

KENYA STANDARD

Poultry feed premixes - Specification

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TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

1. Ministry of Livestock Development — Department of Livestock Production
2. University of Nairobi — Department of Animal Production
3. Kenya Agricultural Research Institute (KARI)
4. Unga Farm Care EA Ltd.
5. Tamfeeds K Ltd
6. Modern Ways Ltd.
7. Consumer Information Network
8. Department of Veterinary Services
9. AKEFEMA-Association of Kenya Feed Manufacturers
10. Government chemist department.
11. Pioneer Feeds Ltd
12. Nutrimix (K) Ltd
13. Pembe Flour Mills
14. Eaglevet (K) Ltd
15. Joeliz Bone meal Ltd.
16. Proctor and Allan (EA) Ltd
17. Kenya Bureau of Standards — Secretariat

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FOREWORD

This Kenya Standard was prepared by the Animal Feeds Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

Animal mineral and vitamin requirements vary from herd to herd and group to group depending on physiological statuses and seasonality. Appropriate levels of vitamins and minerals impact energy and fat metabolism, immunity, health and lameness, feed intake, and animal productivity. Many factors influence vitamin and mineral availability and utilization.

The animal feed manufacturing industry in Kenya has continued to utilize animal premixes that are either imported whole (ready for use) or locally re-constituted in our factories without clear guidelines on specifications on nutrient requirements for the premixes. In view of the above, it has become necessary to develop standards for animal feed premixes for use in compounding animal feeds in Kenya. It is expected that such an attempt could facilitate increased trade volumes as well as create a vibrant and competitive animal feed manufacturing industry in the region.

During the preparation of this Kenya Standard, reference was made to the following publications:
KS-61-Poultry feed supplements-Specification

The assistance received from these sources is acknowledged with thanks.

KENYA STANDARD
POULTRY FEED PREMIXES- SPECIFICATION

1. SCOPE

This Kenya Standard specifies requirements for compounded poultry feed premixes used as a sole source of Vitamins and trace elements for poultry.

2. DEFINITIONS

For the purpose of this Kenya Standard, the following definitions shall apply:

- 2.1 **Premix** is a concentrated mixture of vitamins, trace minerals and diluents. It may contain other feed additives such as amino acids or medicaments.
- 2.2 **Compound feeds** -: is a mixture of feedstuffs blended from various raw materials and additives as a concentrate that provides part of the ration (energy, protein, trace elements) for poultry
- 2.3 **Chicks** -:young laying or breeding chicken up to 6 – 8 weeks of age
- 2.4 **Growers** -:laying or breeding chicken from 6 weeks of age up to the point of laying
- 2.5 **Layers** :laying hens producing eggs
- 2.6 **Breeders** -:breeding chicken producing fertile eggs
- 2.7 **Broilers** -:chicken specially bred for meat
- Broiler starter 0 – 3 weeks.

— Broiler finisher after 3 weeks.

2.8 Ducklings -:young ducks up to 6 – 8 weeks of age

2.9 Poults -:young turkeys up to 6 weeks of age

3. REQUIREMENTS

3.1 Description —Premixes shall be a fine powder, granular or liquid concentrate.

3.2 The Premix shall be free from harmful constituents, metallic objects, adulterants, moulds, pathogenic micro-organisms or pest infestation and free from fermented, musty, rancid or uncharacteristic odour.

3.3 The poultry feed premix shall contain the following nutrients.

TABLE OF NUTRIENTS LEVELS FOR POULTRY FEED PREMIXES

SL No	Class of stock	Vit.A I.u	Vit. D3 I.u	B2 mg	B12 mg	E i.U	K mg	B6 mg	Panotenic acid mg	Nicotinic acid mg	Folic acid mg	Choline mg	Copper mg	Magnese mg	Iodine mg	Zinc mg	Selenium mg	Biotin mg
i)	Chicks	6000000	1500000	4000	15	10000	2000	3000	10000	27000	500	250000	5000	75000	1000	50000	100	100
ii)	Ducklings	8000000	2000000	3000	10	25000	1000	2500	15000	30000	1000	250000	5000	75000	2000	65000	100	100
iii)	Poults	10000000	2000000	5000	10	10000	2000	4500	15000	75000	2000	1600000	5000	75000	400	70000	200	250
iv)	Growers	4000000	1000000	3000	4	5000	1000	2800	10000	25000	250	250000	5000	50000	1000	50000	100	100
v)	Layers	5000000	1500000	3000	10	20000	2000	3000	5000	10000	500	250000	5000	50000	1000	50000	100	25
vi)	Breeders	8000000	2000000	12000	8	75000	2000	2500	10000	30000	1000	250000	5000	75000	2000	50000	200	100
vii)	Broilers: Starter Finisher	8000000	2000000	4000	5	20000	2000	5000	10000	30000	1000	250000	5000	75000	1000	50000	100	150
viii)	Ducks	2500000	400000	40000	5	10000	500	2500	11000	55000	1000	250000	5000	75000	1000	50000	100	150
ix)	Turkey	5000000	1100000	2500	3	10000	750		9000	40000	700	950000	6000	60000	400	40000	200	150

NB: i) The above levels must be attained by inclusion at 1kg of premix per metric tonne of feed. Premixes labelled at different inclusion rate must contain a pro rata level of nutrient.

4. PACKAGING AND LABELLING

4.1 Packaging

4.1.1 Poultry feed premixes 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.

4.1.2 Each container for feed premixes shall be clean and free from visible indications of contamination, infection and insect infestation.

4.2 Labelling — the packages shall be securely closed and marked with the following information:

- (i) Name of product;
- (ii) Category of animals for which it is intended;
- (iii) Net Weight of the product;
- (iv) Batch number;
- (v) Name and physical address of the manufacturer;
- (vi) Date of manufacture and expiry
- (vii) Nutrient declaration:-
- (Viii). Instructions for use and storage

5. SAMPLING

For the purpose of determining compliance with this standard, samples of poultry feed premixes shall be collected from the market or elsewhere and shall be required to comply with all the requirements of this Kenya Standard.