



## **DRAFT EAST AFRICAN STANDARD**

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### **Wheat bran and wheat pollard for animal feeds — 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.

This second edition cancels and replaces the first edition (EAS 353:2004), which has been technically revised.



# Wheat bran and wheat pollard for animal feeds — Specification

## 1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for wheat bran and wheat pollard for use as animal feedstuff and or ingredient for compounding animal feeds.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 5510, *Animal feeding stuffs — Determination of available lysine*

ISO 5983-1, *Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content — Part 1: Kjeldahl method*

ISO 5984, *Animal feeding stuffs — Determination of crude ash*

ISO 5985, *Animal feeding stuffs — Determination of ash insoluble in hydrochloric acid*

ISO 6490-1, *Animal feeding stuffs — Determination of calcium content — Part 1: Titrimetric method*

ISO 6491, *Animal feeding stuffs — Determination of phosphorus content — Spectrometric method*

ISO 6492, *Animal feeding stuffs — Determination of fat content*

ISO 6495, *Animal feeding stuffs — Determination of water-soluble chlorides content*

ISO 6496, *Animal feeding stuffs — Determination of moisture and other volatile matter content*

ISO 6497, *Animal feeding stuffs — Sampling*

ISO 6865, *Animal feeding stuffs — Determination of crude fibre content — Method with intermediate filtration*

ISO 9831, *Animal feeding stuffs, animal products, and faeces or urine — Determination of gross calorific value — Bomb calorimeter method*

ISO 13903, *Animal feeding stuffs — Determination of amino acids content*

ISO 14718, *Animal feeding stuffs — Determination of aflatoxin B1 content of mixed feeding stuffs — Method using high-performance liquid chromatography*

ISO 17375, *Animal feeding stuffs — Determination of aflatoxin B1*

ISO 16050, *Foodstuffs — Determination of aflatoxin B1, and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products — High-performance liquid chromatographic method*

ISO 27085, *Animal feeding stuff — Determination of calcium, sodium, phosphorous, magnesium, potassium, iron, zinc, copper, manganese, cobalt, molybdenum, arsenic, lead and cadmium by ICP-AES*

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

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions 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

##### **wheat bran**

the coarse outer layers removed during the milling process for white wheat flour

#### 3.2

##### **wheat pollard**

the fine outer layers removed along with germ during the milling process for white wheat flour

### 4 Requirements

#### 4.1 General requirements

Wheat bran and wheat pollard shall be:

- a) flaky in appearance;
- b) free from unpleasant or musty, stale, or any other objectionable odour;
- c) free from metallic objects, adulterants and insect infestation; and
- d) free from acidity and any other harmful constituents.

#### 4.2 Specific requirements

Wheat bran and wheat pollard shall conform to the requirements specified in Table 1 when tested in accordance with the test methods specified therein.

**Table 1 — Requirements for wheat bran and wheat pollard**

S/No	Characteristic	Requirement		Test method
		Bran	Pollard	
1	Moisture, per cent by mass, max.	12.0	12	ISO 6496
2	Crude protein <sup>a</sup> , per cent by mass, min.	13.5 – 15.0	12	ISO 5983-1
3	Crude fat, per cent by mass, min.	2.5	2.5	ISO 6492
4	Crude fibre, per cent by mass, max.	12.0	8	ISO 6865
5	Total ash per cent by mass, max.	1.0	5	ISO 5984
<sup>a</sup> The values are on dry matter basis				

## **5 Aflatoxin**

Wheat bran and wheat pollard shall not have aflatoxins above 20 pbb, when tested in accordance with ISO 16050 and ISO 14718.

## **6 Packaging**

Wheat bran and wheat pollard shall be packed in bags or any suitable container designed to preserve and protect the product and shall be properly sealed.

## **7 Labelling**

In addition to the requirements in US EAS 38, each package shall be legibly and indelibly labelled with the following:

- a) expiry date;
- b) name of the feed for example "Maize gluten";
- c) name and physical address of the manufacturer;
- d) net weight in metric units;
- e) batch number /lot identification;
- f) manufacturing date; and
- g) storage instructions.

## **8 Sampling**

Sampling shall be done in accordance with ISO 6497.



## Bibliography

EAS 353:2004, *Wheat bran as animal feeds specification*

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