



## **DRAFT EAST AFRICAN STANDARD**

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**Hair creams, lotions and gels — 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 071, *Cosmetics and related products*.

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 third edition cancels and replaces the second edition (EAS 339:2013), which has been technically revised.

## Introduction

Hair creams, lotions and gels are products used to enhance glossy appearance on the hair and condition the hair. It may contain additives which stimulate the scalp, moisturize, repair, strengthen, boost growth the hair or have anti-dandruff properties since hair creams, lotion and gels have different functionalities based on the added additives



## Hair creams, lotions and gels — Specification

### 1 Scope

This Draft East African Standard specifies the requirements, sampling and methods of test for hair creams, lotions and gels.

It also applies to hair conditioners and setting lotions.

This Draft East African standard does not cover hair sprays, hair sheens or hair oils.

This Draft East African standard does not cover hair creams, lotions and gels for which therapeutic claims are made.

### 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 377 (all parts), Cosmetics and cosmetic products

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

EAS 847-16, Cosmetics —Analytical methods —Part 16: Determination of lead, mercury and arsenic content

EAS 847-17, Cosmetics —Analytical methods —Part 17: Determination of pH

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

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

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 24153, Random sampling and randomization procedures

### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:



## 4 Requirements

### 4.1 Ingredients

All ingredients used including dyes, pigments and colours shall comply with all the parts of EAS 377.

### 4.2 General requirements

**4.2.1** The hair cream, lotion and gel shall be in the form of an emulsion and of a uniform colour showing no signs of separation nor visible impurities.

**4.2.3** The product shall not be harmful to the scalp or hair when used as intended by the manufacturer.

### 4.3 Specific requirements

The hair cream, lotion or gel shall comply with the chemical requirements as specified in Table 1 when tested according to the specified methods of test.

**Table 1 — Chemical requirements for hair creams, lotions and gels**

S.No.	Characteristic		Requirements	Test method
i)	pH	Hair cream gel or lotion	5 - 8	EAS 847-17
		Hair conditioners (rinse-off and leave-in)	3 - 6	
ii)	Thermal stability		To pass test	EAS 847-18
iii)	Rancidity		To pass test	EAS 847-13

### 5.3 Microbiological limits

Microbiological limits shall comply with the limits specified in Table 2.

**Table 2 — Microbiological limits for hair creams, lotions and gels**

Micro-organisms	Limits	Test method
Total viable count for aerobic mesophyllic microorganisms CFU/g or CFU/ml, max.	100	ISO 21149
<i>Pseudomonas aeruginosa</i>	Not detected in 1 ml or 1 g of cosmetic product	ISO 22717
<i>Staphylococcus aureus</i>		ISO 22718
<i>Candida albicans</i>		ISO 18416
<i>Escherichia coli</i>	Not detected in 1 g of cosmetic product	ISO 21150

### 5.4 Heavy metal contaminants

The products shall comply with the limits for heavy metal contaminants in accordance with Table 3.

**Table 3 — Limits for heavy metal contaminants for hair creams, lotions and gels**

S.No.	Characteristic	Limit mg/kg,max	Test method
i)	Lead	10	EAS 847-16
ii)	Arsenic	2	
iii)	Mercury	2	
NOTE The total amount of heavy metals as lead, mercury and arsenic, in combination, in the finished product should not exceed 10 mg/kg.			

## **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.

## **7 Labelling**

In addition, to the labelling requirements given in EAS 346, each package shall be legibly and indelibly marked with the product name as “Hair cream”, “Hair lotion” or “Hair gel”.

## **8 Sampling**

Sampling shall be carried in accordance with ISO 24153.

## Bibliography

- [1] EAS 339: 2013, *Hair creams, lotions and gels — Specification*
- [2] IS 7670:1975 *Specification for hair creams.*
- [3] 76/768/EEC *The European Economic Community Cosmetics Directive*

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