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## DRAFT EAST AFRICAN STANDARD

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Body oils — 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. XXXXXX.

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 071, *Cosmetics and related products*.

## Introduction

Body oils are based on refined vegetable oils, mineral oil, or a mixture of the two. They can be used for skin maintenance instead of the emulsion-based creams.

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## Body oils — Specification

### 1 Scope

This Draft East African Standard specifies the requirements, sampling and test methods for body oils based on refined vegetable oils or vegetable oils blends, mineral oils or mixture of the vegetable oils and mineral oils meant for application on the skin.

It does not cover skin creams, lotions, hair oils and pure essential oils.

Body oils for which therapeutic claims are made are not covered by this standard.

### 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.

EAS 346, *Labelling of cosmetics — General requirements*

EAS 846, *Glossary of terms relating to the cosmetic industry*

EAS 847- 2, *Cosmetics — Analytical methods — Part 2: Determination of Moisture Content*

EAS 847- 13, *Cosmetics — Analytical methods — Part 13: Determination of rancidity*

EAS 847-16, *Cosmetics — Analytical methods test — Part 16: Determination of Heavy metal Content*

EAS 847-17, *Cosmetics — Analytical methods — Part 17: Physio-chemical tests*

EAS 847-18, *Cosmetics — Analytical methods — Part 18: Determination of thermal stability*

EAS 377 (all parts), *Cosmetics and cosmetic products*

ISO 3960, *Animal and vegetable fats and oils -- Determination of peroxide value -- Iodometric (visual) endpoint determination*

ISO 18416, *Cosmetics — Microbiology — Detection of candida albicans*

ISO 21148, *Cosmetics — Microbiology — General instructions for microbiological examination*

ISO 21149, *Cosmetics -- Microbiology -- Enumeration and detection of aerobic mesophilic bacteria*

ISO 22717, *Cosmetics — Microbiology — Detection of Pseudomonas aeruginosa*

ISO 22718, *Cosmetics — Microbiology — Detection of Staphylococcus aureus*

ISO 22716, *Cosmetics — Good Manufacturing Practices (GMP) — Guidelines on Good Manufacturing Practices*

ISO 24153, *Random sampling and randomisation procedures*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EAS 846 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>

### 4 Types

There shall be three types of body oils, namely:

- a) Type 1 — based on vegetable oils or its blends;
- b) Type 2 — based on mineral oils; and
- c) Type 3 — based on a mixture of vegetable oil(s) and mineral oils.

### 5 Requirements

#### 5.1 Ingredients

All ingredients used including dyes, pigment and colours shall conform to EAS 377(all parts).

#### 5.2 General requirements

##### 5.2.1 Body oils shall

- a) be free from any sediment, suspended matter and separated water.
- b) not have any objectionable odour.

**5.2.2** The body oils shall be dermatologically safe and shall not cause irritation or harm to the skin when used as intended by the manufacturer.

**5.2.3** The product shall be produced, prepared and handled in accordance with ISO 22716.

#### 5.3 Specific requirements

Body oils shall conform to the requirements given in Table 1 when tested in accordance with the test methods specified therein.

**Table 1 — Specific requirements for body oils**

Characteristic	Requirement	Test method
Moisture content, % by mass, max.	0.5	EAS 847- 2
Acid value, max.	1.0	EAS 847- 4
Peroxide value, mg/1 000 g, max.	7.5	ISO 3960
Rancidity	Shall be free from rancidity	EAS 847-13
Thermal stability	To pass the test	EAS 847-18

## 6 Heavy metals

6.1 Body oils shall comply with the heavy metal requirements given in Table 2 when tested in accordance with the test methods specified therein.

**Table 2 — Heavy metal requirements for body oils**

Characteristic	Requirement	Test method
Lead, mg/kg, max.	10	EAS 847-16
Arsenic, mg/kg, max.	2	
Mercury, mg/kg, max.	2	
Note- The total amount of heavy metals as lead, mercury and arsenic, in combination in the finished product shall not exceed 10 mg/kg		

6.2 The total amount of heavy metals as lead, mercury and arsenic, in combination, in the finished product shall not exceed 20 mg/kg.

## 7 Microbiological requirements

Body oils shall comply with the microbiological requirements given in Table 3 when tested in accordance with the test methods specified therein.

**Table 3 — Microbiological requirements for body oils**

Characteristic	Requirement	Test method
Total viable count for aerobic mesophyllic micro-organisms per g, max.	1000	ISO 21149
<i>Pseudomonas aeruginosa</i>	Not detectable in 0.5 g of cosmetic product	ISO 22717
<i>Staphylococcus aureus</i>		ISO 22718
<i>Candida albicans</i>		ISO 18416

## 8 Packaging

The product shall be packaged in suitable well-sealed containers that shall protect the contents and shall not cause any contamination or react with the product

## 9 Labelling

In addition to the labelling requirements in EAS 346, the package shall be legibly and indelibly marked with the following information:

- manufacturer's name and physical address;
- product name as "Body oils";
- type of body oils;



- d) country of origin;
- e) batch number;
- f) net content of the material when packed;
- g) month and year of manufacture and expiry;
- h) storage instructions; and
- i) warning/ precautions, where applicable.

## **10 Sampling**

Random samples of the product for test shall be drawn from the market, factory or elsewhere in accordance with ISO 24153.

## Bibliography

- [1] 76/768/EEC, *The European Economic Community Cosmetics Directive*
- [2] FDUS 1921: 2018, *Body oils — Specification*
- [3] ISO 9001:2015, *Quality management systems — Requirements*
- [4] KS 1766:2006, *Specification for body oils*
- [5] TZS 1133: 2017, *Skin care oils — Specification*
- [6] US EAS 339:2013, *Hair creams, lotions and gels — Specification*

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