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## DRAFT EAST AFRICAN STANDARD

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Compounded cat food — 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.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. 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 Principles and procedures for development of East African Standards.

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 standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 001, *Animal feeds and feeding stuffs*.

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

## Compounded cat food — Specification

### 1 Scope

This Draft East African Standard specifies requirements, sampling, and test methods for compounded cat food.

### 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 5510, Animal feeding stuffs — Determination of available lysine*

*ISO 5983-1, Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content — Part 1: Kjeldahl method*

*ISO 5984, Animal feeding stuffs — Determination of crude ash*

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

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

*ISO 6491, Animal feeding stuffs — Determination of phosphorus content — Spectrometric method*

*ISO 6492, Animal feeding stuffs — Determination of fat content*

*ISO 6495, Animal feeding stuffs — Determination of water-soluble chlorides content*

*ISO 6496, Animal feeding stuffs — Determination of moisture and other volatile matter content*

*ISO 6497, Animal feeding stuffs — Sampling*

*ISO 6865, Animal feeding stuffs — Determination of crude fibre content — Method with intermediate filtration*

*ISO 9831, Animal feeding stuffs, animal products, and faeces or urine — Determination of gross calorific value — Bomb calorimeter method*

*ISO 13903, Animal feeding stuffs — Determination of amino acids content*

*ISO 14718, Animal feeding stuffs — Determination of aflatoxin B1 content of mixed feeding stuffs — Method using high-performance liquid chromatography*

*ISO 17375, Animal feeding stuffs — Determination of aflatoxin B1*

*ISO 16050, Foodstuffs — Determination of aflatoxin B1, and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products — High-performance liquid chromatographic method*

### 3 Terms and definitions

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

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>

#### 3.1

##### **cat food**

food used to feed cats, including dry and wet cat food

#### 3.2

##### **compounded cat food**

cat food which should contain nutrients to meet daily nutritional requirements

#### 3.3

##### **compounded food**

mixture of at least two feed ingredient, whether or not containing feed additives, for oral animal feeding in the form of a complementary feed or a complete feed

#### 3.4

##### **feed (feedingstuff)**

any single or multiple materials, whether processed, semi-processed or raw, which is intended to be fed directly to food producing animals.

#### 3.5

##### **food ingredient**

component part or constituent of any mixture making up a feed, whether or not it has a nutritional value in the animal's diet, including feed additives

Note 1 to entry: Ingredients are of plant, animal or aquatic origin, or other organic or inorganic substances.

### 4 Requirements

#### 4.1 General requirements

##### 4.1.1 Ingredients for compounded cat food

4.1.1.1 All ingredients and raw materials shall be of high quality and shall be of sound condition and not decomposed or deteriorated.

4.1.1.2 Ingredients of animal origin shall be sterilized before use.

4.1.1.3 Vitamin preparations added to feed shall be in stabilised form.

##### 4.1.2 General quality requirements

Compounded cat food shall be:

- a) either dry or wet, raw or pre-cooked;
- b) in the form of pellet, cube or mash

- c) free from rancidity, musty odour, toxic ingredients, adulterants, mould and insect pest infestation; and
- d) palatable.

## 4.2 Specific requirements

4.2.1 Compounded cat food shall comply with the specific requirements given in Table 1.

**Table 1 — Specific requirements for compounded cat food**

S/N	Parametera	Requirement		Test method
		% m/m		
		Adult feed	Kitten/reproduction feed	
i.	Moisture, max.	10.0	10.0	ISO 6496
ii.	Carbohydrate content (max.)	60	60	AOAC 2020.07
iii.	Crude protein (N×6.25), min.	25.0	30	ISO 5983-1
iv.	Crude fat, min.	9.0	9.0	ISO 6492
v.	Crude fibre, max.	5.0	4.0	ISO 6865
vi.	Crude ash, max.	6.0	6.0	ISO 5984
vii.	Calcium, min.	0.59	1.0	ISO 6490-1
viii.	Phosphorus, min.	0.50	0.84	ISO 6491
Ca / P ratio		1/1 – 2/1	1/1 – 1.5/1	-
a All parameters except moisture shall be on dry matter basis.				

4.2.2 Compounded cat food may contain vitamins and minerals as listed in Annex B

## 5 Feed additives

5.1 Additives in the following categories may be used in compounded rabbit feed and if used, .

- a) antioxidants;
- b) colourants;
- c) emulsifiers;
- d) stabilisers;
- e) thickeners and gelling agents;
- f) binders;
- g) anti-caking agents and coagulants;
- h) aromatic and appetising substances;
- i) enzymes; and



j) preservatives.

NOTE 1 Materials intended for mixing with animal feed as additives for use as feeding stuffs should specify the kind of and, if appropriate the age group of the animal for which the feed is intended. In addition the quantity in grams per kilogram (or percent by weight) of the complete feed which conform to the provisions of this standard should be stated in the label.

NOTE 2 No antibiotic, hormone substance, drug shall be added to or included in a feed other than such ingredients required to satisfy this standard and approved by World organization for animal health (OIE).

## 6 Contaminants

### 6.1 Aflatoxins

Compounded cat feed shall comply with the maximum aflatoxin requirements stated in the Table 2 when tested in accordance with the methods specified therein.

**Table 2 — Limits for aflatoxin in compounded rabbit feed**

S/N	Aflatoxin type	Maximum limit , µg/kg	Test method
i.	Total aflatoxin	10	ISO 16050 ISO 14718 ISO 17375
ii.	Aflatoxin B <sub>1</sub>	5	ISO 6651

### 6.2 Pesticide residues

Compounded cat food shall comply with those maximum pesticide residue limits established by the Codex Alimentarius Commission.

### 6.3 Heavy metals

Compounded cat food shall comply with the limits of heavy metals as specified in the Table 3 when tested in accordance with the methods specified therein.

**Table 3 — Heavy metal limits for compounded cat food**

S/N	Heavy metal	Maximum limit mg/kg	Test method
i. i.	Arsenic	2.0	ISO 27085
ii.	Lead	5.0	
iii.	Cadmium	1.0	

## 7 Hygiene

7.1 Compounded cat food premix shall be produced and handled in accordance with CAC/RCP 54.

7.2 Compounded cat food shall comply with microbiological limits as shown in Table 4.

**Table 4 — Microbiological requirements for compounded cat food**

<b>S/N</b>	<b>Microorganism</b>	<b>Status</b>	<b>Test method</b>
i.	Salmonella spp	Absent	ISO 6579-1
ii.	Escherichia coli	Absent	ISO 16654

## **8 Packaging**

Compounded cat food shall be packaged in clean polypropylene bags or other suitable container lined with polythene which are of sufficient strength and shall be properly sealed so as to withstand reasonable handling without tearing or bursting or falling open during storage.

## **9 Labelling**

Each bag or container shall be legibly and indelibly marked and labelled to display the following information:

- a) name of product as “Compounded cat food”;
- b) name and address of the manufacturer/packer/exporter;
- c) date of manufacture;
- d) expiry date (best before date);
- e) net weight (metric units);
- f) nutritional declaration;
- g) instruction for use and storage;
- h) batch/lot number; and
- i) country of origin.

## **10 Sampling**

Sampling shall be done in accordance with ISO 6497.

## **Annex A** **(normative)**

### **Compounded cat food ingredients**

The following ingredients may be used in the manufacture of compounded cat food:

#### **A.1 Grain products**

- a) Maize flour;
- b) Wheat flour;
- c) Oat flour;
- d) Pollard;
- e) Barley;
- f) Wheat bran;
- g) Wheat germ;
- h) Rice;
- i) Sorghum;
- j) Maize germ meal; and
- k) Maize bran.

#### **A.2 Animal products**

- a) Bonemeal;
- b) Blood meal;
- c) Meat/bonemeal;
- d) Meat meal;
- e) Offal meals (treated);
- f) Dried skimmed milk;
- g) Dry whey;
- h) Cheese meal;
- i) Poultry by-products (excluding manure);
- j) Hydrolysed feather meal;

- k) Fishmeal; and
- l) Whole milk.

### **A.3 Plant products (other than cereal based)**

- a) Soybean meal;
- b) Alfalfa meal (lucerne meal) - dried grass meal; and
- c) Potatoes (*solanum tuberosum*).

### **A.4 Industrial by-products**

- a) Sunflower cakes;
- b) Brewer's yeast and dried grains; and
- c) Sugarcane molasses.

### **A.5 Other ingredients**

- a) Common salt;
- b) Dicalcium phosphate (fluorine content not to exceed 0.2 %);
- c) Calcium lactate;
- d) Limestone; and
- e) Vitamin and mineral premixes.

**Annex B**  
(informative)

**Vitamins in compounded cat food**

**Table B.1 — Minimum requirements for vitamins in compounded cat food**

S/N	Vitamin	Requirement	
		Adult	Kitten/reproduction
i.	Vitamin A, IU/kg, min.	333	900
ii.	Vitamin D, IU/kg, min.	25.0	75.0
iii.	Vitamin E, IU/kg, min.	3.80	3.80
iv.	Thiamine (B <sub>1</sub> ), mg/kg, min.	0.56	0.55
v.	Riboflavin (B <sub>2</sub> ), mg/kg, min.	0.40	0.40
vi.	Pantothenic acid, mg/kg, min.	0.58	0.57
vii.	Pyridoxine (B <sub>6</sub> ), mg/kg, min.	0.25	0.40
viii.	Niacin, mg/kg, min.	4.00	4.00
ix.	Choline, mg/kg, min.	240	240
x.	Vitamin B <sub>12</sub> , µg/kg, min.	2.25	2.00
xi.	Folic acid, µg/kg, min.	80.0	80.0
xii.	Biotin, µg/kg, min.	7.50	7.00
xiii.	Vitamin K, µg/kg, min.	10.0	10.0

**Table B.2 — Requirements for minerals in compounded cat food**

S/N	Mineral	Requirement mg/kg	
		Adult	Kitten/reproduction
i.	Iron, min.	8.00	8.00
ii.	Copper, min.	0.50	1.00
iii.	Manganese, min.	0.50	1.00
iv.	Zinc, min.	7.50	7.50
v.	Iodine, min.	0.05	0.18
vi.	Selenium, max.	0.03	0.03
vii.	potassium, min.	0.60	0.60
viii.	Sodium, min.	0.08	0.16
ix.	Chloride, min.	0.11	0.24
x.	Magnesium, min.	0.04	0.05

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