Poultry feed premix — Specification

EAST AFRICAN COMMUNITY
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East African Community
P.O. Box 1096,
Arusha
Tanzania
Tel: + 255 27 2162100
Fax: + 255 27 2162190
E-mail: eac@eachq.org
Web: www.eac-quality.net

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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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Poultry feed premix — Specification

1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for poultry feed premix as a source of vitamins and trace elements for poultry.

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 referenced document (including any amendments) applies.

CAC/RCP 54, Code of practice on good animal feeding

EAS 38, Labelling of pre-packaged foods — General requirements

ISO 6497, Animal feeding stuffs — Sampling

3 Terms and definitions

For the purposes of this standard, the following 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 premix
mixture of either vitamins, trace minerals, diluents or a combination. It may contain other feed additives such as amino acids.

3.2 chick premix
premix designed for feed intended for young chicken from day-old up to grower stage

Note 1 to entry: Chick premix can also be used for feed intended for ducklings (young ducks aged six to eight weeks).

3.3 grower premix
premix designed for feed intended for young growing chickens before reaching laying stage
3.4 layer premix  
premix designed for feed intended for laying hens

3.5 breeder premix  
premix designed for feed intended for breeding chickens producing hatching eggs

3.6 broiler premix  
premix designed for feed intended for chickens specially raised for meat

3.7 compounded feed  
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

3.8 feed (feedingstuff)  
any single or multiple materials, whether processed, semi-processed or raw, which is intended to be fed directly to food producing animals

3.9 feed 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 Raw materials

Poultry feed premix shall contain concentrated forms of vitamins, minerals and a suitable carrier.

4 Requirements

4.1 General requirements

4.1.1 Raw materials

4.1.1.1 Poultry feed premix shall contain concentrated forms of vitamins, minerals and a suitable carrier.

4.1.1.2 Poultry feed premix shall be:

a) in the form of a fine powder, granular or liquid;

b) free from harmful constituents, metallic objects and adulterants; and

c) free from fermented, musty, rancid or uncharacteristic odour.
4.2 Specific requirements

4.2.1 Poultry feed premix shall contain the nutrients given in Table 1 when tested in accordance with the test methods specified therein.
### Table 1 — Mineral nutrients levels for poultry feed premixes

<table>
<thead>
<tr>
<th>S/N</th>
<th>Class of stock</th>
<th>Minimum requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Copper (mg/kg)</td>
<td>Manganese (mg/kg)</td>
</tr>
<tr>
<td>i.</td>
<td>Chicks</td>
<td>5 000</td>
<td>60 000</td>
</tr>
<tr>
<td>ii.</td>
<td>Ducklings</td>
<td>5 000</td>
<td>60 000</td>
</tr>
<tr>
<td>iii.</td>
<td>Poults</td>
<td>5 000</td>
<td>60 000</td>
</tr>
<tr>
<td>iv.</td>
<td>Growers</td>
<td>8 000</td>
<td>60 000</td>
</tr>
<tr>
<td>v.</td>
<td>Layers</td>
<td>8 000</td>
<td>60 000</td>
</tr>
<tr>
<td>vi.</td>
<td>Breeders</td>
<td>7 500</td>
<td>60 000</td>
</tr>
<tr>
<td>vii.</td>
<td>Broilers: Starter</td>
<td>5 000</td>
<td>80 000</td>
</tr>
<tr>
<td></td>
<td>Finisher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>viii.</td>
<td>Ducks</td>
<td>6 000</td>
<td>60 000</td>
</tr>
<tr>
<td>ix.</td>
<td>Turkey</td>
<td>6 000</td>
<td>60 000</td>
</tr>
</tbody>
</table>


**NOTE** The above levels are applicable for a metric tonne of feed. Premixes labelled at different inclusion rate shall contain a pro rata level of nutrient.

### 4.2.2 Poultry feed premix may contain vitamins as given in Table 2 when tested in accordance with the test methods specified therein.

### Table 2 — Recommended minimum vitamin levels in poultry feed premix

| S/N | Class of stock | Vit. A (IU) | Vit. D3 (IU) | B2 (mg) | B1(B) (mg) | E (IU) | K (mg) | B6 (mg) | Panthenic acid (mg) | Nicotinic acid (mg) | Folic acid (mg) | Choline (mg) | Biotin (mg) | Test method |
|-----|----------------|-------------|--------------|---------|------------|--------|--------|---------|---------------------|--------------------|-----------------|--------------|-------------|-------------|-------------|
| i.  | Chicks         | 10 000      | 2 500        | 5       | 10         | 8      | 2      | 3       | 6 000               | 22                 | 1              | 100          | 50          | AOACa       |
| ii. | Ducklings      | 10 000      | 2 500        | 5       | 10         | 8      | 2      | 3       | 6 000               | 22                 | 1              | 100          | 50          | AOACa       |
| iii.| Poults         | 10 000      | 2 500        | 5       | 10         | 8      | 2      | 3       | 6 000               | 22                 | 1              | 100          | 50          | AOACa       |
| iv. | Growers        | 10 000      | 2 500        | 5       | 10         | 8      | 2      | 3       | 6 000               | 22                 | 1              | 100          | 50          | AOACa       |
| v.  | Layers         | 8 000       | 2 000        | 3       | 12         | 20     | 2      | 2       | 5 000               | 20                 | 1              | 100          | 50          | AOACa       |
| vi. | Breeders       | 12 000      | 3 000        | 5       | 20         | 30     | 2      | 4       | 13 000              | 30                 | 1              | 1500         | 100         | AOACa       |
| vii.| Broilers:      | 10 000      | 2 500        | 5       | 10         | 8      | 2      | 3       | 6 000               | 22                 | 1              | 100          | 50          | AOACa       |
|     | Starter        |             |              |         |            |        |        |         |                    |                    |                |              |             |             |
|     | Finisher       |             |              |         |            |        |        |         |                    |                    |                |              |             |             |
| viii.| Ducks         | [2 500]     | [400]        | [5]     | [10]       | [50]   | [250]  | [11 000]| [55]               | [1]               | [250]          | [150]        |             |             |             |
5 Feed additive

Only the food additives permitted in US 45 may be used.

6 Hygiene

6.1 Poultry feed premix shall be produced and handled in accordance with CAC/RCP 54.

6.2 Poultry feed premix shall comply with microbiological limits as shown in Table 3.

Table 3 — Microbiological requirements for compounded cat food

<table>
<thead>
<tr>
<th>S/N</th>
<th>Microorganism</th>
<th>Status</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td><em>Salmonella</em> spp</td>
<td>Absent</td>
<td>ISO 6579-1</td>
</tr>
<tr>
<td>ii.</td>
<td><em>Escherichia coli</em></td>
<td>Absent</td>
<td>ISO 16654</td>
</tr>
</tbody>
</table>

7 Packaging

7.1 Poultry feed premix shall be packaged in food grade material to safeguard the safety, hygienic, nutritional and organoleptic qualities of the product.

7.2 Poultry feed premix for sale shall be packed in containers which are of sufficient strength and sufficiently sealed so as to withstand reasonable handling without tearing, bursting or falling open during normal handling and transportation.

7.3 Each container for poultry feed premix shall be new, clean and free from visible indications of contamination, infection and insect infestation.

8 Weights and measures

Poultry feed premix shall be packaged in accordance with the Weights and Measures requirements of the destination country.

9 Labelling

In addition to the requirements in EAS 38, the following specific labelling requirements shall apply and shall be legibly and indelibly marked:
a) name of product as “Poultry feed premix” or “X premix” where X is the stage;
b) category of poultry for which it is intended;
c) net weight in metric units;
d) batch number;
e) name and physical address of the manufacturer/processors;
f) date of manufacture;
g) expiry/best before date;
h) nutrient declaration;
i) instructions for use and storage; and
j) country of origin;

10 Sampling

Sampling shall be done in accordance with ISO 6497.