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STN	**Dojčenská výživa a výživové doplnky pre dospelých Stanovenie celkového jódu Hmotnostná spektrometria s indukčne viazanou plazmou (ICP-MS) (ISO 20647: 2015)**	**STN EN ISO 20647** 57 0549

Infant formula and adult nutritionals -Determination of total iodine - Inductively coupled plasma mass spectrometry (ICP-MS) (ISO 20647:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/20

Obsahuje: EN ISO 20647:2020, ISO 20647:2015

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EUROPÄISCHE NORM

EN ISO 20647

June 2020

ICS 67.050

English Version

Infant formula and adult nutritionals -Determination of total iodine - Inductively coupled plasma mass spectrometry (ICP-MS) (ISO 20647:2015)

Formules infantiles et produits nutritionnels pour adultes - Détermination de la teneur en iode total - Spectrométrie de masse avec plasma à couplage inductif (ICP-SM) (ISO 20647:2015)

Säuglingsanfangsnahrung und Nahrungsergänzungsmittel für Erwachsene - Bestimmung des Gesamtiods - Massenspektrometrie mit induktiv gekoppeltem Plasma (ICP-MS) (ISO 20647:2015)

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European foreword

The text of ISO 20647:2015 has been prepared by Technical Committee ISO/TC 34 "Food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20647:2020 by Technical Committee CEN/TC 302 "Milk and milk products - Methods of sampling and analysis" the secretariat of which is held by NEN.

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The text of ISO 20647:2015 has been approved by CEN as EN ISO 20647:2020 without any modification.

INTERNATIONAL STANDARD

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Infant formula and adult nutritionals — Determination of total iodine — Inductively coupled plasma mass spectrometry (ICP-MS)

Formules infantiles et produits nutritionnels pour adultes — Détermination de la teneur en iode total — Spectrométrie de masse avec plasma à couplage inductif (ICP-SM)

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Forewords

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance wit the editorial rules of ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products* and the International Dairy Federation (IDF), in collaboration with AOAC INTERNATIONAL. It is being published jointly by ISO and IDF and separately by AOAC INTERNATIONAL. The method described in this International Standard is equivalent to the AOAC Official Method 2012.15: *Total iodine in infant formula and adult/pediatric nutritional formula – inductively coupled plasma-mass spectrometry*.

IDF (the International Dairy Federation) is a non-profit private sector organization representing the interests of various stakeholders in dairying at the global level. IDF members are organized in National Committees, which are national associations composed of representatives of dairy-related national interest groups including dairy farmers, dairy processing industry, dairy suppliers, academics and governments/food control authorities.

ISO and IDF collaborate closely on all matters of standardization relating to methods of analysis and sampling for milk and milk products. Since 2001, ISO and IDF jointly publish their International Standards using the logos and reference numbers of both organizations.

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ISO 20647 | IDF 234 was prepared by the IDF Standing Committee on Analytical Methods for Composition and the ISO Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, in collaboration with AOAC INTERNATIONAL. It is being published jointly by ISO and IDF, and separately by AOAC INTERNATIONAL. The method described in this International Standard is equivalent to the AOAC Official Method 2012.15: *Total iodine in infant formula and adult/pediatric nutritional formula – inductively coupled plasma-mass spectrometry*.

All work was carried out by the ISO-IDF Project Group C37 of the Standing Committee on *Analytical Methods for Composition* under the aegis of its project leader, Mr Erik Konings (CH).

INTERNATIONAL STANDARD

ISO 20647:2015(E)
IDF 234:2015(E)

Infant formula and adult nutritionals — Determination of total iodine — Inductively coupled plasma mass spectrometry (ICP-MS)

WARNING — The use of this International Standard can involve hazardous materials, operations and equipment. This International Standard does not purport to address all the safety problems associated with its use. It is the responsibility of the user of this International Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies a method for the quantitative determination of total iodine in infant formula and adult nutritional formula.[1] The method is applicable to the measurement of total iodine in infant formula and adult nutritional formula from 0,5 µg/100g to 1 500 µg/100g reconstituted final product and for ready-to-feed products from 2,5 µg/100 g to 1 000 µg/100 g using ICP-MS.

Using various infant formula and adult nutritional products, the method was subjected to an interlaboratory study. Levels obtained ranged from 3,47 µg/100 g to 124 µg/100 g. For all precision data related to the interlaboratory study, see Table A.1 located in Annex A.