



MALAYSIAN STANDARD

MS 1042-3:2015

Safety in laboratories - Code of practice - Part 3: Biosafety and biocontainment in microbiology laboratories (First revision)

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Committee representation

The Industry Standards Committee on Occupational Safety and Health (ISC W) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Business Council for Sustainability and Responsibility Malaysia
Chemical Industries Council of Malaysia
Construction Industry Development Board Malaysia
Department of Agriculture
Department of Chemistry, Malaysia
Department of Environment
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Lloyd's Register Technical Services Sdn Bhd
Malaysia International Chamber of Commerce and Industry
Malaysian Employers Federation
Malaysian Industrial Hygiene Association
Malaysian Nuclear Agency
Malaysian Society for Occupational Safety and Health
Malaysian Trades Union Congress
Mineral and Geoscience Department Malaysia
Ministry of Health Malaysia
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
SME Corporation Malaysia
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
The National University of Malaysia

The Technical Committee on Safety in Laboratories which supervised the development of this Malaysian Standard consists of representatives from the following organisations:

Department of Agriculture (Pesticides Board)
Department of Chemistry Malaysia
Department of Occupational Safety and Health Malaysia
Institute for Medical Research
Institute of Chemistry Malaysia
Jabatan Bomba dan Penyelamat Malaysia
Malaysian Industrial Hygiene Association
National Institute of Occupational Safety and Health
National Pharmaceutical Control Bureau
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Sterling Drug (M) Sdn Bhd
Suruhanjaya Tenaga
Universiti Kebangsaan Malaysia

The Working Group on Safety in Laboratories - Microbiological which developed this Malaysian Standard consists of representatives from the following organisations:

Department of Agriculture
Institute for Medical Research
International Medical University
Malaysian Industrial Hygiene Association
National Pharmaceutical Control Bureau
National Public Health Laboratory
SIRIM Berhad (Secretariat)
UKM Medical Centre
University of Malaya
Veterinary Research Institute

MS 1042-3:2015

Foreword

This Malaysian Standard was developed by the Working Group on Safety in Laboratories - Microbiological under the authority of the Industry Standards Committee on Occupational Safety and Health.

MS 1042 consists of the followings parts, under the general title *Safety in laboratories - Code of practice*:

Part 1: General

Part 2: Chemical aspects

Part 3: Biosafety and biocontainment in microbiology laboratories

Part 4: Ionising radiations

Part 5: Non-ionising radiations¹⁾

Part 6: Mechanical aspects

Part 7: Fume cupboards

Part 8: Recirculating fume cabinet²⁾

Part 9: Storage of chemicals

The objective of this standard is to promote safety in laboratories and to deal specifically with biosafety practices and containment in microbiology laboratories. It is intended to be used in conjunction with Parts 1 and 2 in the series, relating to general and chemical safety aspects of laboratory work.

This edition revises the requirements for laboratories in line with Malaysian legislations and international guidelines on biosafety.

Major modifications in this revision are as follows:

- a) the title has been changed to "Safety in laboratories - Code of practice - Part 3: Biosafety and biocontainment in microbiology laboratories";
- b) revision of the requirements for laboratories dealing with infectious diseases and the classifications of microorganisms into the four risk groups;
- c) description of the physical containment for microbiology laboratories in accordance with international guidelines;

^{1), 2)} To be develop.

Foreword *(continued)*

- d) presentation of requirements for animal, plant and arthropods containment facilities have been included; and
- e) description of aquatic animal containment section.

This standard is intended to assist in addressing the obligations placed on employers and employees under the occupational health and safety legislation.

The provisions in a code are not mandatory but give practical guidance on how to comply with the relevant provisions of the act or regulation. Users will need to consult the relevant authority to determine if this standard has been incorporated and the manner of incorporation, if any.

This Malaysian Standard cancels and replaces MS 1042: Part 3:1986, *Code of practice for safety in laboratories: Part 3: Microbiological*.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.