DRAFT EAST AFRICAN STANDARD

Dairy cattle feed premix — 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.

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Dairy cattle feed premix — Specification

1 Scope

This Draft East African Standard specifies requirements and methods of sampling and test for the dairy cattle feed premix as a sole source of vitamins and trace elements for cattle.

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
concentrated mixture of vitamins, trace minerals and diluents. It may contain other feed additives such as amino acids or medicaments.

3.2 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

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

3.4 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 Ingredients for dairy cattle feed premix

4.1.1 Dairy cattle feed premix shall be:

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

b) free from harmful constituents, metallic objects, adulterants, moulds, pathogenic microorganisms or insect infestation; and

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

4.1.2 Dairy cattle feed premix shall contain the nutrients levels given in Table 1.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Nutrient</th>
<th>Minimum requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Manganese</td>
<td>20 000 mg/kg</td>
<td>AOACa</td>
</tr>
<tr>
<td>ii.</td>
<td>Zinc</td>
<td>40 000 mg/kg</td>
<td>ISO 6869</td>
</tr>
<tr>
<td>iii.</td>
<td>Cobalt</td>
<td>100 mg/kg</td>
<td></td>
</tr>
<tr>
<td>iv.</td>
<td>Copper</td>
<td>10 000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>v.</td>
<td>Iodine</td>
<td>800 mg/kg</td>
<td>AOAC 993.20</td>
</tr>
<tr>
<td>vi.</td>
<td>[Selenium]</td>
<td>10 mg/kg</td>
<td>AOAC 2011.19</td>
</tr>
<tr>
<td>vii.</td>
<td>Vitamin D, IU/kg</td>
<td>1 000 000 IU/kg</td>
<td>AOAC 982.29</td>
</tr>
<tr>
<td>viii.</td>
<td>Vitamin A, IU/kg</td>
<td>6 000 000 IU/kg</td>
<td>ISO 14565</td>
</tr>
<tr>
<td>ix.</td>
<td>Vitamin E, IU/kg</td>
<td>18 000 IU/kg</td>
<td>ISO 6867</td>
</tr>
</tbody>
</table>

a Association of Official Analytical Chemists Methods.

NOTE 1 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.

NOTE 2 Vitamin B₁₂ may substitute cobalt at a minimum rate of 3 000 µg/kg to represent 100 mg/kg of cobalt with no upper limit.

5 Feed additives

Only the food additives permitted may be used in accordance with Codex Stan 192.

6 Hygiene

6.1 Dairy cattle feed premix shall be produced and handled in accordance with CAC/RCP 54.
6.2 Dairy cattle feed premix shall comply with microbiological limits as shown in Table 2.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Microorganism</th>
<th>Requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td><em>Salmonella spp</em></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 Dairy cattle feed premix shall be packaged in food grade material to safeguard the safety, hygienic, nutritional and organoleptic qualities of the product.

7.2 Dairy cattle 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 dairy cattle feed premix shall be new, clean and free from visible indications of contamination, infection and insect infestation.

8 Weights and measures

Dairy cattle 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 "Dairy cattle feed premix" or "X premix" where X is the stage;

b) category of cattle for which it is intended;

c) net weight in metric units;

d) batch number;

f) name and physical address of the manufacturer/processors;

g) date of manufacture;

h) expiry/best before date;

i) nutrient declaration;

j) instructions for use and storage;

k) country of origin; and

l) the statement “Cattle food”.

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10 Sampling

Dairy cattle feed premix shall be sampled in accordance with ISO 6497.