KS 786: 2013 ICS 65.120

Blood meal for compounding animal feeds- Specification

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The following organizations were represented on the Technical Committee:

Ministry of Livestock Development — Department of Livestock Production

Department of Veterinary Services

Kenya Meat Commission
Joeliz Bone meal Ltd
Unga Farm Care (EA) Ltd.
Government chemist
Consumer Information Network
Kenya Agricultural Research Institute (KARI)
Proctor and Allan EA Ltd.
AKEFEMA-Association of Kenya Feed Manufacturers
Pembe flour Mills ltd
Pioneer Feeds Ltd
University Of Nairobi
Kenya Bureau of Standards — Secretariat

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Blood meal for compounding animal feeds-Specification

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FOREWORD

This Kenya Standard for blood meal was prepared by the Animal Feeds Technical Committee with the guidance of the Project Standards Committee.

Blood meal is an important protein supplement as it contains as much as 85 per cent protein, including large amounts of lysine, tryptophane and methionine. It is used as protein concentrate in animal feeds as it contains practically no fibre and allows the animal a higher protein intake without increasing the volume of feed. To ensure its quality, blood from slaughtered animal should be processed within the shortest time to avoid contamination.

It is anticipated that this standard will assist manufacutrers of blood meal and animal feeds to maintain good quality and exercise proper quality control during production.

During the preparation of this standard, references were made to the following publications.

The Fertilizers and Animal Feedstuffs Act, Cap 345.

MS: 3.67: 1976 Specificaiton for blood meal as an animal feed supplement.

IS: 7060: 1973 Specificaion for blood meal as livestock feed.

FAO/UK Publication – 'Processing and utilization of animal by-products' prepared by I. Mann.

Acknowledgement is made for the assistance received from these sources.

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KENYA STANDARD

BLOOD MEAL FOR COMPOUNDING ANIMAL FEEDS- SPECIFICATION

1. SCOPE

This Kenya Standard prescribes the requirements for blood meal used as protein supplement in compounding animal feed for non ruminants.

2. **DEFINITIONS**

Blood meal shall be the product obtained by steaming fresh, clean blood at 100 °C for 15 min to 25 min to destroy pathogenic micro-organisms and then dried.

3. GENERAL REQUIREMENTS

- **3.1** Blood meal shall be free from rancidity, any objectionable odour, toxic ingredients, adulterants, foreign matter, insects and pathogenic micro-organisms.
- 3.2 Blood meal shall conform to the requirements prescribed in Table 1.

TABLE 1. REQUIREMENTS FOR BLOOD MEAL USED AS A PROTEIN SUPPLEMENT IN ANIMAL FEEDS

PARAMETER	REQUIREMENT (PER CENT BY MASS)	METHOD OF TEST
Moisture (max.)	10	KS 01-63 PARTS 1 AND 2*
Crude protein (min.)	80	,,
Lysine (min.)	6.5	,,
Methionine (min.)	0.8	
Crude fat (max.)	2	,,
Total ash (max.)	5	,,
Acid insoluble ash (max.)	1	,,

^{*} Methods of test for animal feedstuffs.

4. Microbiological requirements

4.1 Blood meal shall be free from *salmonellae*, spores of *Bacillus anthracis* and Clostridia when tested according to the method prescribed in KS 01-63: Part 3*

3

^{*} Methods of test for animal feedstuffs.

^{*} Bacteriological tests.

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5. PACKAGING AND LABELLING

5.1 Packaging

5.1.1 Compounded Blood meal 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.

- **5.1.2** Each container for Compounded Blood meal shall be clean and free from visible indications of contamination, infection and insect infestation.
- **5.2 Labelling** the packages shall be securely closed and marked with the following information:
 - (i) Name of product; 'Blood Meal';
 - (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) Protein content as per cent in the product.
 - (Viii). Instructions for use and storage