COMMISSION REGULATION (EC) No 745/98

of 2 April 1998

amending Regulation (EC) No 1854/96 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 (EEC) No 804/68 of 27 June 1968 on the common organisation 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 establishing rules for the application of reference and routine methods for the analysis and quality evaluation of milk and milk products under the common market organisation [3] specifies that before 1 April each year a list of reference methods applicable for the analyses mentioned in Article 1 of that Regulation has to be established; whereas the lists are established by Commission Regulation (EC) No 1854/96 [4], as last amended by Regulation (EC) No 1997/97 [5]; whereas the list of reference methods should be updated; whereas the Annex to Regulation (EC) No 1854/96 should be replaced;

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 Regulation (EC) No 1854/96 is replaced by the Annex hereto.

Article 2

This Regulation shall enter into force on the third day following its publication in the *Official Journal of the European Communities.*

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

Done at Brussels, 2 April 1998.

For the Commission

Franz FISCHLER

Member of the Commission

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[1] OJ L 148, 28. 6. 1968, p. 13.
[2] OJ L 206, 16. 8. 1996, p. 21.
[3] OJ L 283, 25. 11. 1995, p. 7.
[4] OJ L 246, 27. 9. 1996, p. 5.
[5] OJ L 282, 15. 10. 1997, p. 13.

ANNEX

'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 Organisation, 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.

PART A:

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
Regulation (EC) No 454/95 Public storage	Unsalted butter	Milk fat	82 % min.	IDF Standard 80:1977	
		Water	16 % max.	IDF Standard 80:1977	
		SnF	2 % max.	IDF Standard 80:1977	
		Fat acidity (Max.)	1,2 mmol/100 g fat	IDF Standard 6B:1989	
		PV (Max.)	0,3 mequiv. oxygen/1 000 g fat	IDF Standard 74A:1991 (English version)	Note 1
		Coliform	not detectable in 1 g	Commission 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	Commission Regulation (EC) No 86/94 (OJ L 17, 20. 1. 1994, p. 7)	
		Other tracers:			
		— Vanillin	Not detectable	Methods approved by competent authority	Note 2
		— Carotenic acid ethyl ester	Not detectable	Regulation (EC) No 1082/96 (OJ L 142, 15. 6. 1996, p. 26)	
		— Triglyceride of enanthic acid	Not detectable	IUPAC 2.301 sub 5	
		Sensory characteristics	At least four out of five points for A, F, C	Annex IV	
		Water dispersion	At least four 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
		Water	16 % max.	IDF Standard 80:1977	
		Salt	2 % max.	IDF Standard 12B:1988	

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
Regulation (EC) No 2571/97	Non-salted butter	Milk fat	82 % min.	IDF Standard 80:1977	
		Water	16 % max.	IDF Standard 80:1977	
		Tracers:			
		— Sterols		Commission Regulation (EC) No 86/94	
		— Vanillin		Methods approved by competent authority	Note 2
		— Carotenic acid ethyl ester		Commission Regulation (EC) No 1082/96	
		— Triglycerides of enanthic acid		IUPAC 2.301 sub 5	
Regulation (EC) No 2571/97	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		Commission Regulation (EC) No 86/94	
		— Vanillin		Methods approved by competent authority	Note 2
		— Carotenic acid ethyl ester		Commission Regulation (EC) No 1082/96	
		— Triglycerides of enanthic acid		IUPAC 2.301 sub 5	
Regulation (EC) No 2571/97	Concentrated butter	Milk fat	99,8 % min.	IDF Standard 24:1964	
		Moisture and MSNF	0,2 % max.	IDF Standard 23A:1988 (moisture) IDF Standard 24:1964 (MSNF)	
		Fat acidity	0,35 % (oleic) max.	IDF Standard 6B:1989	
		PV (max.)	0,5 mequiv. oxygen/1 000 g fat	IDF Standard 74A:1991 (English version)	Note 1
		Non milk fat	absent	Annex III to Regulation (EC) No 454/95 (OJ L 46, 1. 3. 1995, p. 1)	
		Flavour	Fresh		
		Smell	Absence of extraneous odours		
		Other	Absence of neutralising agents, antioxidants and preservatives		
		Tracers:			
		— Sterols		Commission 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		Commission Regulation (EC) No 1082/96	
		— Triglycerides of enanthic acid		IUPAC 2.301 sub 5	

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
Regulation (EC) No 2571/97	Cream	Fat	35 %	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
		Snf	2 % max.	Methods approved by competent authority	Note 2
		Tracers:			
		— Stigmasterol (95 %)	15 g/100 kg butter concentrate	Commission Regulation (EEC) No 3942/92	
		— Stigmasterol (85 %)	17 g/100 kg butter concentrate	Commission 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)	Commission Regulation (EEC) No 3942/92 (stigmasterol) and method approved by competent authority (butyric acid)	Note 2
		— Lecithin (E322)	0,5 % max.	Methods approved by competent authority	Note 2
		NaCl	0,75 % max.	IDF Standard 12B:1988	
		Fat acidity	0,35 % (oleic) max.	IDF Standard 6B:1989	
		PV (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, antioxidants 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	

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
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 %	Commission Regulation (EC) 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:1991	
		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:1991	
		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:1991	
		Milk protein	88,00 % min.	IDF Standard 92:1979	
		Fat and 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:1991	
		Fat	1,50 % max.	IDF 127A:1988	
		Free acidity	0,20 % (lactic) max.	IDF Standard 91:1979	
		TBC (max.)	30,000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	Absence/0,1 g	Commission Regulation (EC) No 1080/96	Note 3
		Therm. (max.)	5,000/1 g	IDF Standard 100B:1991	Note 3, 4
Regulation (EEC) No 2921/90	Annex II — Rennet casein	Water	8,00 % max.	IDF Standard 78C:1991	
		Fat	1,00 % max.	IDF 127A:1988	
		Ash	7,50 % min.	IDF Standard 90:1979	
		TBC (max.)	30,000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	Absence/0,1 g	Commission Regulation (EC) No 1080/96	Note 3
		Therm. (max.)	5,000/1 g	IDF Standard 100B:1991	Note 3, 4
Regulation (EEC) No 2921/90	Annex II — Caseinate	Water	6,00 % max.	IDF Standard 78C:1991	
		Milk Protein	88,00 % min.	IDF Standard 92:1979	
		Fat and ash	6,00 % max.	IDF 127A:1988 IDF 89:1979 or IDF 90:1979	
		TBC (max.)	30,000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	absence/0,1 g	Commission Regulation (EC) No 1080/96	Note 3
		Therm. (max.)	5,000/1 g	IDF Standard 100B:1991	Note 3, 4

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
Regulation (EEC) No 2921/90	Annex III — Caseinate	Water	6,00 % max.	IDF Standard 78C:1991	
		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	
		TBC (max.)	30,000/1 g	IDF Standard 100B:1991	Note 3
		Coliforms	Absence/0,1 g	Commission Regulation (EC) No 1080/96	Note 3
		Therm. (max.)	5,000/1 g	IDF Standard 100B:1991	Notes 3 and 4
Regulation (EEC) No 1725/79	Compound feedingstuffs and 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)	—	Commission 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	Commission Directive 84/4/EEC	Note 7
		Starch (final product)	2 % min.	Annex V	Note 8
		Copper (final product)	25 ppm	Commission 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 % (min. 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	
		Scorched particles	disk B min. (15,0 mg)	ADPI:1990	
		TBC	40,000/1 g	IDF Standard 100B:1991	Note 3
		Coliform	negative/0,1 g	Commission 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	

Commission Regulation	Product	Parameter	Limit	Reference method	Remark
Regulation (EEC) No 1105/68	Skimmed milk	Fat	1 % 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 % max.	IDF Standard 22B:1987	
		Solids non fat	8,00 % min.		Note 5
		Total solids	—	IDF Standard 21B:1987	

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 (EEC) No 1150/90 Regulation (EC) No 1466/95 Regulation (EC) No 1600/95 Regulation (EC) No 2508/97	Milk and cream, not concentrated nor containing added sugar or other sweetening matter	CN code 0401	Fat (≤ 6 %) 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 Commission Regulation (EEC) No 3846/87 (OJ L 366, 24. 12. 1987, p. 1)	IDF Standard 1D:1996 IDF Standard 16C:1987	
	Milk and cream, concentrated or containing added sugar or other sweetening matter	CN code 0402	Fat (liquid form) Fat (solid form) Sucrose (normal content) Sucrose (low content)		IDF Standard 13C:1987 IDF Standard 9C:1993 IDF Standard 35A:1992 Method approved by competent authority	Note 2
			Total solids (SCM) Total solids (EMC)		IDF Standard 15B:1991 IDF Standard 21B:1987	
	Buttermilk, fermented or acidified milk and cream, concentrated or inconcentrated containing added sugar or other sweetening matter	CN code 0403	Fat		IDF 1D:1996, IDF 9C:1987 IDF 16C:1987, IDF 22B:1987 IDF 126A:1988	
			Sucrose (normal content) Sucrose (low content)		IDF Standard 35A:1992 Method approved by competent authority	Note 2

Commission Regulation	Product	CN code	Parameter	Limit	Reference method	Remark
	Whey, concentrated or unconcentrated containing added sugar or other sweetening matter; products consisting of natural milk constituents	CN code 0404	Fat		IDF 9C:1987, IDF 16C:1987	
			Protein		IDF 22B:1987	
			Sucrose (normal content)		IDF Standard 20B:1993	
			Sucrose (low content)		IDF Standard 35A:1992	
					Method approved by competent authority	Note 2
	Butter and other fats derived from milk; dairy spreads	CN code 0405	Fat (if fat ≤ 85 %)		IDF Standard 80:1977	
		Butter	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	CN code 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 to Commission Regulation (EC) No 454/95.
Note 7: Commission Directive 84/4/EEC.
Note 8: Commission Regulation (EC) No 1758/94 (OJ L 183, 19. 7. 1994, p. 14).
Note 9: Commission Directive 78/633/EEC.'