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►**B**

COMMISSION REGULATION (EC) No 1854/96

of 26 September 1996

establishing a list of reference methods to be applied for the analysis and quality evaluation of milk and milk products under the common market organization

(OJ L 246, 27.9.1996, p. 5)

Amended by:

		Official Journal		
		No	page	date
►**M1**	Commission Regulation (EC) No 658/97 of 16 April 1997	L 100	14	17.4.1997
►**M2**	Commission Regulation (EC) No 1997/97 of 14 October 1997	L 282	13	15.10.1997

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COMMISSION REGULATION (EC) No 1854/96

of 26 September 1996

establishing a list of reference methods to be applied for the analysis and quality evaluation of milk and milk products under the common market organization

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Regulation No 804/68 of 27 June 1968 on the common organization of the market in milk and milk products [1], as last amended by Regulation (EC) No 1587/96 [2], and in particular Articles 6 (6), 7 (5), 8 (4), 9 (3), 10 (3), 11 (3), 12 (3), 13 (3), 16 (1) and (4), and 17 (14) thereof,

Whereas Article 2 (1) of Commission Regulation (EC) No 2721/95 of 24 November 1995 on the establishment of rules for the application of reference and routine methods for the analysis and quality evaluation of milk and milk products under the common market organization [3], specifies, that each year a list of reference methods applicable for the analyses mentioned in Article 1 of that Regulation has to be established; whereas a first list has been drawn up and should be adopted;

Whereas the measures provided for in this Regulation are in accordance with the opinion of the Management Committee for Milk and Milk Products,

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to this Regulation contains the list of reference methods applicable to the analyses referred to in Article 1 of Commission Regulation (EC) No 2721/95.

Article 2

This Regulation shall enter into force on 1 October 1996.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

[1] OJ No L 148, 28. 6. 1968, p. 13.
[2] OJ No L 206, 16. 8. 1996, p. 21.
[3] OJ No L 283, 25. 11. 1995, p. 7.

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ANNEX

LIST OF REFERENCE METHODS PURSUANT TO REGULATION (EC) No 2721/95

Index:

Min. = minimum, Max. = maximum, Annex = Annex to quoted Regulation, SnF = solids not fat, FFA = free fatty acids, PV = peroxide value, A = appearance, F = flavour, C = consistency, TBC = total bacterial count, Therm = thermophilic bacterial count, MS = Member State, IDF = International Dairy Federation, ISO = International Standards Organization, IUPAC = International Union of Pure and Applied Chemistry, ADPI = American Dairy Products Institute, SCM= sweetened condensed milk, EMC = evaporated milk or cream, MSNF = milk solids non fat, WC = whey cheese.

Part A

Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
Regulation (EC) No 454/95: Public Storage	Unsalted Butter	Milk-Fat	82 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
		S.n.F.	2 % Max	IDF Standard 80:1977	
		Fat acidity (Max)	1,2 mmol/100 g fat	IDF Standard 6B:1989	
		P.V. (Max)	0,3 mequiv. oxygen/1 000 g fat	IDF Standard 74A:1991 (English Version)	Note 1
		Coliform	not detectable in 1 g	Regulation (EC) No 1080/96 (OJ L 142, 15. 6. 1996, p. 13)	Note 3
		non milk fat	not detectable by triglyceride analysis	Annex III	
		Sterol tracers	not detectable	Regulation (EC) No 86/94 (OJ L 17, 20. 1. 1994, p. 7)	
		Other tracers	not detectable	Methods approved by competent authority	Note 2
		Sensory Characteristics	At least 4 out of 5 points for A, F, C	Annex IV	
		Water dispersion	At least 4 points	IDF Standard 112A:1989	
Regulation (EC) No 454/95:Private Storage	Unsalted Butter	Milk-Fat	82 % Min	IDF Standard 80:1977	Note 6
		Water	16 % Max	IDF Standard 80:1977	
Regulation (EC) No 454/95: Private Storage	Salted Butter	Milk-Fat	80 % Min	IDF Standard 80:1977	Note 6

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		Water	16 % Max	IDF Standard 80:1977	
		Salt	2 % Max	IDF Standard 12B:1988	
Regulation (EEC) No 570/88	Non-salted butter	Milk-Fat	82 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
		Tracers			
		Sterols		Regulation (EC) No 86/94	
		Vanillin		Methods approved by competent authority	Note 2
		Carotenic Acid Ethyl Ester		Regulation (EC) No 1082/96 (OJ L 142, 15. 6. 1996, p. 26)	
		Triglycerides of enanthic acid		IUPAC 2.301 sub 5	
Regulation (EEC) No 570/88	Salted butter	Milk-Fat	80 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
		Salt	2 % Max	IDF Standard 12B:1988	
		Tracers			
		Sterols		Regulation (EC) No 86/94	
		Vanillin		Methods approved by the competent authority	Note 2
		Carotenic Acid Ethyl Ester		Regulation (EC) No 1082/96	
		Triglycerides of enanthic acid		IUPAC 2 301 sub 5	
Regulation (EEC) No 570/88	Concentrated butter	Milk-Fat	99,8 % Min	IDF Standard 24:1964	
		Moisture & MSNF	0,2 % Max	IDF Standard 23A:1988 (moisture) IDF Standard 24:1964 (MSNF)	
		Fat acidity	0,35 % (oleic) Max	IDF Standard 6B:1989	
		P.V. (Max)	0,5 mequiv. oxygen/1 000 g fat	IDF Standard 74A:1991 (English Version)	Note 1
		Flavour	Fresh		
		Smell	absence of extraneous odours		
		Other	Absence of neutralising agents, anti-oxidants and preservatives		

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		Tracers			
		Sterols		Regulation (EEC) No 3942/92 (OJ L 399, 31. 12. 1992, p. 29)	
		Vanillin		Methods approved by competent authority	Note 2
		Carotenic Acid Ethyl Ester		Regulation (EC) No 1082/96	
		Triglycerides of enanthic acid		IUPAC 2 301 sub 5	
Regulation (EEC) No 570/88	Cream	Fat	35 % — 49 %	IDF Standard 16C:1987	
		Tracers			
		Sterols		Methods approved by competent authority	Note 2
		Vanillin		Methods approved by competent authority	Note 2
		Carotenic Acid Ethyl Ester		Methods approved by competent authority	Note 2
		Triglycerides of enanthic acid		IUPAC 2 301 sub 5	
Regulation (EEC) No 429/90	Concentrated butter	Milk-Fat	96 % Min	Methods approved by competent authority	Note 2
		S.n.f.	2 % Max	Methods approved by competent authority	Note 2
		Tracers			
		stigmasterol (95 %)	15 g/100 kg Butter concentrate	Regulation (EEC) No 3942/92 (OJ L 399, 31. 12. 1992, p. 29)	
		stigmasterol (85 %)	17 g/100 kg Butter concentrate	Regulation (EEC) No 3942/92	
		triglycerides of enanthic acid	1,1 kg/100 kg Butter concentrate	IUPAC 2 301 sub 5	
		ethyl ester of butyric acid and stigmasterol	see Annex point 1 (c)	Regulation (EEC) No 3942/92 (stigmasterol) and method approved vy competent authority (butyric acid)	Note 2
		lecithin (E322)	0,5 % Max	Methods approved by competent authority	Note 2

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		NaCl	0,75 % Max	IDF Standard 12B:1988	
		Fat acidity	0,35 % (oleic) Max	IDF Standard 6B:1989	
		P.V. (Max)	0,5 mequiv. oxygen/1 000 g fat	IDF Standard 74A:1991 (English version)	Note 1
		Flavour	fresh		
		Smell	absence of extraneous odours		
		Other	absence of neutralising agents, anti-oxidants and preservatives		
Regulation (EEC) No 2191/81	Non-salted butter	Milk fat	82 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
Regulation (EEC) No 2191/81	Salted butter	Milk fat	80 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
		Salt	2 % Max	IDF Standard 12B:1988	
Regulation (EEC) No 2990/82	Non-salted butter	Milk fat	82 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
Regulation (EEC) No 2990/82	Salted butter	Milk fat	80 % Min	IDF Standard 80:1977	
		Water	16 % Max	IDF Standard 80:1977	
		Salt	2 % Max	IDF Standard 12B:1988	
Regulation (EC) No 1081/96	Cheese made from ewes' and/or goats' milk	Cows' milk	< 1 %	Regulation (EEC) No 1081/96 (OJ L 142, 15. 6. 1996, p. 15)	
Regulation (EEC) No 2921/90	Annex I — Acid Casein	Water	12,00 % Max	IDF Standard 78C:1990	
		Fat	1,75 % Max	IDF 127A:1988	
		Free acidity	0,30 % (lactic) Max	IDF Standard 91:1979	
Regulation (EEC) No 2921/90	Annex I — Rennet Casein	Water	12,00 % Max	IDF Standard 78C:1990	
		Fat	1,00 % Max	IDF 127A:1988	
		Ash	7,50 % Min	IDF Standard 90:1979	
Regulation (EEC) No 2921/90	Annex I — Caseinate	Water	6,00 % Max	IDF Standard 78C:1990	

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		Milk Protein	88,00 % Min	IDF Standard 92:1979	
		Fat & Ash	6,00 % Max	IDF 127A:1988 IDF Standard 89:1979 or IDF Standard 90:1979	
Regulation (EEC) No 2921/90	Annex II — Acid Casein	Water	10,00 % Max	IDF Standard 78C:1990	
		Fat	1,50 % Max	IDF 127A:1988	
		Free acidity	0,20 % (lactic) Max	IDF Standard 91:1979	
		T.B.C. (Max)	30 000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	absence/0,1 g	Regulation (EC) No 1080/96	Note 3
		Therm. (Max)	5 000/1 g	IDF Standard 100B:1991	Notes 3, 4
Regulation (EEC) No 2921/90	Annex II — Rennet Casein	Water	8,00 % Max	IDF Standard 78C:1990	
		Fat	1,00 % Max	IDF 127A:1988	
		Ash	7,50 % Min	IDF Standard 90:1979	
		T.B.C. (Max)	30 000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	absence/0,1 g	Regulation (EC) No 1080/96	Note 3
		Therm. (Max)	5 000/1 g	IDF Standard 100B:1991	Notes 3, 4
Regulation (EEC) No 2921/90	Annex II — Caseinate	Water	6,00 % Max	IDF Standard 78C:1990	
		Milk Protein	88,00 % Min	IDF Standard 92:1979	
		Fat & Ash	6,00 % Max	IDF 127A:1988 IDF 89:1979 or IDF 90:1979	
		T.B.C. (Max)	30 000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	absence/0,1 g	Regulation (EC) No 1080/96	Note 3
		Therms (Max)	5 000/1 g	IDF Standard 100B:1991	Note 3, 4
Regulation (EEC) No 2921/90	Annex III — Caseinate	Water	6,00 % Max	IDF Standard 78C:1990	

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		Milk Protein	85,00 % Min	IDF Standard 92:1979	
		Fat	1,50 % Max	IDF 127A:1988	
		Lactose	1,00 % Max	IDF Standard 106:1982	
		Ash	6,50 % Max	IDF 89:1979 or IDF 90:1979	
		T.B.C. (Max)	30 000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	absence/0,1 g	Regulation (EC) No 1080/96	Note 3
		Therm. (Max)	5 000/1 g	IDF Standard 100B:1991	Note 3, 4
Regulation (EEC) No 1725/79	Compound feedingstuffs & SMP (animal grade)	Water (acid buttermilk powder)	5 % Max	Annex VI	
		Water (SMP)	5 % Max	IDF Standard 26A:1993	
		Fat (SMP)	11 % Max	IDF Standard 9C:1987	
		Rennet Whey (SMP)	Absence	Annex IV	
		Starch (SMP)	Absence	Annex V	
		Water (Mixture)	5 % Max in non fat dry matter	IDF Standard 26A:1993	
		Fatty material (Mixture)	—	Directive 84/4/EEC (OJ L 15, 18. 1. 1984, p. 28)	Note 7
		Rennet Whey (Mixture)	Absence	Annex IV	
		SMP content (Final Product)	50 % Minimum	Annex III	
		Fatty matter (Final Product)	2,5 % or 5 % minimum	Directive 84/4/EEC	Note 7
		Starch (Final Product)	2 % Min	Annex V	Note 8
		Copper (Final Product)	25 ppm	Directive 78/633/EEC (OJ L 206, 29. 7. 1978, p. 43)	Note 9
Regulation (EC) No 322/96	SMP spray	Fat	1,0 % Max	IDF Standard 9C:1987	
		Protein	31,4 % (in non-fat dry matter)	IDF Standard 20B:1993	
		Water	3,5 % Max	IDF Standard 26A:1993	
		Acidity (N/10 NaOH)	19,5 mls Max	IDF Standard 86:1981	
		Lactates	150 mg/100 g Max	IDF Standard 69B:1987	
		Phosphatase	negative	ISO Standard 3356:1975	
		Solubility	0,5 ml Max at 24 °C	IDF 129A:1988	

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Commission Regulation	Product	Parameter	Limit	Reference method	Remarks
		Scorched Particles	disk B Min (15,0 mg)	ADPI:1990	
		T.B.C.	40 000/1 g	IDF Standard 100B:1991	Note 3
		Coliform	negative/0,1 g	Regulation (EC) No 1080/96	Note 3
		Buttermilk	negative	Annex VI	
		Whey — Rennet	negative	Annex V	
		Whey — Acid	negative	Method approved by competent authority	Note 2
		Antimicrobial agents		Annex VII	
Regulation (EEC) No 1105/68	Skimmed milk	Fat	1,0 % Max	IDF Standard 22B:1987	
		Solids non fat	8,75 % Min		Note 5
		Total solids	—	IDF Standard 21B:1987	
		Freezing Point	—	IDF 108B:1991	
Regulation (EEC) No 1105/68	Buttermilk	Fat	1,0 % Max	IDF Standard 22B:1987	
		Solids non fat	8,00 % Min		Note 5
		Total solids	—	IDF Standard 21B:1987	

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Part B

The reference methods listed under Part B are applicable to analyses of products covered by any of the regulations indicated in the first column

Commission Regulation	Product	CN code	Parameter	Limit	Reference method	Remark
Regulation (EC) No 1150/90 Regulation (EC) No 584/92 Regulation (EEC) No 1588/94 Regulation (EC) No 1466/95 Regulation (EC) No 1600/95 Regulation (EEC) No 1713/95 Regulation (EC) No 455/97	Milk and cream, not concentrated nor containing added sugar or other sweetening matter	0401	Fat (≤ 6 %)	The limits are those specified in the description to the CN-code for the particular product or where applicable those specified in Part 9 of the Export Refund Nomenclature in Regulation (EEC) No 3846/87	IDF Standard 1D:1996	
			Fat (> 6 %)		IDF Standard 16C:1987	
	Milk and cream, concentrated or containing added sugar or other sweetening matter	0402	Fat (liquid form)		IDF Standard 13C:1987	
			Fat (solid form)		IDF Standard 9C:1993	
			Sucrose (normal content)		IDF Standard 35A:1992	
			Sucrose (low content)		Method approved by competent authority	Note 2
			Total solids (SCM)		IDF Standard 15B:1991	
			Total solids (EMC)		IDF Standard 21B:1987	
	Buttermilk, fermented or acidified milk and cream, concentrated or unconcentrated containing added sugar or other sweetening matter	0403	Fat		IDF 1D:1996, IDF 9C:1987 IDF 16C:1987, IDF 22B:1987	
			Sucrose (normal content)		IDF Standard 35A:1992	
			Sucrose (low content)		Method approved by competent authority	Note 2
	Whey, concentrated containing added sugar or other sweetening matter; products consisting of natural milk constituents	0404	Fat		IDF 9C:1987, IDF 16C:1987 IDF 22B:1987	

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Commission Regulation	Product	CN code	Parameter	Limit	Reference method	Remark
			Protein		IDF Standard 20B:1993	
			Sucrose (normal content)		IDF Standard 35A:1992	
			Sucrose (low content)		Method approved by competent authority	Note 2
	Butter and other fats derived from milk; dairy spreads	*0405* Butter	Fat (if fat ≤ 85 %)		IDF Standard 80:1977	
			Water		IDF Standard 80:1977	
			Solids non fat		IDF Standard 80:1977	
			NaCl		IDF Standard 12B:1988	
		Butteroil	Fat (fat > 99 %)		IDF Standard 24:1964	
			Water (if fat > 99 %)		IDF Standard 23A:1988	
	Cheese and curd	0406	Fat		IDF Standard 5B:1986	
			Dry matter		IDF Standard 4A:1982	
			Dry matter (Ricotta)		IDF Standard 58:1970	
			NaCl		IDF Standard 88A:1988	
			Lactose		IDF Standard 79B:1991	

Notes to List of European Union Reference Methods

Note 1: Milk fat isolation as described in IDF Standard 6B:1989 (protection from light)

Note 2: No reference method has been established

Note 3: Sample preparation to be carried out according to IDF Standard 122C:1996 or according to IDF Standard 73A:1985

Note 4: Incubation for 48 hours at a temperature of 55 °C, precautions against drying-out of the growth medium to be taken

Note 5: % Solids non fat = % Total solids − % fat

Note 6: The butter must correspond to the national quality class of the Member State of production referred to in Annex II of Commission Regulation (EC) No 454/95

Note 7: Commission Directive 84/4/EEC (OJ L 15, 18. 1. 1984, p. 28)

Note 8: Commision Regulation (EC) No 1758/94 (OJ L 183, 19. 7. 1994, p. 14)

Note 9: Commission Directive 78/633/EEC (OJ L 206, 29. 7. 1978, p. 43)