



Irish Standard
I.S. EN ISO 5983-2:2009

Animal feeding stuffs - Determination of nitrogen content and calculation of crude protein content - Part 2: Block digestion and steam distillation method (ISO 5983-2:2009)

I.S. EN ISO 5983-2:2009

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English Version

**Animal feeding stuffs - Determination of nitrogen content and
calculation of crude protein content - Part 2: Block digestion and
steam distillation method (ISO 5983-2:2009)**

Aliments des animaux - Dosage de l'azote et calcul de la
teneur en protéines brutes - Partie 2: Méthode de digestion
en bloc et distillation à la vapeur (ISO 5983-2:2009)

Futtermittel - Bestimmung des Stickstoffgehaltes und
Berechnung des Rohproteingehaltes - Teil 2:
Blockaufschluss- und Dampfdestillationsverfahren (ISO
5983-2:2009)

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EN ISO 5983-2:2009 (E)

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Foreword

This document (EN ISO 5983-2:2009) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 327 "Animal feeding stuffs - Methods of sampling and analysis", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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INTERNATIONAL STANDARD

ISO
5983-2

Second edition
2009-06-01

Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content —

Part 2: Block digestion and steam distillation method

*Aliments des animaux — Dosage de l'azote et calcul de la teneur en
protéines brutes —*

Partie 2: Méthode de digestion en bloc et distillation à la vapeur



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 5983-2 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 10, *Animal feeding stuffs*.

This second edition cancels and replaces the first edition (ISO 5983-2:2005), which has been technically revised.

ISO 5983 consists of the following parts, under the general title *Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content*:

- *Part 1: Kjeldahl method*
- *Part 2: Block digestion and steam distillation method*

Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content —

Part 2: Block digestion and steam distillation method

WARNING — The use of this method may involve the use of hazardous materials, operations and equipment. This part of ISO 5983 does not purport to address all the safety risks associated with its use. It is the responsibility of the user of this method to establish appropriate health and safety practices and determine the applicability of local regulatory limitations prior to use.

1 Scope

This part of ISO 5983 specifies a method for the determination of nitrogen content of animal feeding stuffs according to the Kjeldahl method, and a method for the calculation of the crude protein content.

It is suitable for use as a semi-micro rapid routine method using block digestion, copper catalyst, and steam distillation into boric acid.

The method is applicable to the determination of greater than 0,5 % mass fraction Kjeldahl nitrogen in animal feeding stuffs, pet foods, and their raw materials.

The method does not measure oxidized forms of nitrogen nor heterocyclic nitrogen compounds.

The method does not distinguish between protein nitrogen and non-protein nitrogen.

NOTE If it is of importance to determine the content of non-protein nitrogen, an appropriate method can be used.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referred document (including any amendments) applies.

ISO 1871, *Food and feed products — General guidelines for the determination of nitrogen by the Kjeldahl method*

ISO 6498, *Animal feeding stuffs — Guidelines for sample preparation* ¹⁾

1) To be published. (Revision of ISO 6498:1998)

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