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## EVALUATION OF THE AMALTHEYS® ANALYZER

The Amaltheys® analyzer is a conventional fluorescence-based patented sensor manufactured and commercialised by Spectralys. Soluble proteins (proteins in solution in the liquid phase, not integrated in the micellar system) can be quantified in milk and liquid dairy products using the principle of tryptophan fluorescence (excitation 280 nm and emission 337 nm) and products of the Maillard reaction. The calculation used is as follows: FAST index = [fluorescence of the Maillard products (excitation 340 nm and emission 430 nm)] / [tryptophane fluorescence (excitation 280 nm and emission 337 nm)] x 100.

This instrument contains internal software, which ensures the signal processing, calibrations and adjustments. To apply the method, the samples need to be prepared (selective precipitation with a buffer supplied and filtration), and the filtrate measured.

The reagents and consumables are supplied by the manufacturer in the form of kits. Freeze-dried standards and controls are also supplied by the manufacturer, to be reconstituted extemporaneously.

### The tests:

The evaluation tests were performed in Actilait-Cecalait's physico-chemistry laboratory (instrumental and reference analyses) from April to July 2012. Following the preliminary tests regarding stability, linearity and detection/quantification limits for soluble proteins (PS) and the "Fast" index (IF), the repeatability and accuracy in milk and concentrated whey were evaluated.

For PS, a freeze-dried control sample was used to calibrate the analyzer on the basis of a reference value (non casein nitrogen: ANC – non protein nitrogen: ANP). Following the calibration, the analyzer was verified using a freeze-dried milk sample on the basis of an ANC-ANP value. The analyzer was also checked before each series of measurements.

### **A- PRELIMINARY TESTS**

#### **A.1- Evaluation of the short-term stability**

16 series of 3 milk samples (raw, pasteurised and UHT) were analysed in consecutive duplicate every 15 minutes over about 4 hours. PS and IF were noted.

The relative standard deviations of reproducibility obtained for PS varied between 2.9 and 5.0 % according to the type of milk.

The relative standard deviations of reproducibility for IF were equivalent for all the types of heat treated milk (between 4.1 and 4.3 %).

#### **A.2- Evaluation of the linearity for soluble proteins**

A set of 10 milk samples ranging evenly from about 0 to 6 g/l was obtained by mixing raw and UHT milk. The volume/volume dilutions were obtained according to the adjusted weight of the densities. Each sample in the range was analysed in consecutive duplicate.

On the basis of the results observed, the response of the analyzer is linear for PS values between 0 and 6 g/l.

#### **A.3- Evaluation of the detection and quantification limits**

Regular dilutions of UHT milk and water, below PS values of 50 mg/l, were obtained according to the adjusted weight of the densities. The samples were analysed in quadruplicate. The detection and quantification limits were determined according to standard NF V 03-110: 1998.

On the basis of the results observed, the limits were calculated as follows: Uld (detection) = 4 mg/l and Ulq (quantification) = 11 mg/l.

The detection and quantification limits of the Amaltheys analyzer are relatively low for "soluble protein" with regard to the other existing methods for proteins.

**B- MILK****B.1- Samples**

The tests were performed on raw, pasteurised and UHT milk samples. Raw milk consisted of tanker and farm milk. The pasteurised and UHT milk was bought in supermarkets and hypermarkets. Bronopol was added to the samples to give a final concentration of 0.02 %.

Three series of 15 samples were made up. Each series was prepared with a type of milk (raw, pasteurised or UHT) and a corresponding bulk milk (raw-pasteurised, pasteurised-UHT and UHT-pasteurised) to produce a range of concentrations.

**B.2- Procedure**

The repeatability of the analyzer was evaluated using all the milk samples for both parameters (PS and IF). The accuracy was evaluated using all the milk samples for the PS parameter. The quantitative analysis of each sample was carried out in consecutive duplicate and a control milk sample was analysed at the beginning and at the end to verify the stability of the instrument.

The following reference methods, ISO 17997 / IDF 29 for non-casein nitrogen (ANC), NF EN ISO 8968-5 / IDF 20-5 for non-protein nitrogen (ANP) and method according to Rowland<sup>(1)</sup> (non-casein nitrogen after ANC<sub>d</sub> denaturing) were used to evaluate the accuracy.

The reference values were calculated as follow: PS = (ANC – ANP) x 6.38 and proteose-peptone fraction (PP) = (ANC – ANC<sub>d</sub>) x 6.38.

**B.3- Results**

The results obtained are presented in the tables and figures below:

		<b>n</b>	<b>min</b>	<b>max</b>	<b>M</b>	<b>Sx</b>	<b>Sr</b>	<b>Sr (%)</b>	<b>r</b>
<b>RAW MILK</b>	<b>PS (g/l)</b>	15	4.51	5.37	5.00	0.26	0.10	2.07	0.29
	<b>IF</b>	15	0.00	8.33	2.70	2.43	0.17	6.24	0.47
<b>PASTEURISED MILK</b>	<b>PS (g/l)</b>	15	1.46	5.25	3.95	1.27	0.11	2.81	0.31
	<b>IF</b>	15	3.36	27.84	9.68	8.09	0.34	3.56	0.96
<b>UHT MILK</b>	<b>PS (g/l)</b>	15	0.78	2.25	1.28	0.40	0.09	6.76	0.24
	<b>IF</b>	15	19.41	75.49	41.31	17.23	2.26	5.46	6.25
<b>OVERALL</b>	<b>PS (g/l)</b>	45	0.78	5.37	3.41	1.76	0.10	2.95	0.28
	<b>IF</b>	45	0.00	75.49	17.90	20.14	1.32	7.38	3.66

**Table 1: AMALTHEYS repeatability criteria for PS and IF in milk samples**

*n*: number of results; *min* and *max*: minimum and maximum values; *M* and *Sx*: mean and standard deviation of the results; *Sr* and *Sr%*: absolute and relative standard deviation of repeatability; *r*: maximum deviation of repeatability in 95 % of cases.

		<b>n</b>	<b>min</b>	<b>max</b>	<b>Y</b>	<b>Sy</b>	<b>d</b>	<b>Sd</b>	<b>Sy,x</b>	<b>Sy,x%</b>	<b>b</b>	<b>a</b>
<b>RAW MILK</b>	<b>PS (g/l)</b>	15	4.87	6.12	5.67	0.38	-0.67	0.15	0.099	1.99	1.427	-1.46
<b>PASTEURISED MILK</b>	<b>PS (g/l)</b>	15	1.77	5.40	4.12	1.21	-0.17	0.12	0.104	2.65	0.948	0.37
<b>UHT MILK</b>	<b>PS (g/l)</b>	15	0.99	2.08	1.54	0.37	-0.26	0.15	0.140	10.96	0.858	0.44
<b>OVERALL</b>	<b>PS (g/l)</b>	45	0.99	6.12	3.78	1.88	-0.37	0.26	0.241	7.08	1.059	0.17

**Table 2: AMALTHEYS accuracy criteria for PS in milk samples**

*n*, *min*, *max*: number of results, minimum and maximum values; *Y*, *X*: mean results using the reference and instrumental methods; *Sy*: standard deviation of the results from the reference method; *d*, *Sd*: mean and standard deviation of deviations; *Sy,x* and *Sy,x%*: absolute and relative residual standard deviation; *b*, *a*: slope and intercept of the linear regression

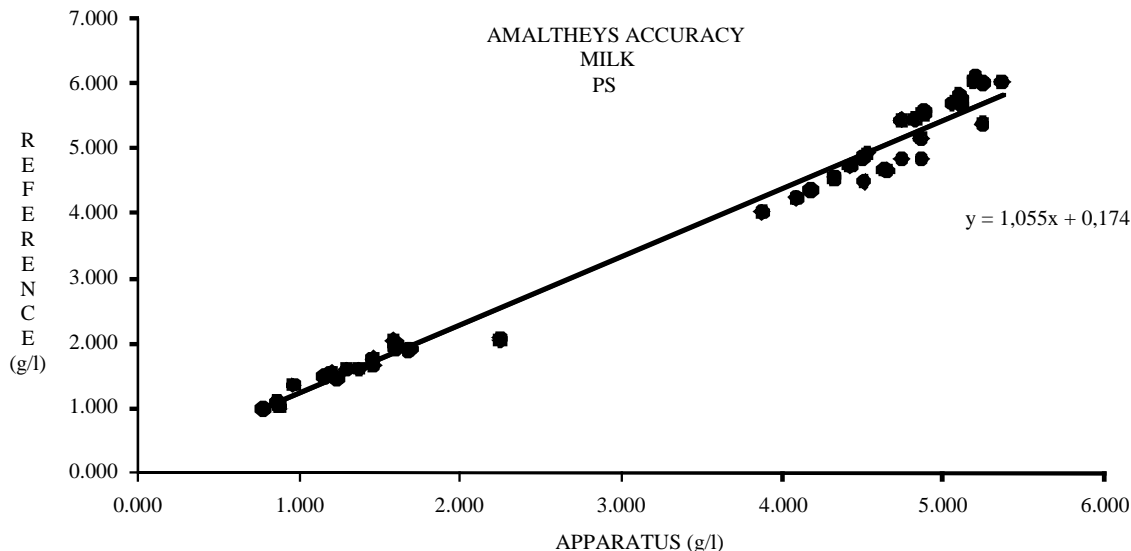


Figure 1: Relationship between the AMALTHEYS and reference results for PS in milk samples

For PS, it can be noted a regression slope of 1.055, significantly different from 1.00 at the 5 % threshold, and an intercept of +0.174 g/l (not significant at the 5 % threshold). The residual standard deviation of regression is 0.214 g/l. The causes of the deviations between the two methods were examined (-0.17 to -0.67 g/l). It was found that one of the major "soluble protein" fractions, the proteose peptones (from the proteolysis of  $\beta$ -casein by plasmin, present in quantities of about 1 g/l in raw milk), do not contain a tryptophan residue and consequently are not measured by the Amaltheys instrument.

An additional examination of the data was then performed to compare the results obtained with the Amaltheys instrument calibrated with the ANC-ANP-PP fraction (with a coefficient, calculated on the basis of the control sample composition, being applied directly to the results obtained for the ANC-ANP calibration) and the soluble protein content obtained using the Kjeldahl method minus the proteose peptone concentration (i.e. ANC-ANP-PP).

The results are summarised in the table and figures below:

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x%	b	a
<b>PS-PP (g/l)</b>	45	0.99	6.12	3.78	1.88	0.36	0.23	0.142	5.61	1.139	-0.71

Table 3: AMALTHEYS accuracy criteria for PS-PP and (PS-PP +  $\alpha$ -LACTA) in milk samples

*n, min, max: number of results, minimum and maximum value; Y,X: mean results using the reference and instrumental methods; Sy: standard deviation of the results from the reference method; d, Sd: mean and standard deviation of deviations; Sy,x and Sy,x%: absolute and relative residual standard deviation; b, a: slope and intercept of the linear regression*

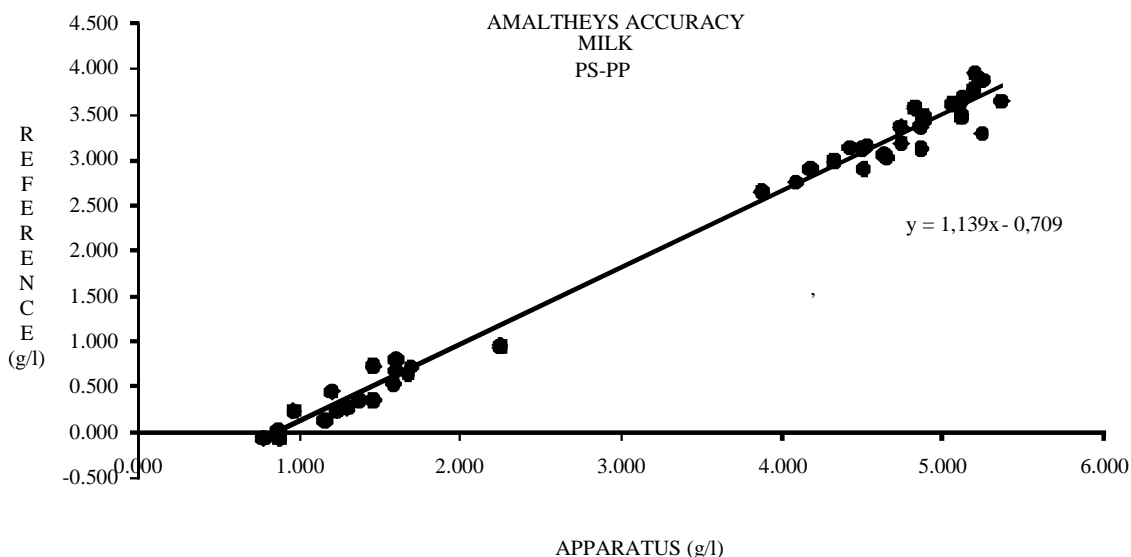


Figure 2: Relationship between the AMALTHEYS and reference methods for PS-PP in milk samples

For PS-PP the regression slope and the intercept are 1.139 and -0.709 respectively, significantly different from 1.00 and 0.00 at the 5 % threshold. The residual standard deviation of this regression is 0.142 g/l.

**B.4- Conclusion**

Concerning soluble proteins, the standard deviations of repeatability obtained are similar for the 3 types of milk at a level of about 0.10 g/l. The values obtained are in accordance with the recommendations of the ISO 17997/IDF 29: 2004 standard for the determination of non casein nitrogen in milk ( $S_r = 0.092$  g/l).

Concerning the Fast index, the standard deviations of repeatability obtained vary according to the levels observed in the samples. The overall relative standard deviation (for all the samples) is 7.4 %.

For PS, the residual standard deviation of linear regression (calculated for all the types of milk) is 0.241 g/l, hence an estimation accuracy for this method and this parameter of  $\pm 0.482$  g/l. For PS-PP, the residual standard deviation of regression is 0.142 g/l (estimation accuracy of  $\pm 0.28$  g/l) but there is a significant slope adjustment defect (about 14 %) and a mean bias of 0.36 g/l for the products and range studied.

**C- CONCENTRATED WHEY**

**C.1- Samples**

The tests were performed on concentrated whey samples. Three whey samples (fabrication of pressed cooked cheese, pressed cheese and soft cheese) were collected and then concentrated by ultrafiltration on a 10KD membrane. Bronopol was added to the samples to give a final concentration of 0.02 %.

A set of 12 samples was constituted by mixing the different concentrated whey samples to produce a range of concentrations.

**C.2- Procedure**

The repeatability and the accuracy of the instrument were evaluated for PS using all the concentrated whey samples. The quantitative analyses of each sample were carried out in consecutive duplicate and a control milk sample was analysed at the beginning and at the end to verify the stability of the instrument.

To evaluate the accuracy, the same reference methods as for milk were used with suitable test samples (cf. B.2).

**C.3- Results**

The results obtained are summarised in the tables and figures below:

	<b>n</b>	<b>min</b>	<b>max</b>	<b>M</b>	<b>Sx</b>	<b>Sr</b>	<b>Sr (%)</b>	<b>r</b>
<b>PS (g/l)</b>	12	32.11	50.67	41.52	6.50	0.99	2.38	2.74

**Table 4:** AMALTHEYS repeatability criteria for PS in concentrated whey samples

*n: number of results; min and max: minimum and maximum values; M and Sx: mean and standard deviation of the results; Sr and Sr%: absolute and relative standard deviation of repeatability; r: maximum deviation of repeatability in 95 % of cases.*

	<b>n</b>	<b>min</b>	<b>max</b>	<b>Y</b>	<b>Sy</b>	<b>d</b>	<b>Sd</b>	<b>Sy,x</b>	<b>Sy,x %</b>	<b>b</b>	<b>a</b>
<b>PS (g/l)</b>	12	31.12	51.42	41.27	7.02	0.25	2.88	3.015	7.26	0.986	0.35

**Table 5:** AMALTHEYS accuracy criteria for PS in concentrated whey samples

*n, min, max: number of results, minimum and maximum value; Y,X: mean results using the reference and instrumental methods; Sy: standard deviation of the results from the reference method; d, Sd: mean and standard deviation of deviations; Sy,x and Sy,x%: absolute and relative residual standard deviation; b, a: slope and intercept of the linear regression*

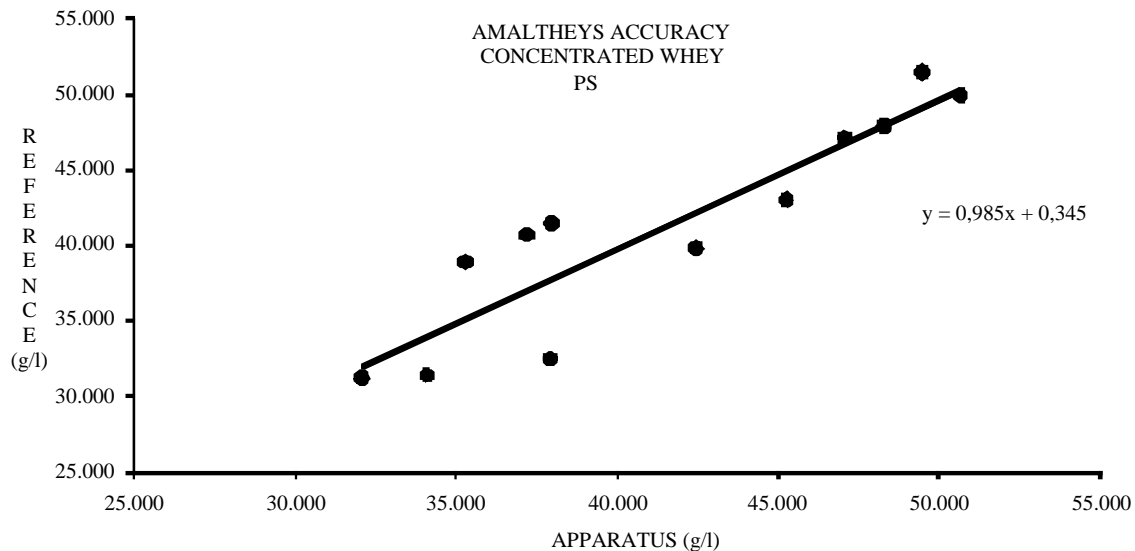


Figure 3: Relationship between AMALTHEYS and the reference results for PS in concentrated whey samples

For PS, a linear regression slope of 0.985 and an intercept of +0.345 were observed, not significantly different from 1.00 and 0.00 respectively (at the 5 % threshold). The residual standard deviation is equal to 3.015 g/l.

An additional examination of the data was performed using the same approach as for milk. The results are presented below:

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x %	b	a
PS-PP (g/l)	12	25.15	39.08	32.21	5.08	-1.45	0.75	0.759	2.47	1.043	0.12

Table 6: AMALTHEYS accuracy criteria for PS-PP in concentrated whey samples

*n, min, max: number of results, minimum and maximum value; Y,X: mean results using the reference and instrumental methods; Sy: standard deviation of the results from the reference method; d, Sd: mean and standard deviation of deviations; Sy,x and Sy,x%: absolute and relative residual standard deviation; b, a: slope and intercept of the linear regression.*

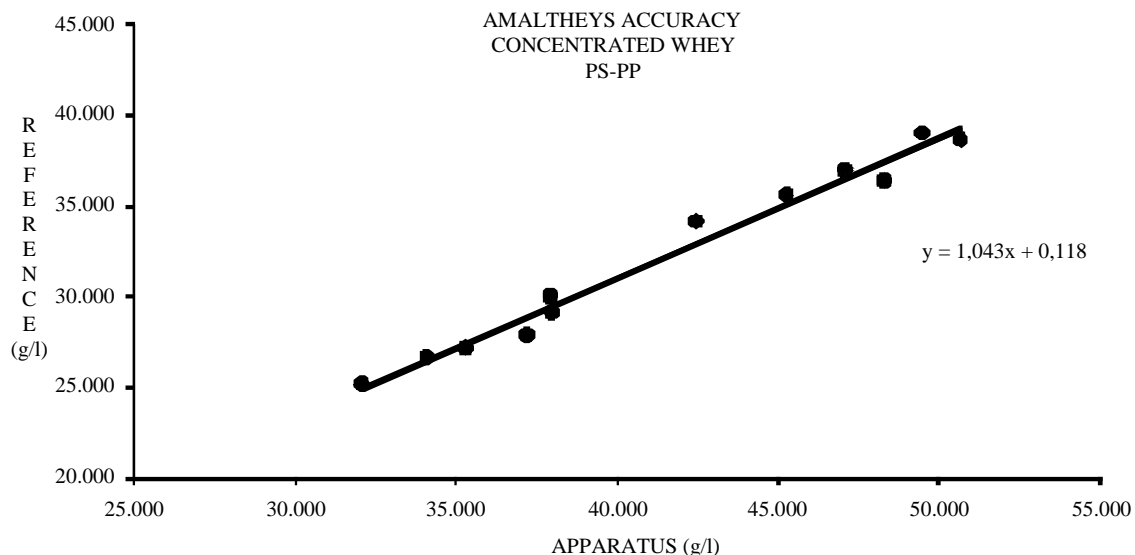


Figure 4: Relationship between AMALTHEYS and reference results for PS-PP in concentrated whey samples

For PS-PP, a regression slope and an intercept 1.043 and –0.118 respectively were observed. The residual standard deviation is 0.759 g/l.

**C.3- Conclusion**

For PS, the standard deviation of repeatability obtained is 0.99 g/l, which corresponds to a relative value of 2.38 %.

The determination of PS-PP using the right calibration significantly improves the estimation accuracy of the instrument (± 6.030 g/l to ± 1.518 g/l) for concentrated whey.

**GENERAL CONCLUSION**

Firstly, the good repeatability of the Amaltheys instrument can be noted for the determination of soluble proteins and other fractions measured during the additional examination of the data.

Concerning the accuracy of the instrument for these criteria, it can be concluded that:

A correlation (for milk and whey) between the Amaltheys and reference methods for both PS and PS-PP (with different estimation accuracies) was observed. Indeed, the "proteose-peptone" fraction of milk and liquid dairy products cannot be measured using the Amaltheys method due to the absence of a tryptophan residue on the corresponding peptides. As a result, the estimation accuracy (PE) of this method could be significantly improved by examining the soluble protein fraction minus the "proteose-peptone" fraction ( $PS-PP = ANC-ANC_d$ ) instead of the soluble protein fraction alone ( $PS = ANC-ANP$ ), and this for the milk (PE of  $\pm 0.48$  to  $\pm 0.28$  g/l) and concentrated whey samples (PE of  $\pm 6.03$  to  $\pm 1.52$  g/l).

For milk samples, the slope and the intercept of Amaltheys vs. the reference method are significantly different from 1.00 and 0.00 respectively for both PS ( $b = 1.059$  and  $a = +0.017$ ) and PS-PP ( $b = 1.1.39$  and  $a = -0.71$ ), indicating a deviation between the two methods (mean deviation of  $-0.37$  and  $+0.36$  g/l respectively. After consideration, it was found that the "proteose peptone" fraction, determined according to Rowland, contains a portion of non-denatured  $\alpha$ -lactalbumin (on the basis of the Dannenberg and Kessler<sup>(2)</sup> tables), for which a signal is obtained with the Amaltheys method. This was also confirmed by the qualitative HPLC analysis of the PP filtrate (using Spectralys). Within the context, if the totality of this residual fluorescence was assigned to non-denatured  $\alpha$ -lactalbumin, the bias of the slope could thus be significantly reduced by integrating this factor. Nevertheless, the intercept would still be significantly different from 0.00, corresponding to the initial PS-PP regression. This statement could be confirmed by specific analyses of  $\alpha$ -lactalbumin in the standard and milk samples.

For concentrated whey, the deviations observed were lower (in relative %) than for milk.

To conclude, investigations (and confirmations) must then be carried out to discover a technical and scientific explanation concerning the accuracy deviations observed during this evaluation for the different types of samples tested. Many possibilities could then be studied (precipitation reagent, filtration process, prediction model of the sensor, or milk composition parameter) for a good understanding of the measurement and possible adjustment.

Finally, the repeatability obtained for the Fast index for drinking milk (pasteurised and UHT) was good (Sr % of 3.5 and 5.5 %, respectively). However, a relevant descriptor must be defined for an accuracy study. Indeed, the first tests concerning furosine in UHT milk were not suitable because the milk furosine content decreased during storage, and these tests were carried out on samples for which the duration of storage varied after production.

**Bibliography :**

- <sup>(1)</sup> ROWLAND S.J. The determination of the nitrogen distribution in milk. Journal of Dairy Research, 1938, V. 9, p. 42-46.
- <sup>(2)</sup> – DANNENBERG F. et KESSLER H.G. Application of reaction kinetics to the denaturation of whey proteins in heated milk. Milchwissenschaft, 1988, 43, 3-7
- <sup>(3)</sup> - CORZO N., LOPEZ-FANDINO R., DELGADO T., RAMOS M., OLANO A. Changes in furosine and proteins of UHT treated milks stored at high ambient temperatures. Lebensmittel-Untersuchung und-Forschung, 1994, 198, 302-306

*According to the Amaltheys® analyzer evaluation report (part 1) - X. QUERVEL and Ph. TROSSAT – October 2012*



## STANDARDS - REGULATIONS

### STANDARDS, DRAFT STANDARDS

Classification in alphabetical order by theme

#### ISO standards under development

##### **MICROBIOLOGY OF FOOD, ANIMAL FEED AND WATER**

ISO/DIS 11133 January 2013	MICROBIOLOGY OF FOOD, ANIMAL FEED AND WATER Preparation, production, storage and performance testing of culture media
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##### **MILK AND MILK PRODUCTS**

ISO/DIS 11816-1 February 2013	MILK AND MILK PRODUCTS Determination of alkaline phosphatase activity – Part 1: Fluorimetric method for milk and milk-based drinks
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#### ISO published standards

##### **MILK AND MILK PRODUCTS**

ISO/TS 22113 (IDF 204) July 2012	MILK AND MILK PRODUCTS Determination of the titrable acidity of milk fat
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##### **QUALITY MANAGEMENT**

ISO 10004 September 2012	QUALITY MANAGEMENT Customer satisfaction – Guidelines for monitoring and measuring
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##### **SENSORY ANALYSIS**

ISO 3972:2011:Cor1 August 2012	SENSORY ANALYSIS Methodology – Method of investigating sensitivity of taste – Corrigendum 1
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### NEW EU REGULATIONS

Classification is established in alphabetical order of the first keyword

#### **FLAVOURINGS**

**O.J.E.U. L 267, 2<sup>nd</sup> October 2012** – Commission Implementing Regulation (EU) No 872/2012 of 1 October 2012 adopting the list of flavouring substances provided for by Regulation (EC) No 2232/86 of the European Parliament and of the Council, introducing it in Annex I to Regulation (EC) No 1334/2008 of the European Parliament and of the Council and repealing Commission Regulation (EC) No 1565/2000 and Commission Decision 1999/217/EC  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:267:0001:0161:EN:PDF>

**O.J.E.U. L 267, 2<sup>nd</sup> October 2012** – Commission Regulation (EU) No 873/2012 of 1 October 2012 on transitional measures concerning the Union list of flavourings and source materials set out in Annex I to Regulation (EC) No 1334/2008 of the European Parliament and of the Council  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:267:0162:0164:EN:PDF>

#### **FOOD ADDITIVES**

**O.J.E.U. L 310, 9<sup>th</sup> November 2012** – Commission Regulation (EU) No 1049/2012 of 8 November 2012 amending Annex II to Regulation (EC) No 1333/2008 of the European Parliament and of the Council as regards the use of polyglycitol syrup in several food categories  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:310:0041:0044:EN:PDF>

**O.J.E.U. L 310, 9<sup>th</sup> November 2012** – Commission Regulation (EU) No 1050/2012 of 8 November 2012 amending Regulation (EU) No 231/2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council as regards Polyglycitol syrup  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:310:0045:0046:EN:PDF>



**HEALTH CLAIM / NUTRITION CLAIM**

**O.J.E.U. L 310, 9<sup>th</sup> November 2012** – Commission Regulation (EU) No 1047/2012 of 8 November 2012 amending Regulation (EC) No 1924/2006 with regard to the list of nutrition claims

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:310:0036:0037:EN:PDF>

**O.J.E.U. L 310, 9<sup>th</sup> November 2012** – Commission Regulation (EU) No 1048/2012 of 8 November 2012 on the authorisation of a health claim made on foods and referring to the reduction of disease risk

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:310:0038:0040:EN:PDF>

**P.D.O. / P.G.I.**

**O.J.E.U. L 182, 13<sup>th</sup> July 2012** – Commission Implementing Regulation (EU) No 629/2012 of 6 July 2012 entering a name in the register of protected designations of origin and protected geographical indications [Nostrano Valtrompia (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:182:0012:0013:EN:PDF>

**O.J.E.U. L 198, 25<sup>th</sup> July 2012** – Commission Implementing Regulation (EU) No 679/2012 of 24 July 2012 entering a name in the register of protected designations of origin and protected geographical indications [Squacquerone di Romagna (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:198:0006:0007:EN:PDF>

**O.J.E.U. C 239, 9<sup>th</sup> August 2012** – Publication of an application pursuant to Article 6(2) of Council Regulation (EC) No 510/2006 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs [Orkney Scottish Island Cheddar (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2012:239:0005:0008:EN:PDF>

**O.J.E.U. L 213, 10<sup>th</sup> August 2012** – Commission Implementing Regulation (EU) No 728/2012 of 7 August 2012 entering a name in the register of protected designations of origin and protected geographical indications [Ser korycinski swojski (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:213:0007:0008:EN:PDF>

**O.J.E.U. L 223, 21<sup>st</sup> August 2012** – Commission Implementing Regulation (EU) No 753/2012 of 14 August 2012 entering a name in the register of protected designations of origin and protected geographical indications [Bocski sir (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:223:0002:0003:EN:PDF>

**O.J.E.U. L 227, 23<sup>rd</sup> August 2012** – Commission Implementing Regulation (EU) No 762/2012 of 24 July 2012 approving a non-minor amendment to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Langres (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:227:0001:0002:EN:PDF>

**O.J.E.U. C 288, 25<sup>th</sup> September 2012** – Publication of an application pursuant to Article 6(2) of Council Regulation (EC) No 510/2006 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs [Holsteiner Tilsiter (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2012:288:0009:0012:EN:PDF>

**O.J.E.U. C 294, 29<sup>th</sup> September 2012** – Publication of an amendment application pursuant to Article 6(2) of Council Regulation (EC) No 510/2006 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs [Roncal (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2012:294:0008:0013:EN:PDF>

**O.J.E.U. C 302, 6<sup>th</sup> October 2012** – Publication of an amendment application pursuant to Article 6(2) of Council Regulation (EC) No 510/2006 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs [Mont d'Or / Vacherin du Haut-Doubs (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2012:302:0016:0023:EN:PDF>

**O.J.E.U. C 322, 24<sup>th</sup> October 2012** – Publication of an amendment application pursuant to Article 6(2) of Council Regulation (EC) No 510/2006 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs [Casatella Trevigiana (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2012:322:0004:0008:EN:PDF>

**O.J.E.U. L 313, 13<sup>th</sup> November 2012** – Commission Implementing Regulation (EU) No 1053/2012 of 7 November 2012 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Provolone Valpadana (PDO) (cheese)]  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:313:0001:0002:EN:PDF>

### **PESTICIDES**

**O.J.E.U. L 235, 1<sup>st</sup> September 2012** – Commission Implementing Regulation (EU) No 788/2012 of 31 August 2012 concerning a coordinated multiannual control programme of the Union for 2013, 2014 and 2015 to ensure compliance with maximum residue levels of pesticides and to assess the consumer exposure to pesticide residues in and on food of plant and animal origin  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:235:0008:0027:EN:PDF>

**O.J.E.U. L 266, 2<sup>nd</sup> October 2012** – Commission Regulation (EU) No 897/2012 of 1 October 2012 amending Annexes II and III to Regulation (EC) No 396/0005 of the European Parliament and of the Council as regards maximum residue levels for acibenzolar-S-methyl, amisulbrom, cyazofamid, diflufenican, dimoxystrobin, methoxyfenozide and nicotine in or on certain products  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:266:0001:0031:EN:PDF>

**O.J.E.U. L 273, 6<sup>th</sup> October 2012** – Commission Regulation (EU) No 899/2012 of 21 September 2012 amending Annexes II and III to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for acephate, alachlor, anilazine, azocyclotin, benfuracarb, butylate, captafol, carbaryl, carbofuran, carbosulfan, chlorfenapyr, chlorthal-dimethyl, chlorthiamid, cyhexatin, diazinon, dichlobenil, dicofol, dimethipin, diniconazole, disulfoton, fenitrothion, flufenzin, furathiocarb, hexaconazole, lactofen, mepronil, methamidophos, methoprene, monocrotophos, monuron, oxycarboxin, oxydemeton-methyl, parathion-methyl, phorate, phosalone, procymidone, profenofos, propachlor, quinclorac, quintozone, tolylfluanid, trichlorfon, tridemorph and trifluralin in or on certain products and amending that Regulation by establishing Annex V listing default values  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:273:0001:0075:EN:PDF>

**AFNOR VALIDATIONS**

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

Commercial name	Date	Certificate	Description
<b>NEW VALIDATION</b>			
<b>DELVOTEST® BLF</b>	Validation date: 5 July 2012 <b>End of validity: 5 July 2016</b>	<b>DSM-28/03-07/12</b>	<b>Detection of antibiotics (β-lactams)</b> Raw cow milk
<b>RENEWALS OF VALIDATION</b>			
<b>BAX® LISTERIA MONOCYTOGENES 24E (automatised)</b>	Validation date: 1 July 2008 Extension: 26 Jan 2009 and 12 May 2011 Renewal: 6 July 2012 <b>End of validity: 1 July 2016</b>	<b>QUA-18/05-07/08</b>	<b>Detection of <i>Listeria monocytogenes</i></b> All human food products and environmental samples
<b>BAX® GENUS LISTERIA 24E (automatised)</b>	Validation date: 1 July 2008 Extension: 26 Jan 2009 and 12 May 2011 Renewal: 6 July 2012 <b>End of validity: 1 July 2016</b>	<b>QUA-18/06-07/08</b>	<b>Detection of <i>Listeria</i> spp.</b> All human food products and environmental samples
<b>ALOA ONE DAY</b>	Validation date: 27 Sep 2000 Extension: 10 Mar 2006, 15 Sep 2006, 1 Apr 2010 and 6 Oct 2011 Renewal: 7 Apr 2005, 30 June 2008 and 6 July 2012 <b>End of validity: 27 Sep 2016</b>	<b>AES-10/03-09/00</b>	<b>Detection of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp.</b> All human food products and environmental samples
<b>RAYAL SALMONELLA OPTIMA</b>	Validation date: 30 June 2008 Renewal: 5 July 2012 <b>End of validity: 30 June 2016</b>	<b>RAY-32/02-06/08</b>	<b>Detection of <i>Salmonella</i></b> All human food products and environmental samples (except breeding samples)
<b>EXTENSION OF VALIDATION</b>			
<b>VIDAS UP SALMONELLA</b>	Validation date: 6 Oct 2011 Extension: 2 Feb 2012 and 6 July 2012 <b>End of validity: 6 Oct 2015</b>	<b>BIO-12/32-10/11</b>	<b>Detection of <i>Salmonella</i></b> All human food products, animal feeding stuffs and production environment samples (including animal faeces and environmental samples from the primary production stage) <i>The scope of the method is extended to the detection of <i>Salmonella</i> spp. in animal faeces and in environmental samples from the primary production stage.</i>

## AFNOR VALIDATIONS

<p><b>RAPID' SAMONELLA</b></p>	<p>Validation date: 9 Dec 2005          Renewal: 24 Sep 2009          Extension: 3 July 2009,          21 May 2010, 3 Feb 2011 and          4 Oct 2012  <b>End of validity: 9 Dec 2013</b></p>	<p><b>BRD-07/11-12/05</b></p>	<p><b>Detection of <i>Salmonella</i></b>          All human food products and animal food products, and production environment samples (except primary production stage environment)  <i>The choice of the Latex tests for the confirmation step is extended.</i></p>
<p><b>ALOA COUNT™</b></p>	<p>Validation date: 15 Sep 2006          Renewal: 2 July 2010          Extension: 4 Oct 2012  <b>End of validity: 15 Sep 2014</b></p>	<p><b>AES-10/05-09/06</b></p>	<p><b>Enumeration of <i>Listeria monocytogenes</i></b>          All human and animal food products  <i>The protocol of the method is modified and its scope is extended to the enumeration of <i>Listeria</i> spp.</i></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>

## **BOOKSHOP: LATEST PUBLICATIONS**

The classification in alphabetic order of the first keyword allows you to consult the references according to your interests. The web site allows you to know more, or to order the book.

### **MILK**

PARK Y.W., HAENLEIN G.F.W. – **Handbook of milk and non-bovine mammals** – Wiley-Blackwell Editions – September 2012 – ISBN: 978-0-470-29378-2 – E-book

<http://eu.wiley.com>



This book covers the most important aspects of milk production including trends and methods of raw milk production in different regions, compositional, nutritional, therapeutic, physico-chemical, and microbiological characteristics of the milks, processing technology and distribution and consumption of the manufactured products from minor species milks.

## **IN THE PRESS – ON THE WEB**

Classification in alphabetical order of keywords

### **CONTAMINANTS**

#### **Update of the monitoring of levels of dioxins and PCBs in food and feed**

<http://www.efsa.europa.eu/fr/efsajournal/pub/2832.htm>

► In 2010, EFSA received a mandate from the European Commission to collect, analyse all the available data on dioxins and PCBs in food and feed, and publish a report every two years analysing these data.

### **LISTERIA**

#### **Neogen unveils rapid *Listeria* detection test**

<http://www.foodproductiondaily.com/Quality-Safety/Neogen-unveils-rapid-Listeria-detection-test>

► Neogen Corporation has claimed it has developed the quickest method to detect *Listeria*.

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