

Method for

Determination of stable carbon isotope ratio ($^{13}\text{C}/^{12}\text{C}$) of sugars from fruit juices, using isotope ratio mass spectrometry

ICS 67.160.20

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this Draft for Development

The preparation of this Draft for Development was entrusted to Technical Committee AW/21, Fruit and vegetable juices, upon which the following bodies were represented:

- British Fruit Juice Importers' Association
- British Retail Consortium
- British Soft Drinks Association Limited
- Campden and Chorleywood Food Research Association
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Leatherhead Food Research Association
- Ministry of Agriculture, Fisheries and Food
- Royal Society of Chemistry

This Draft for Development, having been prepared under the direction of the Consumer Products and Services Sector Board, was published under the authority of the Standards Board and comes into effect on 15 February 1997

© BSI 12-1998

The following BSI reference relates to the work on this Draft for Development:
Committee reference AW/21

ISBN 0 580 27018 1

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
Text of ENV 12140	3
List of references	Inside back cover

National foreword

This Draft for Development has been prepared by Technical Committee AW/21, and is the English language version of ENV 12140:1996 *Fruit and vegetable juices — Determination of the stable carbon isotope ratio ($^{13}\text{C}/^{12}\text{C}$) of sugars from fruit juices — Method using isotope ratio mass spectrometry*, published by the European Committee for Standardization (CEN).

ENV 12140:1996 was produced as a result of international discussions in which the United Kingdom took an active part.

This publication is not to be regarded as a British Standard

It is being issued in the Draft for Development series of publications and is of a provisional nature. It should be applied on this provisional basis so that information and experience of its practical application may be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the European organization responsible for its conversion to a European Standard. A review of this publication will be initiated 2 years after its publication by the European organization so that a decision can be taken on its status at the end of its 3-year life. The commencement of the review period will be notified by an announcement in *BSI Update*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a European Standard, to extend the life of the prestandard or to withdraw it. Comments should be sent in writing to the Secretary of BSI Technical Committee AW/21 at BSI, 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where possible, an appropriate revision of the text.

Cross-references

Publication referred to	Corresponding British Standard
ISO 3696:1987	BS EN ISO 3696:1995 <i>Specification for water for laboratory use</i>

ISO 5725:1986, to which informative reference is made in the text, has been superseded by ISO 5725-1:1994, ISO 5725-2:1994, ISO 5725-3:1994, ISO 5725-4:1994 and ISO 5725-6:1994, which are identical with the following Parts of BS ISO 5725 *Accuracy (trueness and precision) of measurement methods and results*:

BS ISO 5725-1:1994, *General principles and definitions*.

BS ISO 5725-2:1994, *Basic method for the determination of repeatability and reproducibility of a standard measurement method*.

BS ISO 5725-3:1994, *Intermediate measures of the precision of a standard measurement method*.

BS ISO 5725-4:1994, *Basic method for the determination of the trueness of a standard measurement method*.

BS ISO 5725-6:1994, *Use in practice of accuracy values*.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ENV title page, pages 2 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

ICS 67.160.20

Descriptors: Food products, beverages, fruit and vegetable juices, chemical analysis, determination, ratios, isotopes, carbon mass spectrometry

English version

Fruit and vegetable juices — Determination of the stable carbon isotope ratio ($^{13}\text{C}/^{12}\text{C}$) of sugars from fruits juices — Method using isotope ratio mass spectrometry

Jus de fruits et de légumes — Détermination du rapport des isotopes stables du carbone ($^{13}\text{C}/^{12}\text{C}$) des sucres contenus dans les jus de fruits — Méthode utilisant la spectrométrie de masse des rapports isotopiques

Frucht- und Gemüsesäfte — Bestimmung des Verhältnisses der stabilen Kohlenstoff-Isotope ($^{13}\text{C}/^{12}\text{C}$) im Zuckeranteil von Fruchtsäften — Verfahren unter Verwendung der Isotopenverhältnis-Massenspektrometrie

This European Prestandard (ENV) was approved by CEN on 1996-02-29 as a prospective standard for provisional application. The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into an European Standard (EN).

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

© 1996 Copyright reserved to CEN members