



Singapore standard Specification for kaya



Published by



SS 466 : 1999 (ICS 67.100.99)

SINGAPORE STANDARD

Specification for kaya

All rights reserved. Unless otherwise specified, no part of this Singapore Standard may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from Enterprise Singapore. Request for permission can be sent to: standards@enterprisesg.gov.sg.

This Singapore Standard having been approved by the Food Standards Committee was endorsed by the Standards Council on 26 May 1999.

First published, 1999

The Food Standards Committee appointed by the Standards Council consists of the following members:

		Name	Organisation
Chairman	:	Mr Wong Mong Hong	Standards Council
Secretary	:	Ms Ho Phuy Bee	Singapore Productivity and Standards Board
Members	:	Mr Chong Kok Yoong Dr Chua Sin Bin	Singapore Productivity and Standards Board Primary Production Department
		Mr Goi Seng Hui	Singapore Chinese Chamber of Commerce and Industry
		Mr Hamzah Bani	Singapore Malay Chamber of Commerce and Industry
		Dr Kwok Kain Sze	Singapore International Chamber of Commerce
		Dr Patrick Loh Heng Meng	Association of Small and Medium Enterprises
		Mr Poh Ah Seng	Singapore Food Manufacturers' Association
		Dr Sam Cheuck Tatt/	Institute of Science and Forensic Medicine
		Ms Joanne Chan Sheot Harn	
		Ms Seah Huay Leng	Ministry of the Environment
		Mr Kirpa Ram Sharma	Singapore Indian Chamber of Commerce and Industry
		Mr Tan Jin Soon	Singapore Article Number Council
		Dr Tan Kok Kheng	Singapore Confederation of Industries
		Mr Teo Hee Peng	Ministry of Defence
		Dr Mabel Yap Mei Poh	Ministry of Health
		Mr Yeoh Guan Huah	Singapore Institute of Food Science and Technology
Co-opted Members	:	Dr Pho Lay Koon	Individual Capacity

The Technical Committee for Table Sauces and Spreads appointed by the Food Standards Committee and responsible for the preparation of this standard consists of representatives from the following organisations:

		Name	Organisation
Chairman	:	Dr Sam Cheuck Tatt	Food Standards Committee
Secretary	:	Ms Jesline Lim Lay Eng	Singapore Productivity and Standards Board
Members	:	Mr Cheng Kit Tsoi	Singapore Sauce Manufacturers' Association
		Mr Foo Check Woo	Singapore International Chamber of Commerce
		Mrs Kam - Leong Yin Pheng	Singapore Productivity and Standards Board
		Mr Pek Ee Perh	Singapore Food Manufacturers' Association
		Ms Seah Huay Leng	Ministry of the Environment

SS 466: 1999

Members : Mr Tan Kay Leong Singapore Productivity and Standards Board

Mr Tan Khieng Sin Singapore Confederation of Industries

Co-opted Members

Members : Mr Andrew Chin Individual Capacity

Mr Goh Teng Huat Individual Capacity
Mr Lee Hwee Kwang Individual Capacity

Contents Page 6 **SPECIFICATION** 1 Scope _____ 7 2 Definition ___ 7 3 Requirements _____ 7 4 Sampling _____ 8 5 8 Tests 6 Packaging _____ 8 7 8 **ANNEXES** Determination of total solids _____ Α 10 Determination of protein (crude) ___ В 11 Determination of total sugar (as sucrose) С 12 D Determination of total fat 23 Ε Determination of starch 24 F Determination of free fatty acid of extracted oil (as lauric acid) 26 G Determination of peroxide value of extracted oil ______ 28 Н Determination of water activity _____ 30 Determination of total aerobic plate count (poured-plate technique) 33 Determination of total yeast and mould count (poured-plate technique) J 36 **TABLES** 1 Raw materials 9 2 Chemical and physical characteristics 9 Hammond table for calculating glucose, fructose, and invert sugar and lactose alone and in the presence of sucrose^a, with values for maltose from the Munson and 3 Walker table^b; values expressed as mg 14 4 Determination of total sugars (as invert sugar) for 10 ml Fehling's solution _____ 25 5 Water activity of reference salt slushes at 25° 31

Foreword

This Singapore Standard was prepared by the Technical Committee on Table Sauces and Spreads under the direction of the Food Standards Committee.

Kaya (coconut jam/egg jam) has its origin in the Asean region where it finds widespread usage as an economical and nutritional table spread/filling. In recent years, it has made inroads into overseas markets through its nutritional and sensory qualities, and has gained increasing acceptance and popularity among the more discerning consumers. This rich and wholesome food product is prepared from whole eggs, coconut milk, sugar, stabilisers and other permitted food additives.

The specification endeavors to establish a benchmark in regard to the quality of the product and its mode of manufacture. This is to ensure that essential ingredients used are of the stipulated quality and incorporated in the proper proportions. This standard is intended to invigorate trade and to provide the much-needed and essential consumers' protection in respect of quality and safety.

In preparing this standard, references were made to the following publications:

- 1. British Standard 5763: Part 6: 1983 Preparation of dilutions
- FDA Bacteriological Analytical Manual, 8th Edition(Revision A)/1998
 Chapter 3 Aerobic plate count
 Chapter 18 Yeasts, molds and mycotoxins
- 3. Malaysian Standard MS 713:1981 Standard for Canned Kaya
- 4. Official Methods of Analysis of the Association of Official Analytical Chemists (AOAC), 1997.
- 5. Pearson's Composition and Analysis of Foods by Ronald S. Kirt and Ronald Sawyer, 9th Edition, 1991
- 6. Singapore Standard 219:1979 Specification for dried noodles and pasta products
- 7. Standar Nasional Indonesia SNI 01-3704-1995 Srikaya

The Annex E - 'Determination of starch' is taken from MS 713 : 1981 'Standard for canned kaya' with permission from the Standards and Industrial Research Institute of Malaysia (SIRIM).

The Annex H - 'Determination of water activity' and table 3 - 'Hammond table for calculating glucose, fructose, and invert sugar and lactose alone and in the presence of sucrose^a, with values for maltose from the Munson and Walker table^b, values expressed as mg' are taken from Official Methods of Analysis of the Association of Official Analytical Chemists (AOAC), 1997 method 978.18 and its appendix C (pages 57 to 65) respectively.

Acknowledgement is made for the use of information from the above references.

The Technical Committee on Table Sauces and Spreads would like to acknowledge Mr Andrew Chin from Glory Food Products Pte Ltd for his contribution of the initial draft.

NOTE

- 1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR.
- Compliance with a SS or TR does not exempt users from any legal obligations.

Specification for kaya

1 Scope

This Singapore Standard applies to kaya, a table spread/filling for edible purposes.

Kaya in this standard shall be of the following two grades.