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

**Part 2:
Block digestion/steam distillation method**

*Aliments des animaux — Détermination de la teneur en azote et calcul
de la teneur en protéines brutes —*

Partie 1: Méthode de digestion en bloc et distillation à la vapeur



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Principle	2
5 Reagents	2
6 Apparatus	4
7 Sampling	4
8 Preparation of test sample	5
9 Procedure	5
10 Calculation and expression of results	7
11 Precision	8
12 Test report	9
Annex A (informative) Results of interlaboratory test	10
Annex B (informative) Automatic distillation with potentiometric endpoint detection	13
Bibliography	14

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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

This first edition of ISO 5983-2, together with ISO 5983-1:2005, cancels and replaces ISO 5983:1997, 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/steam distillation*

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

Part 2: Block digestion/steam distillation method

WARNING — The use of this method may involve the use of hazardous materials, operations and equipment. This standard 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 concerns 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 % 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 385:2005, *Laboratory glassware — Burettes*

ISO 1871, *Agricultural food products — General directions for the determination of nitrogen by the Kjeldahl method*

ISO 6498:1998, *Animal feeding stuffs — Preparation of test samples*