



**Specific Accreditation Criteria
Reference Material Producers ISO 17034
Annex**

Reference Grain Producers

January 2018



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Reference Grain Producers

This document provides interpretative criteria and recommendations for the application of ISO 17034 for Reference Material Producers (RMP) for both applicant and accredited facilities.

Applicant and accredited facilities must also comply with ISO 17034 and the NATA ISO 17034 Standard Application Document (SAD).

The clause numbers in this document follow those of ISO 17034 *General requirements for the competence of reference material producers* but since not all clauses require interpretation the numbering may not be consecutive.

This annex details specific requirements for accreditation of reference grain producers under the following categories and sub-categories of reference materials.

CATEGORY A CHEMICAL COMPOSITION

A3 Organic reference materials

A3.2 Agricultural materials, fertilisers

A3.3 Foodstuffs

Proximate analysis

Nutritional properties

Vitamins

Other food additives

 antioxidants

 emulsifiers

Toxins

 animal origin

 plant origin

 other biological origin

Trace elements

Trace organics

 pesticide residues

 other organic contaminants

The accreditation of reference grains covers measuring, characterising and assigning values for protein content in wheat and barley (e.g. using the Dumas and Near-infrared (NIR) spectroscopic techniques). The addition of other types of grain materials will be considered on request. The Scope of Accreditation for the production of reference grains will include the following comments, as applicable, under the relevant sub-categories:

- Production of a certified reference material for total protein analysis in wheat and barley and assigning of a property value and associated uncertainty of measurement by Dumas combustion.

- Production of a certified reference material for total protein analysis in wheat and barley and assigning of a property value and associated uncertainty of measurement by NIR techniques.

The clause numbers in this section follow those of ISO 17034 but since not all clauses require interpretation the numbering may not be consecutive.

6.3 Provision of equipment, services and supplies

6.3.3 For NIR instrumentation, the facility must ensure information regarding the reference grains and/or control check samples used for checking the (daily) stability of the instrument is maintained.

6.3.4 Records of grain suppliers whose grain is used for collaborative studies must be maintained.

7.4 Material handling and storage

Samples should be stored dry in airtight containers when not in use, at ambient room temperature and away from direct sunlight.

7.16 Control of quality and technical records

7.16.2 For each batch of candidate and reference grain held by the facility, the following details, as a minimum, must be recorded:

- storage location;
- type of grain;
- quantity of grain;
- indicative value.

For reference grain, the following information must also be recorded:

- assigned value of grain, if possible;
- date produced;
- regulatory conditions applying to the grain e.g. in relation to quarantine, export, containment levels etc.

References

This section lists publications referenced in this document. The year of publication is not included as it is expected that only current versions of the references shall be used.

Standards

ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories

Amendment Table

The table below provides a summary of changes made to the document with this issue.

AMENDMENT TABLE	
Section or Title	Amendment
New document	<p>This document represents a direct adoption of the former Reference Material Producers ISO 17034 Standard Application Document Appendix C.</p> <p>The document has been reviewed and updated to reflect the new accreditation criteria documentation structure.</p>