in JIS K 3600 and JIS K 3610, the following definitions apply.

- (1) SEA membrane The porous film the main material of which is cellulose acetate membrane.
- (2) Fraction ratio The percentage of the peak area of each component to the total area of electrophoresis diagram.
- (3) A/G ratio The ratio between the albumin peak area and the globulin peak total area of the electrophoresis diagram.

3. Rated voltage and rated frequency The rated voltage of the system shall be single-phase a.c. 100 V and the rated frequency be 50 Hz, 60 Hz or 50 Hz/60 Hz.

4. Performance The system shall conform to the following performance:

- (1) Repeatability When tested in accordance with the test method in 6.4 (1), the coefficient of variation of the fraction ratio of the albumin division shall be not more than 2.0 %.
- (2) Withstand voltage When tested in accordance with the test method in 6.4 (2), there shall be no abnormality.