DRAFT EAST AFRICAN STANDARD

Compounded dog food — Specification — Part 2: Complementary food

EAST AFRICAN COMMUNITY
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Foreword

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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.

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Compounded dog food — Specification — Part 2: Complementary food

1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for complementary dog 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 6496, Animal feeding stuffs — Determination of moisture and other volatile matter content
ISO 5983-1, Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content — Part 1: Kjeldahl method
ISO 6492, Animal feeding stuffs — Determination of fat content
ISO 6865, Animal feeding stuffs — Determination of crude fibre content — Method with intermediate filtration
ISO 5984, Animal feeding stuffs — Determination of crude ash
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 6495, Animal feeding stuffs — Determination of water-soluble chlorides content
ISO 27085, Animal feeding stuffs — Determination of calcium, sodium, phosphorus, magnesium, potassium, iron, zinc, copper, manganese, cobalt, molybdenum, arsenic, lead and cadmium by ICP-AES
ISO 6497, Animal feeding stuffs — Sampling
ISO 6579-1, Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.
ISO 16654, Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Escherichia coli O157
ISO 6651, Animal feeding stuffs — Semi-quantitative determination of aflatoxin B1 — Thin-layer chromatographic methods
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
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

3 Terms and definitions

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

complementary dog food
compound dog food that has a high content of certain nutrients but not sufficient for a ration and so is used in combination with other food

4 Requirements

4.1 General requirements

Complementary dog food shall be:

a) either dry or wet, raw or pre-cooked;

b) free from rancidity, musty odour, toxic ingredients, adulterants, mould and insect infestation; and

c) Palatable.

4.2 Specific requirements

Complementary dog food shall comply with the specific requirements given in Table 1 when tested in accordance with the test methods specified therein.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Parameter</th>
<th>Requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Metabolisable energy, kcal/kg, min.</td>
<td>2 200</td>
<td>ISO 6496</td>
</tr>
<tr>
<td>ii.</td>
<td>Moisture contenta, % m/m, max.</td>
<td>85</td>
<td>ISO 6496</td>
</tr>
<tr>
<td>iii.</td>
<td>Crude protein, % m/m, min.</td>
<td>5</td>
<td>ISO 5983-1</td>
</tr>
<tr>
<td>iv.</td>
<td>Crude fat, % m/m, min.</td>
<td>2</td>
<td>ISO 6492</td>
</tr>
<tr>
<td>v.</td>
<td>Crude fibre, % m/m, max.</td>
<td>7</td>
<td>ISO 6865</td>
</tr>
<tr>
<td>vi.</td>
<td>Acid insoluble ash, % m/m, max.</td>
<td>8</td>
<td>ISO 5984</td>
</tr>
<tr>
<td>vii.</td>
<td>Total ash, % m/m, max.</td>
<td>12</td>
<td>ISO 6490-1</td>
</tr>
<tr>
<td>viii.</td>
<td>Calcium, g/kg</td>
<td>0.20 - 1.0</td>
<td>ISO 6491</td>
</tr>
<tr>
<td>ix.</td>
<td>Phosphorous, g/kg</td>
<td>0.01 - 1.0</td>
<td>ISO 6495</td>
</tr>
<tr>
<td>x.</td>
<td>Sodium, g/kg, max.</td>
<td>0.1</td>
<td>ISO 7485</td>
</tr>
<tr>
<td>xi.</td>
<td>Chloride, g/kg, max.</td>
<td>0.2</td>
<td>ISO 27085</td>
</tr>
</tbody>
</table>

a Dry dog food shall not contain more than 15 % of moisture content.
5 Feed additives

Complementary dog food may have feed additives established by the Codex Stan 192.

6 Contaminants

6.1 Pesticide residues

Complementary dog food shall comply with the maximum pesticide residue limits established by the Codex Alimentarius Pesticide Database.

6.2 Heavy metals

Complementary dog food shall comply with those maximum limits for heavy metals established in CODEX STAN 193.

6.3 Aflatoxin

Complementary dog food shall comply with the maximum limits for aflatoxins given in Table 2 when tested in accordance with the test methods specified therein.

<table>
<thead>
<tr>
<th>Table 2 — Limits for aflatoxin in complementary dog food</th>
</tr>
</thead>
<tbody>
<tr>
<td>S/N</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>i</td>
</tr>
<tr>
<td>ii</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

7 Hygiene

7.1 Complementary dog food shall be produced and handled in accordance with CAC/RCP 54.

7.2 Complementary dog food shall comply with the microbiological limits given in Table 3 when tested in accordance with the test methods specified therein.

<table>
<thead>
<tr>
<th>Table 3 — Microbiological limits for complementary dog food</th>
</tr>
</thead>
<tbody>
<tr>
<td>S/N</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>i</td>
</tr>
<tr>
<td>ii</td>
</tr>
</tbody>
</table>
8 Packaging

Complementary dog food shall be packaged in suitable containers that are of sufficient strength, and sufficiently sealed so as to withstand reasonable handling without tearing, bursting or falling open. The containers shall be clean and not previously used.

9 Labelling

In addition to the requirements given in EAS 38, each package shall be legibly and indelibly labelled with the following information:

a) name of the food as “Complementary dog food”;

b) name and physical address of the manufacturer;

c) declared proportions of crude protein, crude fibre, crude fat;

d) additives, if included;

e) net weight in metric units;

f) directions for use;

g) batch number/lot identification;

h) manufacturing date;

i) storage instructions; and

j) expiry date/“Best before” date.

10 Sampling

Sampling shall be done in accordance with ISO 6497.
Annex A
(informative)

Complementary dog food ingredients

A.1 General

The following ingredients may be used in the manufacture of complementary dog food:

A.2 Grain products

- Maize flour
- Wheat flour
- Oat flour
- Pollard
- Barley
- Wheat bran
- Wheat germ
- Rice
- Sorghum
- Maize germ meal
- Maize bran

A.3 Animal products

- Bonemeal
- Blood meal
- Meat/bonemeal
- Meat meal
- Offal meals (treated)
- Dried skimmed milk
- Dry whey
- Cheese meal
— Poultry by-products (excluding manure)
— Hydrolysed feather meal
— Fishmeal
— Whole milk

A.4 Plant products (other than cereal based)

— Soybean meal
— Alfalfa meal (lucerne meal) - dried grass meal
— Potatoes (solanum tuberosum)

A.5 Industrial by-products

— Sunflower cakes
— Brewer’s yeast and dried grains
— Sugarcane molasses

A.6 Other ingredients

— Common salt
— Dicalcium phosphate (flourine content not to exceed 0.2 %
— Calcium lactate
— Limestone
— Vitamin and mineral premixes.
Annex B
(informative)

Requirements for trace elements and vitamins in complementary dog food

Table B.1 — Trace elements in complementary dog food

<table>
<thead>
<tr>
<th>S/N</th>
<th>Mineral (dry basis)</th>
<th>Limit mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Iron</td>
<td>32.0 – 80.0</td>
</tr>
<tr>
<td>ii.</td>
<td>Copper</td>
<td>3.0 – 7.0</td>
</tr>
<tr>
<td>iii.</td>
<td>Manganese</td>
<td>5.0 – 7.0</td>
</tr>
<tr>
<td>iv.</td>
<td>Zinc</td>
<td>35.0 – 80</td>
</tr>
<tr>
<td>v.</td>
<td>Iodine</td>
<td>0.15 – 1.55</td>
</tr>
</tbody>
</table>

Table B.2 — Vitamins in complementary dog food

<table>
<thead>
<tr>
<th>S/N</th>
<th>Vitamin (dry basis)</th>
<th>Minimum limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Vitamin A, IU/kg</td>
<td>5 000.0</td>
</tr>
<tr>
<td>ii.</td>
<td>Vitamin E, IU/kg</td>
<td>50.0</td>
</tr>
<tr>
<td>iii.</td>
<td>Riboflavin (B2), mg/kg</td>
<td>1.0</td>
</tr>
<tr>
<td>iv.</td>
<td>Vitamin D, IU/kg</td>
<td>500.0</td>
</tr>
<tr>
<td>v.</td>
<td>Thiamin (B1), mg/kg</td>
<td>1.0</td>
</tr>
<tr>
<td>vi.</td>
<td>Pantothenic acid, mg/kg</td>
<td>10.0</td>
</tr>
<tr>
<td>vii.</td>
<td>Niacin, mg/kg</td>
<td>11.4</td>
</tr>
<tr>
<td>viii.</td>
<td>Pyridoxine (B6), mg/kg</td>
<td>1.0</td>
</tr>
<tr>
<td>ix.</td>
<td>Folic acid, mg/kg</td>
<td>0.18</td>
</tr>
<tr>
<td>x.</td>
<td>Biotin, mg/kg</td>
<td>0.10</td>
</tr>
<tr>
<td>xi.</td>
<td>Vitamin (B12), mg/kg</td>
<td>0.022</td>
</tr>
<tr>
<td>xii.</td>
<td>Choline, mg/kg</td>
<td>1 200.0</td>
</tr>
</tbody>
</table>
Bibliography

[1] ISO ####-#, General title — Part #: Title of part

[2] ISO ####-##:20##, General title — Part ##: Title of part