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EVALUATION OF FISHER CHEMICAL® REAGENTS

The objective of this study was to evaluate different Fisher Chemical® reagents, manufactured by Thermo Fisher Scientific company, used for analysis on milk and cheese.

The following test-reagents couples were evaluated:

- Sulfuric acid (code: S/9360/PB15) and isoamyl alcohol (code: A/7000/15) for the determination of fat content in milk according to the Gerber method NF ISO 19662.
- Petroleum ether 40-60 °C (code: P/1760/17) and diethyl ether (code: D/2450/17) for the determination of fat content in milk according to the Rose-Gottlieb method NF EN ISO 1211.
- Sulfuric acid 98 % (code: S/9250/15), sodium hydroxide 40 % (code: S/4960/17) and boric acid solution 4 % (code: K/0205/15) for the determination of nitrogen content in milk according to the Kjeldahl method NF EN ISO 8968-1.
- Acetic acid (code: A/0400/PB15) and perchloric acid 60 % (code: P/1240/PB15) for the determination of fat content in cheese according to the acido-butyrometric method NF V04-287 (Heiss).

All the characteristics of the reagents, except isoamyl alcohol (code: A/7000/15), fulfil to the requirements of the standards. Isoamyl alcohol does not fulfil requirements of the standardised method on the isomeric ratio (91 % \pm 2 % of 3-methylbutan-1-ol and 9 % \pm 2 % of 2-methylbutan-1-ol). The quality certificate points out only the proportion of the 2 isomers in the product (\geq 98 %).

1- THE TESTS

The tests were performed, in duplicate, on 4 reference samples (ACTALIA Cecalait SRMs) over 2 consecutive months from September to October 2019 in ACTALIA cecalait chemistry laboratory according to the methods tested (Gerber method NF ISO 19962, Röse-Gottlieb method NF EN ISO 1211, Kjeldahl method NF EN ISO 8968-1° and Heiss method NF V04-287).

The comparative tests were performed, in duplicate, on 10 samples of raw milk and cheese (Heiss method) analysed both with ACTALIA Cecalait's and Thermo Fisher Scientific's reagents. The cheeses analysed in this test are 4 soft cheeses, 2 hard cheeses and 4 semi-hard cheeses.

The reagents used by ACTALIA Cecalait for this study are presented in the following table:

	Gerber method	Röse Gottlieb method	Kjeldahl method	Heiss method
Reagents	- Sulfuric acid 90-91% <i>Panreac® ref. 121010</i> - Isoamyl alcohol <i>Panreac® ref. 125715</i>	- Petroleum ether 40-60°C <i>VWR Chemicals® ref.23835</i> - Diethyl ether <i>VWR Chemicals® ref.23809</i>	- Sulfuric acid 98% <i>Panreac® ref. 173163</i> - Sodium hydroxide <i>VWR Chemicals® ref.28248</i> - Boric Acid <i>Fluka® ref.31146</i>	- Acetic acid glacial <i>Panreac® ref. 131008</i> - Perchloric acid 60% <i>Panreac® ref. 131054</i>

Table 1: list of the reagents used by ACTALIA Cecalait

2- THE RESULTS

2-1. Reference samples (SRMs)

The following table presents the results obtained on the reference samples. The results correspond to the mean of 8 repetitions for the Gerber, Kjeldahl and Heiss methods and 7 repetitions for Röse-Gottlieb method (3 on SRM 10 LEXT and 4 on SRM 11 LEXT). The reference values are the SRM's assigned values, calculated from the results of a group of expert laboratories.

GERBER METHOD	SRM 08 LGER	Results (g/l)	Reference value (g/l)	SRM 09 LGER	Results (g/l)	Reference value (g/l)
	X	38.888	38.75	X	36.000	35.98
	Sx	0.048		Sx	0.041	
	d	0.137		d	0.020	
	CD 95	0.637		CD 95	0.637	
ROSE-GOTTLIEB METHOD	SRM 10 LEXT	Results (g/kg)	Reference value (g/kg)	SRM 11 LEXT	Results (g/kg)	Reference value (g/kg)
	X	35.64	35.57	X	35.02	35.02
	Sx	0.071		Sx	0.069	
	d	0.072		d	0.002	
	CD 95	0.308		CD 95	0.296	
KJELDAHL METHOD	SRM 08 LKJEL	Results (gN/kg)	Reference value (gN/kg)	SRM 09 LKJEL	Results (gN/kg)	Reference value (gN/kg)
	X	5.489	5.47	X	5.262	5.25
	Sx	0.005		Sx	0.006	
	d	0.019		d	0.012	
	CD 95	0.040		CD 95	0.040	
HEISS METHOD	SRM 08 FFO	Results (g/100g)	Reference value (g/100g)	SRM 09 FFO	Results (g/100g)	Reference value (g/100g)
	X	27.96	28.01	X	28.02	28.09
	Sx	0.186		Sx	0.120	
	d	-0.055		d	-0.074	
	CD 95	0.535		CD 95	0.535	

X: mean; Sx: standard deviation; d: mean deviation between the results and the reference value; CD 95: critical deviation according to ISO 5725-6.

Table 2: Results of the methods tests realised on 2 consecutive SRMs

It can be noted that for all the methods, the mean deviations for both samples batches obtained between the results and the reference values are lower than the critical deviation CD_{95} according to ISO 5725-6 (§ 4.2.3). For the Gerber method, the mean deviation is also lower than the limit usually applied in dairy laboratories for checking pilot samples (± 0.20 g/l).

2-2. Milk and cheese samples

The following table presents the results obtained on raw milk and cheese (Heiss method) samples. The results observed correspond to the mean of 2 repetitions performed in repeatability conditions (deviations between duplicates < 0.5 g/l).

METHOD	ID	X	Sx	d	Sd	Sr	CD ₉₅
GERBER METHOD	Results (g/l)	33.35	10.95	0.01	0.043	0.051	
	ACTALIA Cecalait results (g/l)	33.34	10.96			0.061	
ROSE-GOTTLIEB METHOD	Results (g/kg)	32.20	10.54	0.136	0.147	0.080	0.158
	ACTALIA Cecalait results (g/kg)	32.06	10.58			0.090	
KJELDAHL METHOD	Results (g/kg)	5.15	0.606	0.012	0.015	0.014	0.019
	ACTALIA Cecalait results (g/kg)	5.16	0.606			0.013	
HEISS METHOD	Results (g/100 g)	26.74	6.193	0.036		0.11	0.095
	ACTALIA Cecalait results (g/100 g)	26.71	6.262			0.14	

X, Sx: mean and standard deviation of the results; d: mean deviation between the results observed and the ACTALIA Cecalait's results; Sr: absolute standard deviation of repeatability; CD_{95} : critical deviation according to ISO 5725-6.

Table 3: Results of the methods on raw milk and cheese (Heiss method)

For the repeatability aspects, the absolute standard deviations are equivalent for the two analytical sets and lower than the limits of the reference methods for Gerber method ($S_r = 0.18\text{g/l}$), for Röse-Gottlieb method ($S_r = 0.16\text{g/kg}$), and for Kjeldahl method ($S_r = 0.022\text{ gN/kg}$), and closed to the limit of the reference method for Heiss method ($S_r = 0.11\text{ g/100g}$).

For accuracy, it can be noted that means are not statistically different (Student test at 5%) and the mean deviation for the Gerber method is very low (0.01 g/l).

In addition, we can observe that the calculated performances (d and S_d) are in accordance with the limits used in proficiency tests on determination of:

- fat content by Gerber method on milk ($\pm 0.20\text{ g/l}$ for mean bias and 0.30 g/l for standard deviation of differences).
- fat content by extraction method on milk ($\pm 0.20\text{ g/kg}$ for mean bias and 0.30 g/kg for standard deviation of differences).
- nitrogen content by Kjeldahl method on milk ($\pm 0.04\text{ gN/kg}$ for mean bias and 0.03 gN/kg for standard deviation of differences).
- fat in cheese by Heiss method ($\pm 0.30\text{ g/100 g}$ for mean bias and 0.30 g/100 g for standard deviation of differences).

Furthermore, we can pointed out that the mean deviations between the two analytical sets are lower than the critical deviations CD_{95} , calculated according to ISO 5725-6 (§ 4.2.1) from standardized values ($r = 0.43\text{ g/kg}$ and $R = 0.56\text{ g/kg}$ for Röse-Gottlieb method; $r = 0.06\text{ gN/kg}$ and $R = 0.077\text{ gN/kg}$ for Kjeldahl method; and $r = 0.3\text{ g/100g}$ and $R = 0.8\text{ g/100g}$ for Heiss method).

3- CONCLUSION

Except the amyl alcohol, all the reagents proposed by Thermo Fisher Scientific fulfil with the technical requirements of the standardized reference methods.

Concerning the performance tests conducted, all the reagents tested [sulfuric acid (Gerber test) (code: S/9360/PB15), isoamyl alcohol (code: A/7000/15), petroleum ether 40-60°C (code: P/1760:17), diethyl ether (code: D/2450/17), sulfuric acid 98% (code: S/9250/15), sodium hydroxide 40% (code: S/4960/17), boric acid solution 4% (code: K/0205/15), acetic acid glacial (code: A/0400/PB15) and perchloric acid 60% (code: P/1240/PB15)] allow to obtain equivalent results to those obtained with other reagents available on the market.

According to the evaluation report of the Fisher Chemical® reagents - A. OUDOTTE and Ph. TROSSAT – September to November 2019

STANDARDS - REGULATIONS

STANDARDS, DRAFT STANDARDS

Classification in alphabetical order by theme

ISO standards under development

MICROBIOLOGY OF THE FOOD CHAIN	
ISO/DIS 4833-1/Amd 1 September 2020	MICROBIOLOGY OF THE FOOD CHAIN Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 °C by the pour plate technique – Amendment 1: Clarification of scope
ISO/DIS 4833-2/Amd 1 September 2020	MICROBIOLOGY OF THE FOOD CHAIN Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30 °C by the surface plating technique – Amendment 1: Clarification of scope
ISO/DIS 15216-1/Amd 1 November 2020	MICROBIOLOGY OF THE FOOD CHAIN Microbiology of the food chain — Horizontal method for determination of hepatitis A virus and norovirus using real-time RT-PCR — Part 1: Method for quantification — Amendment 1
ISO/DIS 23418 December 2020	MICROBIOLOGY OF THE FOOD CHAIN Whole genome sequencing for typing and genomic characterization of foodborne bacteria – General requirements and guidance
QUALITY MANAGEMENT	
ISO/DIS 10013 July 2020	QUALITY MANAGEMENT SYSTEMS Guidance for documented information
ISO/DIS 10017 July 2020	QUALITY MANAGEMENT Guidance on statistical techniques for ISO 9001:2015
STATISTICAL METHODS IN PROCESS MANAGEMENT	
ISO/DIS 22514-7 June 2020	STATISTICAL METHODS IN PROCESS MANAGEMENT Capability and performance – Part 7: Capability of measurement processes

ISO published standards

MICROBIOLOGY OF THE FOOD CHAIN	
ISO 16140-4 July 2020	MICROBIOLOGY OF THE FOOD CHAIN Method validation – Part 4: Protocol for method validation in a single laboratory
ISO 16140-5 July 2020	MICROBIOLOGY OF THE FOOD CHAIN Method validation – Part 5: Protocol for factorial interlaboratory validation for non-proprietary methods
MILK AND MILK PRODUCTS	
ISO 21543 (IDF 201) October 2020	MILK AND MILK PRODUCTS Guidelines for the application of near infrared spectrometry <i>Replace ISO 21543:2006</i>
ISO 22186 (IDF 245) September 2020	MILK AND MILK PRODUCTS Determination of nitrofurazone
QUALITY MANAGEMENT	
ISO 10018 April 2020	QUALITY MANAGEMENT Guidance for people engagement
STATISTICAL METHODS IN PROCESS MANAGEMENT	
ISO 7870-9 June 2020	CONTROL CHARTS Part 9: Control charts for stationary processes
ISO 2859-4 June 2020	SAMPLING PROCEDURES FOR INSPECTION BY ATTRIBUTES Part 4: Procedures for assessment of declared quality levels <i>Replace ISO 2859-4:2002</i>
ISO/TR 22914 October 2020	Statistical methods for implementation of Six Sigma – Selected illustration of analysis of variance

NEW EU REGULATIONS

Classification is established in alphabetical order of the first keyword

CONTAMINANTS

O.J.E.U. L 310, 24th September 2020 – Commission Regulation (EU) 2020/1322 of 23 September 2020 amending Regulation (EC) No 1881/2006 as regards maximum levels of 3-monochloropropanediol (3-MCPD), 3-MCPD fatty acid esters and glycidyl fatty acid esters in certain foods

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.310.01.0002.01.ENG

P.D.O.

O.J.E.U. C 223, 7th July 2020 – Publication of an application for approval of an amendment, which is not minor, to a product specification pursuant to Article 50(2)(a) of Regulation (EU) No 1151/2012 of the European Parliament and of the Council on quality schemes for agricultural products and foodstuffs [Casciotta d'Urbino (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.C_.2020.223.01.0020.01.ENG

O.J.E.U. L 215, 7th July 2020 – Commission Implementing Regulation (EU) 2020/974 of 6 July 2020 entering a name in the register of protected designations of origin and protected geographical indications [Pecorino del Monte Poro (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.215.01.0011.01.ENG

O.J.E.U. L 242, 28th July 2020 – Commission Implementing Regulation (EU) 2020/1103 of 22 July 2020 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Brie de Melun (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.242.01.0001.01.ENG

O.J.E.U. L 267, 14th August 2020 – Commission Implementing Regulation (EU) 2020/1198 of 7 August 2020 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Piave (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.267.01.0001.01.ENG

O.J.E.U. C 295, 7th September 2020 – Publication of an application for approval of an amendment, which is not minor, to a product specification pursuant to Article 50(2)(a) of Regulation (EU) No 1151/2012 of the European Parliament and of the Council on quality schemes for agricultural products and foodstuffs [Munster / Munster-Géromé (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.C_.2020.295.01.0005.01.ENG

O.J.E.U. L 304, 18th September 2020 – Commission Implementing Regulation (EU) 2020/1300 of 11 September 2020 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Asiago (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.304.01.0005.01.ENG

O.J.E.U. L 309, 23rd September 2020 – Commission Implementing Regulation (EU) 2020/1319 of 22 September 2020 entering a name in the register of protected designations of origin and protected geographical indications [Provola dei Nebrodi (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.309.01.0007.01.ENG

O.J.E.U. C 315, 23rd September 2020 – Publication of an application for approval of an amendment, which is not minor, to a product specification pursuant to Article 50(2)(a) of Regulation (EU) No 1151/2012 of the European Parliament and of the Council on quality schemes for agricultural products and foodstuffs [Queijos da Beira Baixa (Queijo de Castelo Branco, Queijo Amarelo da Beira Baixa, Queijo Picante da Beira Baixa) (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.C_.2020.315.01.0003.01.ENG

O.J.E.U. C 317, 25th September 2020 – Publication of an application for approval of an amendment, which is not minor, to a product specification pursuant to Article 50(2)(a) of Regulation (EU) No 1151/2012 of the European Parliament and of the Council on quality schemes for agricultural products and foodstuffs [Stelvio / Stilsfer (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.C_.2020.317.01.0025.01.ENG

O.J.E.U. L 313, 28th September 2020 – Commission Implementing Regulation (EU) 2020/1337 of 21 September 2020 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Casatella Trevigiana (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.313.01.0001.01.ENG

O.J.E.U. L 313, 28th September 2020 – Commission Implementing Regulation (EU) 2020/1338 of 21 September 2020 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Pecorino Siciliano (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.313.01.0003.01.ENG

O.J.E.U. L 321, 5th October 2020 – Commission Implementing Regulation (EU) 2020/1390 of 28 September 2020 correcting Implementing Regulation (EU) 2020/914 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Brie de Meaux (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.321.01.0003.01.ENG

O.J.E.U. L 326, 8th October 2020 – Commission Implementing Regulation (EU) 2020/1415 of 1 October 2020 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Queijo Terrincho (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.326.01.0003.01.ENG

O.J.E.U. L 331, 12th October 2020 – Commission Implementing Regulation (EU) 2020/1433 of 5 October 2020 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Pouligny-Saint-Pierre (cheese) (PDO)]

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.L_.2020.331.01.0019.01.ENG

PESTICIDES

O.J.E.U. L 239, 24th July 2020 – Commission Regulation (EU) 2020/1085 of 23 July 2020 amending Annexes II and V to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for chlorpyrifos and chlorpyrifos-methyl in or on certain products

http://eur-lex.europa.eu/legal-content/FR/TXT/?uri=uriserv:OJ.C_.2020.239.01.0007.01.ENG

AFNOR VALIDATIONS

During its July meeting, the Technical Committee of NF VALIDATION approved by vote:

Commercial name	Date	Certificate	Description
RENEWALS OF VALIDATIONS			
3M™ MOLECULAR DETECTION ASSAY 2 – LISTERIA MONOCYTOGENES	Validation date: 30 Sep 2016 Renewal: 2 Jul 2020 End of validity: 30 Sep 2024	3M-01/15-09/16	Detection of <i>Listeria monocytogenes</i> All human food products and industrial production environmental samples
TRANSIA PLATE LISTERIA MONOCYTOGENES	Validation date: 27 Mar 2008 Renewal: 1 Dec 2011, 18 Mar 2016 and 2 Jul 2020 End of validity: 27 Mar 2024	TRA-02/11-03/08	Detection of <i>Listeria monocytogenes</i> All human food products and industrial production environmental samples
GENE-UP LISTERIA SPP.	Validation date: 29 Sep 2016 Extension: 24 Nov 2016, 3 Jul 2017 and 4 Dec 2018 Renewal: 2 Jul 2020 End of validity: 29 Sep 2024	BIO-12/39-09/16	Detection of <i>Listeria</i> spp. (except <i>Listeria Grayi</i>) All human food products and production environmental samples
GENEDISC SALMONELLA SPP.	Validation date: 28 Nov 2008 Extension: 27 Jan 2009, 4 Feb 2010, 20 Mar 2014 and 14 Oct 2015 Renewal: 23 May 2013, 24 Nov 2016 and 2 Jul 2020 End of validity: 28 Nov 2024	GEN-25/05-11/08	Detection of <i>Salmonella</i> spp. All human food products and animal feed
GENEDISC E. COLI O157:H7	Validation date: 28 Nov 2008 Extension: 27 Jan 2009, 4 Feb 2010, 20 Mar 2014 and 14 Oct 2015 Renewal: 23 May 2013, 24 Nov 2016 and 2 Jul 2020 End of validity: 28 Nov 2024	GEN-25/06-11/08	Detection of <i>E. coli</i> O157:H7 Raw beef meats, dairy products and vegetables
EXTENSIONS OF VALIDATIONS			
THERMO SCIENTIFIC SURETECT SALMONELLA SPECIES PCR ASSAY	Validation date: 4 Nov 2013 Extension: 30 Jan 2014, 21 Mar 2014, 30 Jun 2016, 24 Mar 2017, 3 Dec 2018, 16 May 2019 and 2 Jul 2020 Renewal: 22 Mar 2018 End of validity: 4 Nov 2021	UNI-03/07-11/13	Detection of <i>Salmonella</i> spp. All human food products, pet food and production environmental samples (except primary production environment)
RAPID' B. CEREUS	Validation date: 22 Mar 2019 Extension: 2 Jul 2020 End of validity: 22 Mar 2023	BRD-07/26-03/19	Enumeration of <i>Bacillus cereus</i> All human food products

AFNOR VALIDATIONS

<p>THERMO SCIENTIFIC SURETECT LISTERIA MONOCYTOGENES SPECIES PCR ASSAY</p>	<p>Validation date: 4 Nov 2013 Extension: 21 Mar 2014, 17 Mar 2016, 30 Jun 2016, 5 Oct 2018, 31 Jan 2019 and 2 Jul 2020 Renewal: 22 Nov 2017 End of validity: 4 Nov 2021</p>	<p>UNI-03/08-11/13</p>	<p>Detection of <i>Listeria monocytogenes</i> All human food products and production environmental samples</p>
<p>THERMO SCIENTIFIC SURETECT LISTERIA SPP PCR ASSAY</p>	<p>Validation date: 28 Nov 2013 Extension: 21 Mar 2014, 3 Jul 2014, 30 Jun 2016, 5 Oct 2018, 31 Jan 2019 and 2 Jul 2020 Renewal: 17 May 2018 End of validity: 28 Nov 2021</p>	<p>UNI-03/09-11/13</p>	<p>Detection of <i>Listeria</i> spp. All human food products and production environmental samples</p>
<p>THERMO SCIENTIFIC SURETECT CRONOBACTER SPECIES PCR ASSAY</p>	<p>Validation date: 3 Dec 2015 Extension: 30 Jun 2016, 3 Dec 2018 and 2 Jul 2020 Renewal: 22 Mar 2018 End of validity: 3 Dec 2023</p>	<p>UNI-03/11-12/15</p>	<p>Detection of <i>Cronobacter</i> spp. Infant formula and industrial production environmental samples</p>
<p>VALIDITY EXTENSION OF VALIDATION</p>			
<p>IQ-CHECK SALMONELLA II</p>	<p>Validation date: 1 Jul 2004 Extension: 24 May 2007, 28 Sep 2007, 25 Sep 2008, 4 Feb 2010, 3 Feb 2011, 1 Jul 2011, 22 Mar 2012 and 3 Oct 2013 Renewal: 27 Nov 2008, 10 May 2012, 17 Mar 2016 End of validity: 7 Jul 2020 Validity extended till: 31 Dec 2020</p>	<p>BRD-07/06-07/04</p>	<p>Detection of <i>Salmonella</i> spp. All human and animal food products and production environmental samples (including animal faeces and environmental samples from the primary production stage)</p>

The validation certificates and the recapitulative list are available at the following website address:
<http://www.afnor-validation.com/afnor-validation-validated-methods/validated-methods.html>

IN THE PRESS – ON THE WEB

Classification in alphabetical order of keywords

FOOD ADDITIVES

Opinion on the re-evaluation of starch sodium octenyl succinate (E 1450) as a food additive in foods for infants below 16 weeks of age and the follow-up of its re-evaluation as a food additive for uses in foods for all population groups

<https://efsa.onlinelibrary.wiley.com/doi/10.2903/j.efsa.2020.5874>

► As a follow-up to the re-evaluation of starch sodium octenyl succinate (E 1450), the Panel on Food Additives and Flavourings was requested to assess its safety when used in food for infants preparations. The Panel concluded that at use levels of starch sodium octenyl succinate in infant formula, there was no need for a numerical acceptable daily intake.

La Lettre de CECALAIT est éditée par ACTALIA Cecalait, B.P. 70129, 39801 POLIGNY CEDEX
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