

DRAFT UGANDA STANDARD

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Dry roasted silver cyprinid (Mukene) — Specification



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Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to co-ordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
- (b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 2, *Food and Agricultural products*, Subcommittee SC 10, *Fish and fishery products*.

Dry roasted silver cyprinid (Mukene) — Specification

1 Scope

This Draft Uganda Standard specifies requirements and methods of sampling and test for dry roasted silver cyprinid (*Mukene*) of the species *Rastrineobola argentea*, intended for human consumption

2 Normative references

The following referenced documents 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.

US EAS 38, *General standard for the labelling of pre-packaged foods*

US EAS 39, *Code of practice for hygiene in the food and drink manufacturing industry*

US 45, *General standard for food additives*

US 500, *General requirements for nutrition labelling of foods*

US 508, *General requirements for nutrition and health claims on foods*

US 566, *Use of nutrition claims — Requirements*

US 738, *General standard for contaminants and toxins in food and feed*

US EAS 826, *Dried silver cyprinid (Mukene) — Specification*

US ISO 4831, *Microbiology of foods and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique*

US ISO 4833, *Microbiology of foods and animal feeding stuffs — Horizontal method for the enumeration of microorganisms — Colony count technique at 30 °C technique*

US ISO 5985, *Animal feeding stuffs — Determination of ash insoluble in hydrochloric acid*

US ISO 6490-1, *Animal feeding stuffs — Determination of calcium content — Part 1: Titrimetric method*

US ISO 6579, *Microbiology of food and animal feeding stuffs — Horizontal method for the detection of *Salmonella* spp. (Cor_1_2004)*

US ISO 6888-1, *Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) — Part 1: Technique using Baird-Parker agar medium*

US ISO 7251, *Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of presumptive *Escherichia coli* — Most probable number technique.*

US ISO 7937, *Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count*

US ISO 11290-2, *Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of Listeria monocytogenes — Part 2: Enumeration method*

US ISO 13720, *Meat and meat products — Enumeration of presumptive Pseudomonas spp.*

US ISO 21527-2, *Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0.95*

3 Terms and definitions

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

3.1

dry roasted silver cyprinid (*Mukene*)

product produced by roasting dried silver cyprinid (*Mukene*)

3.2

foreign matter

organic and inorganic materials (such as sand, soil, glass) other than extraneous matter in the dry roasted cyprinid (*Mukene*)

3.3

extraneous matter

organic matter of silver cyprinid (*Mukene*) origin other than dry roasted cyprinid (*Mukene*)

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

— ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Essential quality and composition requirements

4.1 General Requirements

4.1.1 Raw materials

The raw material shall be dried silver cyprinid (*Mukene*) of sound quality that complies with the requirements of US EAS 826.

4.1.2 Finished product

Dry roasted silver cyprinid (*Mukene*) shall be safe and suitable for human consumption and shall conform to the following requirements. It shall:

- have taste and odour typical of the product;
- have colour characteristic of the variety;
- be free from any indication of spoilage; and
- be free from extraneous and foreign matter

4.3 Specific requirements

4.3.1 The dry roasted silver cyprinid (*Mukene*) shall comply with the requirements of Table 1

Table 1 — specific Requirements for dry roasted silver cyprinid (*Mukene*)

Parameter	Requirement	Test method
Moisture content, % m/m, max	10	US ISO 6496
Total ash content, % max	15	AOAC 923.03
Acid insoluble ash, % max	0.5	US ISO 5985
Crude fat, % max	14	AOAC 922.06

5 Food additives

Food additives used in the preparation of dry roasted silver cyprinid (*Mukene*) shall be in accordance with US 45.

6 Hygiene

Dry roasted silver cyprinid (*Mukene*) shall be produced and handled in a hygienic manner in accordance with US EAS 39.

Dry roasted silver cyprinid (*Mukene*) shall comply with the microbiological limits given in Table 2.

Table 2 — Microbiological limits for dry roasted silver cyprinid (*Mukene*)

Microorganisms	Requirement	Test Method
<i>Salmonella</i> in 25 g, max.	Absent	FDUS ISO 6579
<i>E. coli</i> /g, max.	Absent	US ISO 7251
<i>Staphylococcus aureus</i> /10 g, max.	10 ³	US ISO 6888-1
Total viable count/g, max	10 ⁵	FDUS ISO 4833
Yeast and moulds cfu/g	10	US ISO 21527-2
<i>Clostridium perfringens</i> /g, max	Absent	FDUS ISO 7937

7 Contaminants

7.1 Heavy metals

Dry roasted silver cyprinid (*Mukene*) shall conform to the heavy metal limits given in Table 3 when tested in accordance with the methods prescribed therein.

Table 3 — Heavy metal limits for fried fish

Heavy Metal	Maximum Limit Mg/kg	Test Method
Arsenic	0.1	AOAC 952.13
Lead	0.3	AOAC 972.23
Cadmium	0.3	AOAC 973.34
Methyl Mercury	0.5	AOAC 983.20

7.2 Aflatoxins

When tested in accordance with ISO 16050, the level of total aflatoxin in dry roasted silver cyprinid (*Mukene*) shall not exceed 10 µg/kg.

7.3 Veterinary drug residues

Dry roasted silver cyprinid (*Mukene*) shall conform to those maximum veterinary drug residue limits established by the Codex Alimentarius Commission.

7.4 Pesticide residues

The product shall conform to those maximum pesticides residue limits established by the Codex Alimentarius Commission.

8 Weights and measures

The weight of the product shall conform to Weights and Measures regulations of Uganda.

9 Packaging

Dry roasted silver cyprinid (*Mukene*) shall be packaged in accordance with US 1659.

10 Labelling

10.1 Labelling of retail packages

In addition to the requirements in EAS 38, the following specific labelling requirements shall apply and shall be legibly and indelibly marked:

- name of the product as “Dry roasted silver cyprinid (*Mukene*)”; with a common name or species name;
- name and physical address of processor/packer;
- net weight in SI (Système International) Units (metric system);
- list of ingredients in descending order of proportion;
- date of packaging;
- batch or lot number;
- date of expiry;

- h) storage instructions;
- i) instruction for use; and
- j) country of origin.

10.2 Nutritional labelling, nutrition and health claims

Nutritional labelling, nutrition and health claims may be made in accordance with EAS 803, EAS 804 and EAS 805.

11 Sampling

Sampling shall be done in accordance with US CAC/GL 50.

Certification marking

Products that conform to Uganda standards may be marked with Uganda National Bureau of Standards (UNBS) Certification Mark shown in the figure below.

The use of the UNBS Certification Mark is governed by the Standards Act, and the Regulations made thereunder. This mark can be used only by those licensed under the certification mark scheme operated by the Uganda National Bureau of Standards and in conjunction with the relevant Uganda Standard. The presence of this mark on a product or in relation to a product is an assurance that the goods comply with the requirements of that standard under a system of supervision, control and testing in accordance with the certification mark scheme of the Uganda National Bureau of Standards. UNBS marked products are continually checked by UNBS for conformity to that standard.

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