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DRAFT EAST AFRICAN STANDARD

Poultry 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*.

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.

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.

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Table 1 — Mineral nutrients levels for poultry feed premixes

S/N	Class of stock	Minimum requirement mg/kg of feed premix					Test method
		Copper	Manganese	Iodine	Zinc	Selenium	
i.	Chicks	5 000	60 000	350	50 000	150	AOACa
ii.	Ducklings	5 000	60 000	350	50 000	150	ISO 6869
iii.	Poults	5 000	60 000	350	50 000	150	AOAC 2011.19 Selenium
iv.	Growers	8 000	60 000	350	50 000	150	
v.	Layers	8 000	60 000	500	40 000	100	AOAC 993.20 Iodine
vi.	Breeders	7 500	60 000	500	40 000	200	
vii.	Broilers: } Starter Finisher	5 000	80 000	350	50 000	150	
viii.	Ducks	5 000	60 000	350	50 000	100	
ix.	Turkey	6 000	60 000	400	40 000	200	

a Association of Official Analytical Chemists Methods.

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 2 mg	E IU	K mg	B6 mg	Panoth enic acid mg	Nicoti nic acid, mg	Folic acid mg	Cholin e ^b mg	Bioti n mg	Test meth od
i.	Chicks	10 000 000	2 500 000	5 000	10	8 000	2 000	3 000	6 000	22 000	1 000	230 000	50	AOA Ca
ii.	Duckling s	10 000 000	2 500 000	5 000	10	8 000	2 000	3 000	6 000	22 000	1 000	230 000	50	
iii.	Poults	10 000 000	2 500 000	5 000	10	8 000	2 000	3 000	6 000	22 000	1 000	230 000	50	
iv.	Growers	10 000 000	2 500 000	5 000	10	8 000	2 000	3 000	6 000	22 000	1 000	230 000	50	
v.	Layers	8 000 000	2 000 000	3 000	12	20 000	2 000	2 000	5 000	20 000	1 000	300 000	50	
vi.	Breeders	12 000 000	3 000 000	5 000	20	30 000	2 000	4 000	13 000	30 0000	1 500	300 000	100	
vii.	Broilers: Starter Finisher	10 000 000	2 500 000	5 000	10	8 000	2 000	3 000	6 000	22 000	1 000	230 000	50	
viii.	Ducks	[2 500 000]	[400 000]	[400 00]	[5]	[10 000]	[50 0]	[250 0]	[11 000]	[55 000]	[1 000]	[250 000]	[150]	

ix.	Turkey	[5 000 000]	[1 100 000]	[250 0]	[3]	[10 000]	[75 0]		[9 000]	[40 000]	[700]	[950 000]	[150]	
<p>^a Association of Official Analytical Chemists Methods.</p> <p>^b Choline chloride can be provided separately because of its reaction with other micro nutrients</p> <p>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.</p> <p>NOTE 2 Vitamin B₁₂ may substitute cobalt at a minimum rate of 3000 µg/kg to represent 100 mg/kg of cobalt with no upper limit.</p>														

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

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

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.

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