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Cereals, pulses and cereal products — Sampling — Simplified routine method

Céréales, légumineuses et produits céréaliers — Échantillonnage — Méthode de routine simplifiée

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Foreword

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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 document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 34, *Food products,* Subcommittee SC 4, *Cereals and pulses.*

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

Sampling is a procedure that requires both a method and equipment that are suitable for the task. Any analysis of the characteristics of a lot and any interpretation of the results would prove futile if the sample were not representative of the lot from which it was taken.

Sampling is a delicate procedure that requires a great deal of care. It is strongly recommended that the task is entrusted to personnel who have been previously trained to use the appropriate equipment.

As these procedures are complex for first elevators, the simplified routine method given in this document has been developed in order to allow an easier daily application in the grain sector.

The representativity of the samples taken according to the method described in this document was experimentally compared to that of those taken using the reference method given in ISO 24333 and European regulation N° 401/2006[7].

For the results of these studies, see ISO/TR 29263:2021, Clause 6, in which the method of this document is called “routine” and the protocol of the reference method is called “normative”.

ISO/TR 29263[3] shows that, in some cases, the sampling error can be greater when using the method described in this document compared with the reference method. It is the responsibility of the operator to decide whether the greater sampling error from using this document is acceptable or not.

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Cereals, pulses and cereal products — Sampling — Simplified routine method

1 Scope

This document specifies a simplified routine method for the dynamic or static sampling, by manual or mechanical means, of cereals, pulses and cereal products to assess their quality and condition.

It is applicable to sampling for the determination of heterogeneously distributed contaminants, undesirable substances and parameters usually homogenously distributed, such as those used to assess quality or compliance with a specification. It is applicable to daily use in the field, and in silos and factories that ship or receive grains.

It does not apply to determining insect infestation in a grain lot. Methods for assessing insect populations are provided in ISO 16002 and ISO 6639-2.

This document does not apply to seeds.

NOTE The sampling of seeds is governed by the rules established by the International Seed Testing Association (ISTA).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 24333, *Cereals and cereal products — Sampling*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 24333 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
lot
identified quantity of product (cereals or cereal products) of which a sample can be taken and controlled to determine one (or several) given characteristic(s)

3.2
sampling
act of drawing or constituting a sample

[SOURCE: ISO 3534-2:2006, 1.3.1]

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