

**KENYA STANDARD**

DKS 35: 2018  
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# **Dairy Cream and Prepared Creams- Specification**

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## TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Kenya Dairy Board  
Ministry of Health — Food Safety Unit  
Directorate of Livestock production  
Directorate of Veterinary Services  
Egerton University — Department of Dairy and Food Science Technology  
Government Chemist's Department  
National Public Health Laboratory Services  
Kenya Industrial Research and Development Institute (KIRDI)  
New Kenya Creameries Cooperative (NKCC)  
Brookside Dairy Ltd.  
Eldoville Dairies Limited  
Githunguri Dairy  
Happy Cow Ltd  
Sameer Agriculture and Livestock (K) Limited  
KIBIDAV Ltd (TOGGS)  
Kenya Bureau of Standards — Secretariat

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PUBLIC REVIEW DRAFT

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## **Dairy Cream and Prepared Creams- Specification**

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## FOREWORD

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

Cream is the fluid milk product comparatively rich in fat, in the form of an emulsion of fat-in-skimmed milk, obtained by physical separation from milk.

This standard stipulates the compositional, quality, hygiene, contaminants and labelling requirements of cream and prepared creams

During the preparation of this standard, reference was made to the following documents:

Codex Standard 288-1976, Standard for Cream and Prepared Creams

Acknowledgement is hereby made for the assistance received from these sources.

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KENYA STANDARD

# Dairy Cream and Prepared Creams- Specification

## 1. SCOPE

This Kenya Standard prescribes the requirements and methods of sampling and test for dairy creams and prepared creams for direct consumption or further processing as defined in Section 3 of this Standard.

## 2. NORMATIVE REFERENCES

KS 1552, *Code of practice for milk and milk products*

KS EAS 38, *Labelling of pre-packaged foods*

KS CAC/GL 23, *Guidelines for use of nutrition claims*

KS CODEX STAN 193, *Codex general standard for contaminants and toxins in foods*

KS CODEX STAN 192, *Codex general standard for food additives*

KS ISO 6611, *Milk and milk products — Enumeration of colony—forming units of yeasts and/or moulds — Colony-count technique at 25 degrees C*

KS ISO 14501; *Milk and milk powder - Determination of aflatoxin M content - Clean-up by immunoaffinity chromatography and determination by high-performance liquid chromatography*

KS ISO 1740; *Milkfat products and butter -- Determination of fat acidity (Reference method)*

ISO 19660; *Cream -- Determination of fat content -- Acido-butyrometric method*

KS ISO 2450:2008; *Cream -- Determination of fat content -- Gravimetric method (Reference method)*

KS ISO/TS 22113 ; *Milk and milk products -- Determination of the titratable acidity of milk fat*

ISO/TS 6733; *Milk and milk products -- Determination of lead content -- Graphite furnace atomic absorption spectrometric method*

KS ISO/TS 9941; *Milk and canned evaporated milk -- Determination of tin content -- Spectrometric method*

ISO 5738; *Milk and milk products -- Determination of copper content -- Photometric method (Reference method)*

ISO 6732; *Milk and milk products -- Determination of iron content -- Spectrometric method (Reference method)*

AOAC 942.17, *Arsenic in foods Molybdenum blue method*

AOAC 999.10, *Lead, Cadmium, Copper, Iron, and Zinc in foods, Atomic Absorption Spectrophotometry after dry ashing*

AOAC 962.16 *Beta-lactam Antibiotics in milk*

AOAC 980.21, *Aflatoxin M1 in milk and cheese-thin layer chromatographic method*

AOAC 980.21, *organochlorine and organophosphorous pesticide residues in milk and milk products*

### 3. PRODUCT DESCRIPTION

**3.1 Cream** is the fluid<sup>1</sup> milk product comparatively rich in fat, in the form of an emulsion of fat-in-skimmed milk, obtained by physical separation from milk.

**3.1.1 Half and Half Cream** is a mix of half whole milk and half cream, typically used as a cream in coffee. It is also known as table or coffee cream.

**3.1.2 Single Cream** is Cream with a low fat-content, which does not thicken when beaten. It is also known as light cream

**3.1.5 Double Cream** it is a little thicker than whipping cream and richer in fat.

**3.1.6 Clotted Cream** Also known as Devonshire or Devon Cream. It is a thick, rich, yellowish cream with a scalded or cooked flavor that is made by heating unpasteurized milk until a thick layer of cream sit on top. The milk is cooled and the layer of cream is skimmed off.

**3.2 Reconstituted cream** is cream obtained by reconstituting milk products with or without the addition of potable water and with the same end product characteristics as the product described in Section 3.1.

**3.3 Recombined cream** is cream obtained by recombining milk products with or without the addition of potable water and with the same end product characteristics as the product described in Section 3.1.

**3.4 Prepared creams** are the milk products obtained by subjecting cream, reconstituted cream and/or recombined cream to suitable treatments and processes to obtain the characteristic properties as specified below.

**3.5 Pre-packaged liquid cream** is the fluid<sup>1</sup> milk product obtained by preparing and packaging cream, reconstituted cream and/or recombined cream for direct consumption and/or for direct use as such.

**3.6 Whipping cream** is the fluid<sup>1</sup> cream, reconstituted cream and/or recombined cream that is intended for whipping. When cream is intended for use by the final consumer the cream should have been prepared in a way that facilitates the whipping process.

**3.7 Cream packed under pressure** is the fluid<sup>1</sup> cream, reconstituted cream and/or recombined cream that is packed with a propellant gas in a pressure-propulsion container and which becomes Whipped Cream when removed from that container.

**3.8 Whipped cream** is the fluid<sup>1</sup> cream, reconstituted cream and/or recombined cream into which air or inert gas has been incorporated without reversing the fat-in-skimmed milk emulsion.

**3.9 Fermented/ Sour cream** is the milk product obtained by fermentation of cream, reconstituted cream or recombined cream, by the action of suitable micro-organisms, that results in reduction of pH with or without coagulation. Where the content of (a) specific micro-organism(s) is(are) indicated, directly or indirectly, in the labelling or otherwise indicated by content claims in connection with sale, these shall be present, viable, active and abundant in the product to the date of minimum durability. If the product is heat-treated after fermentation the requirement for viable micro-organisms does not apply.

**3.10 Acidified cream** is the milk product obtained by acidifying cream, reconstituted cream and/or recombined cream by the action of acids and/or acidity regulators to achieve a reduction of pH with or without coagulation

## **4. ESSENTIAL COMPOSITION AND QUALITY FACTORS**

### **3.1 RAW MATERIALS**

All creams and prepared creams:

Milk, which may have been subjected to mechanical and physical treatments prior to cream processing  
Additionally, for creams made by reconstitution or recombination:

Butter, milk fat products, milk powders, cream powders, and potable water

Additionally, for prepared creams described in Section 3.4.2 through to Section 3.4.6:

The product that remains after the removal of milk fat by churning milk and cream to manufacture butter and milk fat products (often referred to as buttermilk) and that may have been concentrated and/or dried.

### **4.2 Permitted ingredients**

Only those ingredients listed below may be used for the purposes and product categories specified, and only within the limitations specified.

For use in products only for which stabilizers and/or thickeners are justified (see table in Section 4):

- Products derived exclusively from milk or whey and containing 35% (m/m) or more of milk protein of any type (including casein and whey protein products and concentrates and any combinations thereof) and milk powders: These products can be used in the same function as thickeners and stabilizers, provided they are added only in amounts functionally necessary not exceeding 20 g/kg, taking into account any use of the stabilizers and thickeners listed in Section 4.
- Gelatine and starch: These substances can be used in the same function as stabilizers, provided they are added only in amounts functionally necessary as governed by Good Manufacturing Practice taking into account any use of the stabilizers/thickeners listed in section 4.

Additionally, for use in fermented cream, only:

- Starter cultures of harmless micro-organisms including those specified in Section 2 of the Standard for Fermented Milks (CODEX STAN 243-2003).

Additionally, for use in fermented cream and acidified cream, only:

- Rennet and other safe and suitable coagulating enzymes to improve texture without achieving enzymatic coagulation.
- Sodium chloride or potassium chloride

### **4.3 Composition**

Cream or prepared creams shall comply with the milk fat contents in Table 1.

**Table 1: Compositional Requirements for Creams**

S/N	Characteristic	Half and Half/ table/ coffee/cooking cream	Single/ light cream	Double cream	Whipping cream	Clotted Cream	TEST METHOD
i.	Free fatty acid, as lactic acid (%) m/m, max.	-0.06 – 0.10 %	-0.06 – 0.10 %	-0.06 – 0.10 %	0.06 – 0.10 %	0.06 – 0.10 %	KS ISO 1740
ii.	Milk fat % (m/m), min.	10-18%	18-30%	48%-60%	30-38%	55-60%	KS ISO 2450/ KS ISO 19660
iii.	pH	6.60 – 6.70	6.60 – 6.70	6.60 – 6.70	6.60 – 6.70	6.60 – 6.70	KS ISO/TS 22113
iv.	Total solids content, % (m/m)	-	-	-	-	-	KS ISO 6731

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Compositional modification below the minimum specified above for milk fat is not considered to be in compliance with the Section 4.3.3 of the *General Standard for the Use of Dairy Terms* (CODEX STAN 206-1999).

## 5. FOOD ADDITIVES

Only those additives classes indicated in the table below may be used for the product categories specified. Within each additive class, and where permitted according to the table, only those additives listed below may be used and only within the limits specified

Stabilizers and thickeners, including modified starches may be used singly or in combination, in compliance with the definitions for milk products and only to the extent that they are functionally necessary, taking into account any use of gelatine and starch as provided for in Section 4.2.

Product category	Additive			
	Stabilizers(a)	Acidity regulators(a)	Thickeners(a) and emulsifier	Packing gases and
Prepackaged liquid cream	X	X	X	–
Whipping cream (2.4.2):	X	X	X	–
Cream packed under pressure (2.4.3):	X	X	X	X
Whipped cream (2.4.4):	X	X	X	X
Fermented cream (2.4.5):	X	X	X	–
Acidified cream (2.4.6):	X	X	X	–

(a) These additives may be used when needed to ensure product stability and integrity of the emulsion, taking into consideration the fat content and durability of the product. With regard to the durability, special consideration should be given to the level of heat treatment applied since some minimally pasteurized products do not require the use of certain additives.

X The use of additives belonging to the class is technologically justified.

– The use of additives belonging to the class is not technologically justified.

INS	Name of additive	Maximum level
<b>Acidity regulators</b>		
270	Lactic acid, L-, D- and DL-	GMP
325	Sodium lactate	GMP
326	Potassium Lactate	GMP
327	Calcium lactate	GMP
330	Citric acid	GMP
333	Calcium citrates	GMP
500(i)	Sodium carbonate	GMP
500(ii)	Sodium hydrogen carbonate	GMP
500(iii)	Sodium sesquicarbonate	GMP
501(i)	Potassium carbonate	GMP
501(ii)	Potassium hydrogen carbonate	GMP
<b>Stabilizers and thickeners</b>		
170(i)	Calcium carbonate	GMP
331(i)	Sodium dihydrogen citrate	GMP
331(iii)	Trisodium citrate	GMP
332(i)	Potassium dihydrogen citrate	GMP
332(ii)	Tripotassium citrate	GMP
516	Calcium sulphate	GMP
339(i)	Monosodium dihydrogen	1 100 mg/kg expressed as phosphorus
339(ii)	Disodium hydrogen phosphate	
339(iii)	Trisodium phosphate	
340(i)	Potassium dihydrogen phosphate	
340(ii)	Dipotassium hydrogen phosphate	
340(iii)	Tripotassium phosphate	
341(i)	Calcium dihydrogen phosphate	
341(ii)	Calcium hydrogen phosphate	
341(iii)	Tricalcium phosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	
450(iii)	Tetrasodium diphosphate	
450(v)	Tetrapotassium diphosphate	
450(vi)	Calcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphate	
452(v)	Ammonium polyphosphate	
400	Alginic acid	GMP
401	Sodium alginate	GMP

402	Potassium alginate	GMP
403	Ammonium alginate	GMP
404	Calcium alginate	GMP
405	Propylene glycol alginate	5 000 mg/kg
406	Agar	GMP
407	Carrageenan	GMP
407a	Processed eucheima seaweed	GMP
410	Carob bean gum	GMP
412	Guar gum	GMP
414	Gum arabic (Acacia gum)	GMP
415	Xanthan gum	GMP
418	Gellan gum	GMP
440	Pectins	GMP
460(i)	Microcrystalline cellulose	GMP
460(ii)	Powdered cellulose	GMP
461	Methyl cellulose	GMP
463	Hydroxypropyl cellulose	GMP
464	Hydroxypropyl methyl cellulose	GMP
465	Methyl ethyl cellulose	GMP
466	Sodium carboxymethyl cellulose	GMP
472e	Diacetyltartaric and fatty acid	5 000 mg/kg
508	Potassium chloride	GMP
509	Calcium chloride	GMP
1410	Monostarch phosphate	GMP
1412	Distarch phosphate	GMP
1413	Phosphated distarch phosphate	GMP
1414	Acetylated distarch phosphate	GMP
1420	Starch acetate	GMP
1422	Acetylated distarch adipate	GMP
1440	Hydroxypropyl starch	GMP
1442	Hydroxypropyl distarch	GMP
1450	Starch sodium octenyl succinate	GMP
<b>Emulsifiers</b>		
322(i)	Lecithin	GMP
432	Polyoxyethylene (20) sorbitan	1 000 mg/kg
433	Polyoxyethylene (20) sorbitan	
434	Polyoxyethylene (20) sorbitan	
435	Polyoxyethylene (20) sorbitan	
436	Polyoxyethylene (20) sorbitan	
471	Mono- and diglycerides of fatty	GMP
472a	Acetic and fatty acid esters of	GMP
472b	Lactic and fatty acid esters of	GMP
472c	Citric and fatty acid esters of	GMP
473	Sucrose esters of fatty acids	5 000 mg/kg
475	Polyglycerol esters of fatty acids	6 000 mg/kg
491	Sorbitan monostearate	5 000 mg/kg

492	Sorbitan tristearate	
493	Sorbitan monolaurate	
494	Sorbitan monooleate	
495	Sorbitan monopalmitate	
<b>Packing gases</b>		
290	Carbon dioxide	GMP
941	Nitrogen	GMP
<b>Propellant</b>		
942	Nitrous oxide	GMP

## 6. HYGIENE

**6.1** It is recommended that the products covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the *General Principles of Food Hygiene* (CAC/RCP 1-1969), the *Code of Hygienic Practice for Milk and Milk Products* (KS 1552) and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice. The products should comply with any microbiological criteria established in accordance with the *Principles for the Establishment and Application of Microbiological Criteria for Foods* (KS CAC/GL 21-1997).

**6.2** The products shall comply with any microbiological criteria established in accordance with Table 4 below.

**Table 4 — Microbiological requirements for creams**

S/N	Quality	Requirements Cfu/g	Test method
	Total plate count /g max	$2 \times 10^4$ cfu/g	KS ISO 4833
	Listeria monocytogenes max,	Nil per gram	KS ISO 4833
	Salmonella spp	Nil per gram	KS ISO 4833
	Shigella	Nil per gram	KS ISO 4833 KS ISO 21567
	Clostridium botulinum	Nil per gram	KS ISO 4833
	Staphylococcus aureus	Nil per gram	KS ISO 4833
	E.coli	Nil per gram	KS ISO 4833
	Faecal coliforms:, max	Nil per gram	KS ISO 4832
	Non-faecal coliforms, max	10 cfu/g	KS ISO 4832
	Mould, max	100 cfu/g	KS ISO 6611
	Yeast, max	100 cfu/g	KS ISO 6611

### 7.1 Contaminants

The products covered by this Standard shall comply with the Maximum Levels for contaminants that are specified for the product in the *General Standard for Contaminants and Toxins in Food and Feed* (KS CODEX STAN 193-1995).

The milk used in the manufacture of the products covered by this Standard shall comply with the Maximum Levels for contaminants and toxins specified for milk by the *General Standard for Contaminants and Toxins in Food and Feed* (KS CODEX STAN 193-1995) and with the maximum residue limits for veterinary drug residues and pesticides established for milk by the CAC.

## 7.1 Heavy metals

The products covered by this standard shall comply with the maximum limits in Table 5

**Table 5 — Limits for heavy metal contaminants for Creams**

SL No	Heavy metal	MRL (Max.)	Test method
i).	Arsenic (AS)	0.1 mg/kg	AOAC 942.17
ii).	Lead (PH)	0.02 mg/kg	AOAC 972.25 / KS ISO 6733
iii).	Mercury (Hg)	1.0 mg/kg	AOAC 999.10
iv).	Copper (Cu)	5.0 mg/kg	AOAC972.25 / KS ISO 5738
v).	Zinc (Zn)	50 mg/kg	AOAC 999.10
vi).	Tin (Sn)	250 mg/kg	AOAC 999.10
vii).	Cadmium as Cd,	1.5 mg/kg	AOAC 999.10
viii).	Iron (fe),	0.5 mg/kg	AOAC 999.11/ KS ISO 6732

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## 7.2 Pesticide residues

In addition to the maximum limits established by the Codex Alimentarius Commission for these products in codex Stan 193; the products covered by the provisions of this standard shall comply with the Maximum Levels for contaminants specified in table 6 below;

**Table 6- maximum residue limits for Creams**

S/N	Parameter	Requirements	Test method
i	ORGANOCHLORINE Group	0.01 ppm	KS ISO 3890-1:2009 OR AOAC 970.52
ii	ORGANOPHOSPHOROUS Group	0.01 ppm	AOAC 970.52

### 7.3 Mycotoxin residues

Creams shall not have more than 0.5 µg/kg aflatoxin M1 content when tested according to KS ISO 14501:2007/ AOAC 980.21, Aflatoxin M1 in milk and cheese- thin layer chromatographic method

### 7.4 Antibiotics

Creams shall not have more than 10.0 ppb total antibiotic as (beta lactam) content when tested according to AOAC 962.16, Beta-lactam Antibiotics in milk

## 8 PACKAGING AND LABELLING

### 8.1 Packaging

The product shall be packed in food grade material that ensures product safety and integrity.

### 8.2 Labelling

In addition to the provisions of KS EAS 38 and the General Standard for the Use of Dairy Terms (KS CODEX STAN 206-1999), the following specific provisions shall apply:

#### 8.2.1 Name of the food

The name of the food shall be as specified in section 3 of this Standard, as appropriate and taking into account section 7.1.3. However, "prepackaged liquid cream" may be designated as "cream" and "cream packed under pressure" may be designated by another descriptive term that refers to its nature or intended use or as "Whipped Cream". The term "prepared cream" should not apply as a designation.

The products covered by this Standard may alternatively be designated with other names specified in the national legislation of the country in which the product is manufactured and/or sold or with a name existing by common usage, provided that such designations do not create an erroneous impression in the country of retail sale regarding the character and identity of the food.

In addition, labelling statements, such as product designation of fermented creams and content claims, may include reference to the terms "Acidophilus", "Kefir", and "Kumys", as appropriate, provided that the product has been fermented by the corresponding specific starter culture(s) specified in section 3.1 of the *Standard for Fermented Milks* (KS 941)), and provided that the product complies with those compositional microbiological criteria that are applicable to the corresponding fermented milk as specified in section 4.3 of that Standard.

- 7.1.2 The designation shall be accompanied by an indication of the fat content that is acceptable in the country of retail sale, either as a numerical value or by a suitable qualifying term, either as part of the name or in a prominent position in the same field of vision. Nutrition claims, when used, shall be in accordance with the *Guidelines for Use of Nutrition Claims* (CAC/GL23-1997). For this purpose only, the level of 30% milk fat constitutes the reference.
- 7.1.3 Creams which have been manufactured by the recombination or reconstitution of dairy ingredients as specified in Sections 3.2 and 3.3 shall be labelled as "Recombined cream" or "Reconstituted cream" or another truthful qualifying term if the consumer would be misled by the absence of such labelling.
- 7.1.4 An appropriate description of the heat treatment should be given, either as part of the name or in a prominent position in the same field of vision, if the consumer would be misled by the absence of such labelling.

When reference is made in the labelling to the type of heat treatment(s) applied, the definitions established by the Codex Alimentarius Commission shall apply.

#### **8.2.2 Declaration of milk fat content**

The milk fat content shall be declared in a manner acceptable in the country of sale to the final consumer, either as (i) a percentage of mass or volume, (ii) in grams per serving as qualified in the label, provided that the number of servings is stated.

Where the fat content of the product is indicated by a numerical value in accordance with Section 7.1.2, such indication may constitute the fat declaration, provided that the indication includes any additional information as required above.

#### **8.2.3 Country of origin**

The country of origin (which means the country of manufacture, not the country in which the name originated) shall be declared. When the product undergoes substantial transformation<sup>3</sup> in a second country, the country in which the transformation is performed shall be considered to be the country of origin for the purpose of labelling.

#### **8.2.4 Labelling of non-retail containers**

Information required in Section 7 of this Standard and Sections 4.1 to 4.8 of the *General Standard for the Labelling of Prepackaged Foods* (CODEX STAN 1-1985), and, if necessary, storage instructions, shall be given either on the container or in accompanying documents, except that the name of the product, lot identification, and the name and address of the manufacturer or packer shall appear on the container. However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark provided that such a mark is clearly identifiable with the accompanying documents.

#### **8.2.5 Date marking:**

- i) Date of manufacture
-

- ii) Expiry date;
- ii) Storage instructions and / or conditions

#### **8.2.6 Name and address of manufacturer**

#### **8.2.7 Net contents**

#### **8.2.8 Lot identification**

### **9 Methods of Analysis and Sampling**

The products covered by the provisions of this standard shall be tested using appropriate standard methods declared in this standard. Other test may be performed as per the methods given in the latest AOAC/ Codex/ ISO and other internationally recognized methods

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