

ICS 67.060

DRAFT EAST AFRICAN STANDARD

Finger millet grains — Specification

EAST AFRICAN COMMUNITY

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Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

In order to achieve this objective, the Community established an East African Standards Committee mandated to develop and issue East African Standards.

The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the private sectors and consumer organizations. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the procedures of the Community.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standard

Finger millet grains — Specification

1 Scope

This East African Standard specifies the requirements sampling and test methods for finger millet grains of varieties (cultivars) grown from *Eleusine coracana* (L.) Gaertner intended for human consumption.

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 document (including any amendments) applies.

EAS 901, Cereal and Pulses - Test methods EAS 900, Cereal and Pulses - Sampling

EAS 38, Labelling of pre-packaged foods — Specification

EAS 39, Code of Hygiene Practice in Food and Drink Manufacturing Industry

CODEX STAN 193, Codex general standard for contaminants and toxins in food and feed

3 Terms and Definition

For the purposes of this standard, the following terms and definitions shall apply.

3.1

finger millet grain

grain having the characteristics of the species Eleusine coracana (L.) Gaertner

3.2

foreign matter

all organic and inorganic material other than maize grain, broken kernels and other grains

3.2.1

inorganic matter

stones, glass, pieces of soil and other mineral matter

3.2.2

organic matter

any animal or plant matter (seed coats, straws, weeds) other than grain of maize, damaged maize grain, other grains, inorganic extraneous matter and harmful/toxic seeds.

3.3

filth

impurities of animal origin

3.4

other edible grains

edible grains (including oil seeds) other than finger millet

3.5

defective/ damaged grains

grains that are sprouted, pest or weather damaged.

3.6

pest damaged grain

grain which shows damage or owing attack by rodents, insects, mites or other pests

3.7

harmful/noxious seeds

seeds such as Jimson weed — Datura (D. fastuosa Linn and D. stramonium Linn.) corn cokle (Agrostemma githago L., Machai Lallium remulenum Linn.) Akra (Vicia species), Argemone mexicana, Khesari and other seeds which can have a damaging or dangerous effect on health, sensory properties or technological performance

3.8

food grade packaging material

material, made of substances which are safe and suitable for their intended use and which will not impart any toxic substance or undesirable odour or flavour to the product

3.9

test weight

density of a measured volume of grain expressed in kilograms per hectoliter.

4 Quality requirements

4.1 General requirements

Finger millet grains shall be:

- a) clean, wholesome, uniform in size and shape;
- b) well-filled grains of uniform colour;
- c) free from musty or other undesirable odour.
- d) practically free from live pests;
- e) practically free from noxious or harmful seeds in amounts that could be harmful to human health.

4.2 Specific requirements

Finger millet shall comply with the limits given in Table 1 when tested in accordance with the test methods specified therein.

Table 1 — Specific requirements

S/N	Characteristic	Grade			Test Method
		1	2	3	
i	Foreign Matter % m/m	1.0		•	EAS 901,Clause 4
ii	Inorganic % m/m	0.25			EAS 901,Clause 4
iii	Other Edible grains % m/m	1.5	İ		EAS 901,Clause 4
iv	Damaged grains % m/m	5.0			EAS 901,Clause 4
v	Moisture content % m/m	13.	.5		EAS 901,Clause 5
vi	Test weight kg/hl	75	-82		EAS 901,Clause 8
viii	Filth % m/m	0.1			EAS 901,Clause 4

5 Contaminants

5.1 Pesticide residues

Finger millet grains shall comply with those maximum pesticide residue limits established by the Codex Alimentarius Commission for this commodity.

NOTE: Where the use of certain pesticides is prohibited by some Partner States, it should be notified to all Partner States accordingly.

5.2 Other contaminants

Finger millet grains shall comply with those maximum limits for other contaminants established in CODEX STAN 193.

5.2.1 Heavy metals

Finger millet grain shall comply with those limits for heavy metals specified in CODEX STAN 193 established by the Codex Alimentarius Commission.

5.2.2 Mycotoxin

Finger millet grain shall comply with the mycotoxin limits established by the Codex Alimentarius Commission as given in Table 2 when tested in accordance with the test methods specified therein

Table 2 — Mycotoxins limits for Finger millet grains

S/N	Mycotoxin	limit	Test method	
i.	Total Aflatoxin	10	EAS901, Clause 9	
	(AFB1+AFB2+AFG1+AFG2),		or 10	
	ppb, max			
ii.	Aflatoxin B ₁ ppb, max	5		
iii.	Fumonisins ppm, max	2	EAS901, 10 or 11	

6 Hygiene

Finger millet shall be produced, prepared and handled in accordance with the provisions of appropriate sections of EAS 39

7 Weight and Measures

Finger millet grains shall be packaged in accordance with the weights and measures regulations of the destination country.

NOTE EAC Partner States are signatory to the International Labour Organizations (ILO) for maximum package weight of 50 kg where human loading and offloading is involved.

8 Packaging

8.1 Finger millet grains shall be packed in food grade packaging materials which will safeguard the hygienic, nutritional and organoleptic qualities of the product

8.2 Each package shall be securely closed and sealed.

9.0 Labelling

- **9.1** In addition to the requirements in EAS 38, each package shall be legibly and indelibly labelled with the following:
- a) product name as "Finger millet grains";
- b) grade;
- c) name, address and physical location of the producer/packer/importer;
- d) lot/batch/code number;
- e) net weight, in kilograms;
- f) the declaration "Food for Human Consumption";
- g) storage instruction as "Store in a cool dry place away from any contaminants";
- h) crop year;
- i) packing date;
- j) instructions on disposal of used package;
- k) country of origin; and
- l) declaration on whether the Sorghum was genetically modified, where applicable.

9.2 Labelling of non-retail containers

Information detailed in 10.1 shall be given either on the container or in accompanying documents, except that the name of the product, lot identification and the name and address of the processor or packer as well as storage instructions, shall appear on the container. However, lot identification and the name and address of the processor or packer may be replaced by an identification mark provided that such a mark is clearly identifiable with the accompanying documents.

10 Sampling

Sampling shall be done in accordance with the EAS 900.