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EVALUATION OF THE MPA™ INFRARED ANALYSER

The MPA™ is a near infrared TF spectrophotometer manufactured by Bruker Optik (Germany, Bruker Group Corporation) and commercialised in France by Bruker Optics. It is used for the determination of the principal components in milk and in liquid (retentate, serum, cream, milk-based drinks...) and solid (powder, cheese, butter, yoghurt...) dairy products.

The near infrared analyzer (MPA Multi Purpose Analyzer) from Bruker Optics (FT-NIR) can be customized and equipped with different sampling modules for optimal NIR measurement of different sample types:

1- Sample compartment for transmission measurements to analyze liquid samples in a with an InGaAs detector cooled thermo-electrically (range 12800 - 4000cm⁻¹)

2- Transmission module for solid and paste like samples with a Si detector at room temperature (range 15500 - 9000cm⁻¹)

3- Reflection module with integrating sphere for solid and paste like samples with a PbS detector (range 12800-3600cm⁻¹).

Fiber optic probes can also be installed.

The heart of the instrument is a Rocksolid® permanent alignment interferometer (Bruker Patent) with gold mirrors.

The apparatus is computer controlled with Opus software, which ensures the signal treatment and the PLS calibrations.



The tests:

The evaluation tests were performed in Actilait-Cecalait's physico-chemistry laboratory (reference and instrumental analyses) from July to October 2010. After satisfactory preliminary stability tests performed for fat (MG), dry matter (MS) and crude protein (MAT) on a set of 3 samples of whole, semi-skimmed and skimmed homogenised milk, the following criteria were evaluated:

- evaluation of repeatability and accuracy on homogenised milk: fat, dry matter and crude protein parameters;
- evaluation of repeatability and accuracy evaluation on whey: fat and crude protein parameters;
- evaluation of repeatability and accuracy evaluation on cheese: fat and dry matter parameters;
- complementary tests of repeatability and accuracy on cheese: crude protein parameter.

The calibrations used have been developed by the supplier thanks the Opus software

The calculation parameters are in relation with the ISO 21543/IDF 201 standard.

A- HOMOGENISED MILK

A.1- Samples

The tests were performed on 30 samples of homogenised milk. The samples were prepared by mixing whole, semi-skimmed and skimmed milk from shops. Bronopol was added to the samples to give a final concentration of 0.02%.

A.2- Procedure

The repeatability and the accuracy of the instrument for fat, dry matter and crude protein were evaluated using all the milk samples. The infrared quantitative analysis of each sample was carried out in consecutive duplicate using a "skimmed milk" and "whole milk" model carried out by the manufacturer, optimised by the integration of 9 specific samples.

The following reference methods were used:

- fat: Röse-Gottlieb method according to ISO 1211 and ISO 7208 (single tests);
- dry matter: drying method according to ISO 6731 (single tests);
- crude protein: Kjeldahl method according to ISO 8968 (single tests), conversion crude protein = total nitrogen x 6.38

A.3- Results

The table and figures below summarise the results obtained:

	n	min	max	M	Sx	Sr	Sr (%)	r
FAT (g/kg) skimmed milk	7	1.45	4.85	3.09	1.27	0.04	1.22	0.10
FAT (g/kg) whole milk	14	9.90	34.00	23.11	9.10	0.03	0.14	0.09
DRY MATTER (g/kg)	21	8.86	12.21	10.59	1.14	0.01	0.14	0.04
CRUDE PROTEIN (g/kg)	21	33.80	37.60	34.79	0.84	0.05	0.15	0.15

Table 1: MPA repeatability criteria for fat, dry matter and crude protein on homogenised milk

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

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x %	b	a
FAT (g/kg) skimmed milk	7	1.97	5.16	3.51	1.21	-0.42	0.08	0.054	1.75	0.952	0.57
FAT (g/kg) whole milk	13	13.98	32.97	23.82	8.25	0.31	0.40	0.175	0.73	0.958	0.70
DRY MATTER (g/100g)	20	9.33	12.21	10.66	1.10	0.02	0.04	0.041	0.38	0.996	0.02
CRUDE PROTEIN (g/kg)	20	33.99	35.24	34.63	0.46	0.02	0.17	0.132	0.38	0.806	6.69

Table 2: MPA accuracy criteria for fat, dry matter and crude protein on homogenised milk samples

n, *min*, *max*: number of results; minimum and maximum value; *Y*: 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 standard deviation; *b*, *a*: slope and intercept of the linear regression.

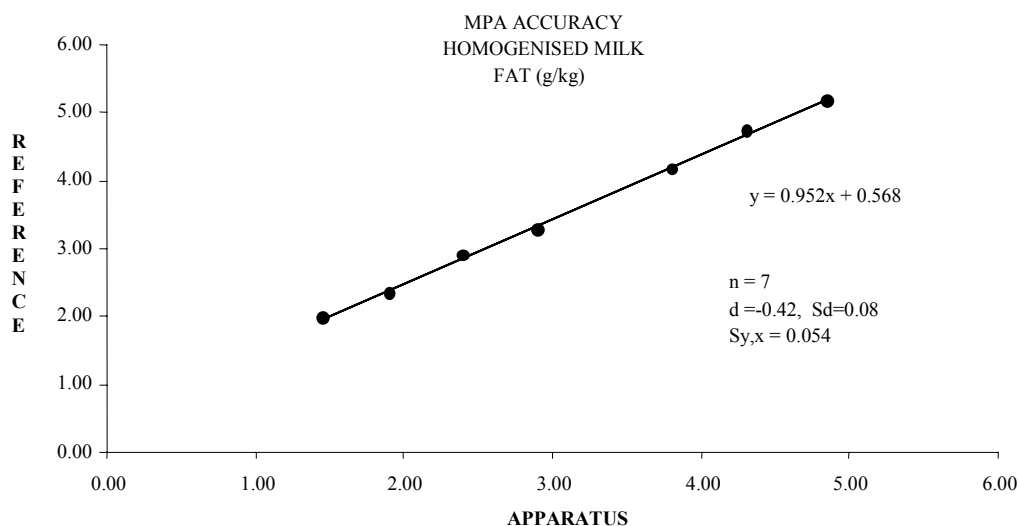


Figure 1: Relationship between the MPA and the reference results for fat on skimmed milk samples

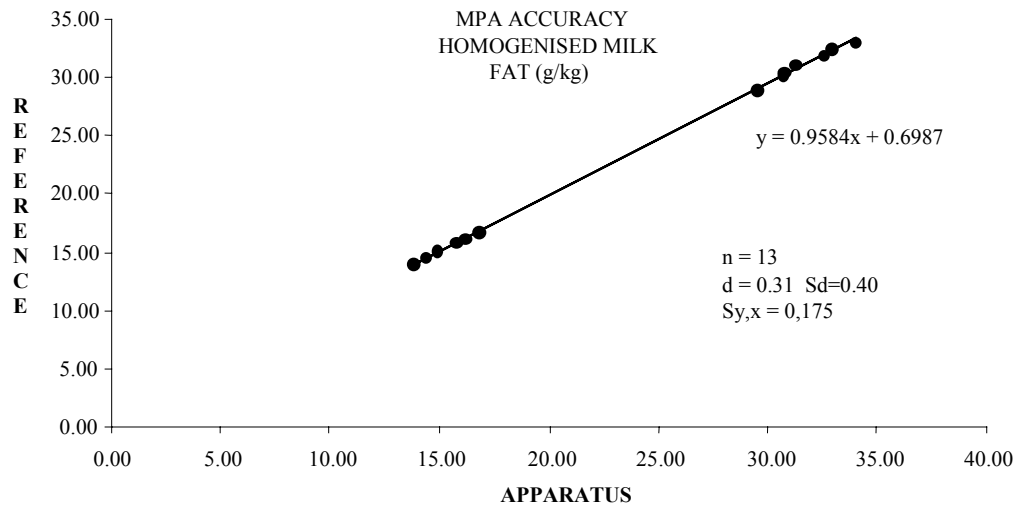


Figure 2: Relationship between the MPA and the reference results for fat on whole and semi-skimmed milk

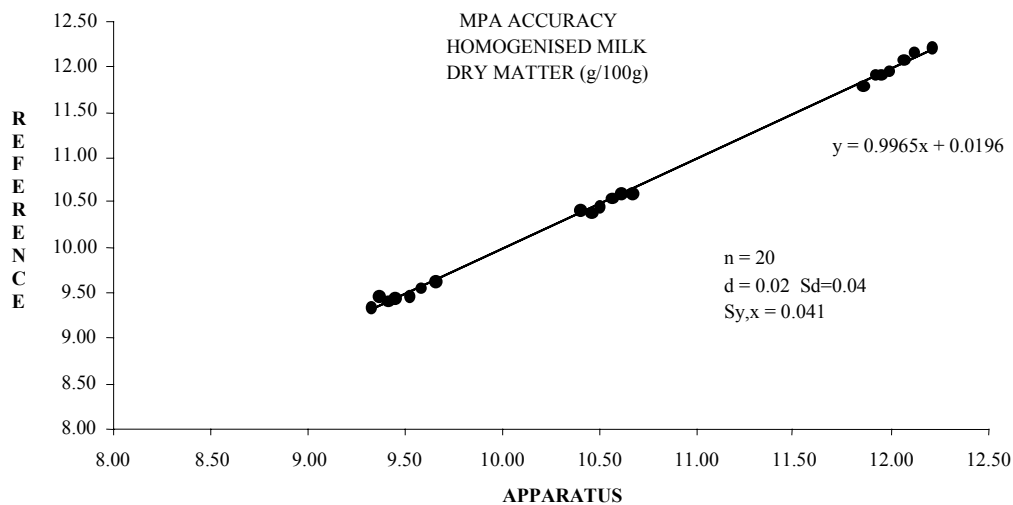


Figure 3: Relationship between the MPA and the reference results for dry matter on milk samples

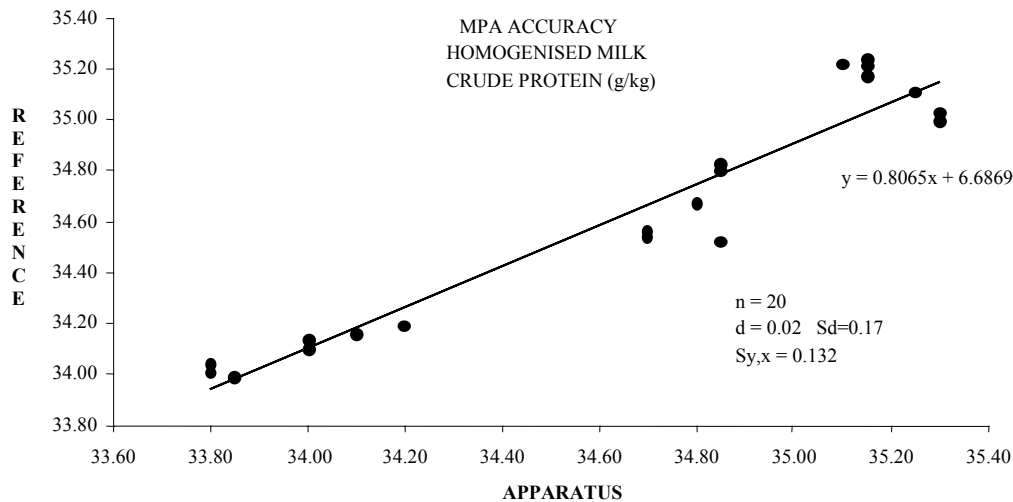


Figure 4: Relationship between the MPA and the reference results for crude protein on milk samples

It can be noted that:

- For fat, the relative residual standard deviations vary between 0.73% and 1.75% according to the rate of fat. For skimmed milk, the regression line is equal to 0.952 and is significantly different from 1 (P = 5%). For whole and semi-skimmed milk, the regression line is equal to 0.958 and is significantly different from 1 (P = 1%).
- For dry matter, the relative residual standard deviation is equal to 0.38 %. The regression line is equal to 0.996 and is not significantly differently from de 1 (P = 5%).
- -For crude protein, the relative residual standard deviation is equal to 0.38 %. The regression line is equal to 0.806 and is significantly different from 1 (P = 1%).

A.4- Conclusion

With no standard criteria, it can be noted that the relative standard deviations of repeatability vary between 0.14 and 1.22%. The values obtained are in compliance with the recommendations of ISO 9622/IDF 141 standard concerning the performances of the infrared analysers, which fixes a maximum limit of 0.14 g/l for non-homogenised whole milk. The residual standard deviations of regression observed enable the following relative accuracy of estimation (equal to $\pm 2.Sy,x$ at 5% risk):

- For fat: $\pm 3.5\%$ (skimmed milk) and $1,5\%$ (whole and semi-skimmed milk);
- For dry matter: $\pm 0,8\%$;
- For crude protein: $\pm 0,8\%$.

B- WHEY

B. 1- Samples

The tests were performed on 10 samples of whey. The samples were prepared by mixing filtrated wheys drainage of soft and hard cheese from a producing department. Bronopol was added to the samples to give a final concentration of 0.02%.

B.2- Procedure

The repeatability and the accuracy of the instrument for fat and crude protein were evaluated using all the samples. The infrared quantitative analysis of each samples was carried out in consecutive duplicate using the "whey" model carried out by the manufacturer, optimised by integration of 3 specific samples.

The following reference methods were used:

- Fat: Röse-Gottlieb method according to ISO 7208 (single tests);
- Crude protein: Kjeldahl method according to ISO 8968 (single tests.)

B.3- Results

The following tables and figures present the results obtained:

	n	min	max	M	Sx	Sr	Sr (%)	R
FAT (g/kg)	7	0.96	8.61	5.76	2.71	0.08	1.35	0.21
CRUDE PROTEIN (g/kg)	7	7.53	10.06	8.99	0.93	0.17	1.94	0.48

Table 3: MPA repeatability criteria for fat and crude protein on whey samples

n: number of results; min and max: minimum and maximum value; 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.

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x %	b	a
FAT (g/kg) skimmed milk	7	0.69	9.32	5.90	3.05	-0.14	0.38	0.198	3.43	1.124	-0.57
CRUDE PROTEIN (g/kg) whole milk	7	7.52	10.08	8.95	0.92	0.04	0.08	0.086	0.96	0.989	0.06

Table 4: MPA accuracy criteria for fat and crude protein on whey 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

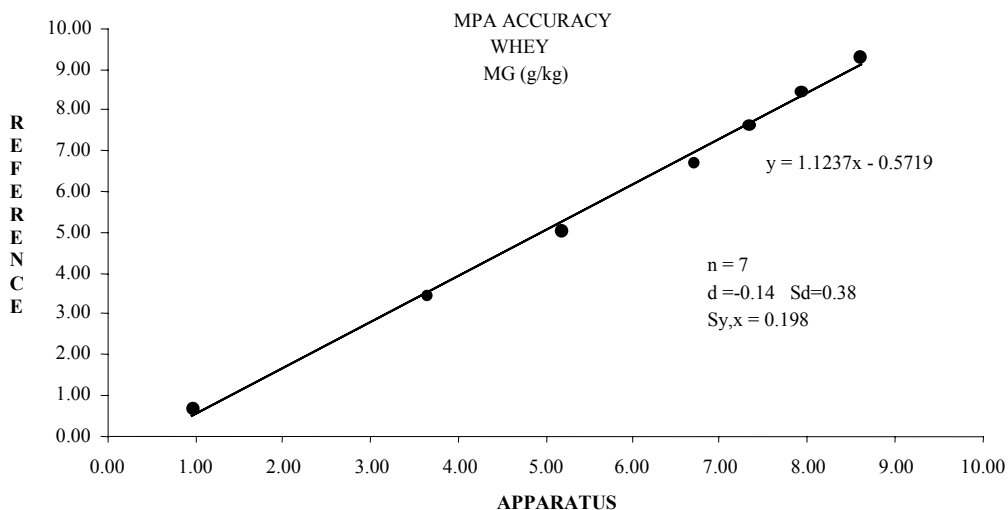


Figure 5: Relationship between the MPA and the reference results for fat on whey samples

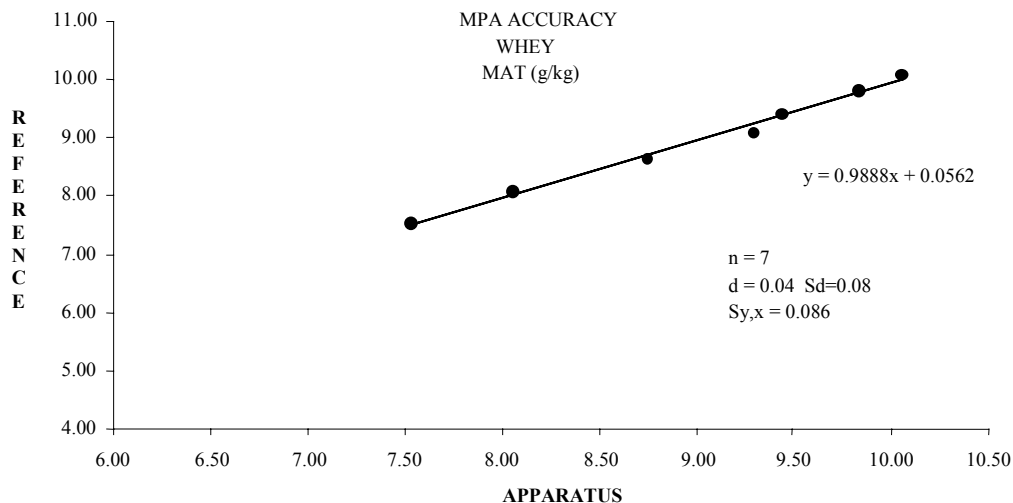


Figure 6: Relationship between the MPA and the reference results for crude protein on whey samples

It can be noted that:

- For fat, the relative residual standard deviation is equal to 3.43%. The slope is equal to 1.124 and is significantly different from 1 (P = 1%).
- For crude protein, the relative residual standard deviation is equal to 0,96 %. The slope is equal to 0.89 and is not significantly different from 1 (P = 5%).

B.4- Conclusion

With no standard criteria, it can be noted that the relative standard deviation of repeatability obtained is equal to 1.35% (fat) and 1.94% (crude protein). The residual standard deviation of regression observed enable the following relative accuracy of estimation (equal to 2.Sy,x at 5% risk):

- For fat: ± 6.9%;
- For crude protein: ±1.9%.

C- CHEESE

C.1- Samples

The tests were performed on 40 samples of cheese sold in supermarkets and hypermarkets: 20 samples of soft cheese and 20 samples of hard cheese. The samples were analysed after removing the rind and mixing or grinding according to the type of cheese.

C.2- Procedure

The repeatability and the accuracy of the instrument were evaluated for dry matter and fat using all the cheese samples. The infrared quantitative analyses were performed for each sample in consecutive duplicate using the "soft cheese" and a "hard cheese" models carried out by the manufacturer, optimised by the integration of 12 specific samples. The measures were realised in transmission through polystyrene petri dishes.

The following reference methods were used:

- Dry matter using drying method according to ISO 5534 (single tests);
- Fat using SBR extraction method according to ISO 1735 (single tests).

C.3- Results

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

	n	min	max	M	Sx	Sr	Sr (%)	R
Dry matter (g/100g) soft cheese	14	36.84	53.30	47.24	4.16	0.17	0.35	0.46
Dry matter (g/100g) hard cheese	14	52.73	69.63	61.61	5.16	0.13	0.21	0.36
Fat (g/100g) soft cheese	14	11.37	30.29	25.68	4.67	0.07	0.28	0.20
Fat (g/100g) hard cheese	14	26.45	34.81	30.67	2.75	0.11	0.35	0.30

Table 5: MPA repeatability criteria for fat and dry matter on cheese samples

n: number of results; min and max: minimum and maximum value; 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.

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x %	RMSEP	RMSEP %	b	a
DRY MATTER (g/100g) Soft cheese	14	35.96	53.61	46.73	4.38	0.51	0.59	0.579	1.23	0.761	1.63	1.046	-2.69
DRY MATTER (g/100g) Hard cheese	14	52.57	69.52	61.05	5.30	0.56	0.42	0.414	0.67	0.692	1.13	1.024	-2.02
FAT (g/100g) Soft cheese	13	11.05	29.51	25.05	4.78	0.58	0.28	0.282	1.10	0.644	2.57	0.983	-0.14
FAT (g/100g) Hard cheese	14	25.98	36.28	30.67	3.48	0.00	0.84	0.474	1.55	0.809	2.64	1.256	-7.86

Table 6: MPA accuracy criteria for dry matter and fat on cheese samples

n, min, max: number of results, minimum and maximum value; Y,X: mean results using the reference and the 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; RMSEP and RMSEP %: absolute and relative quadratic mean error of prediction.

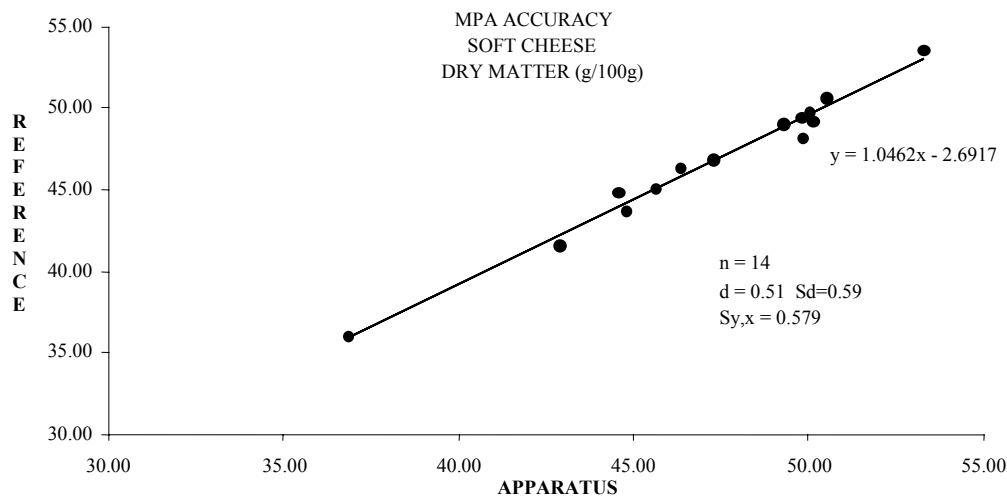


Figure 7: Relationship between the MPA and the reference results for dry matter on soft cheese samples

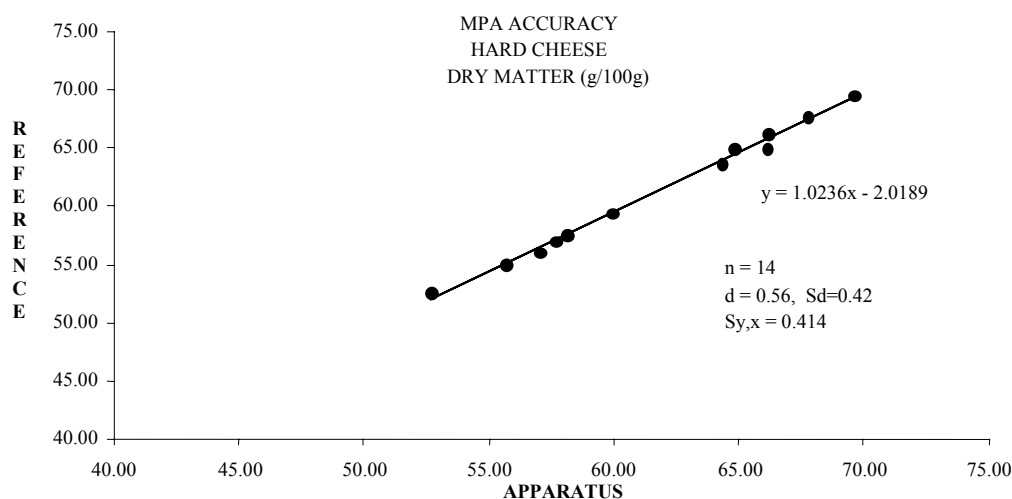


Figure 8: Relationship between the MPA and the reference results for dry matter on hard cheese samples

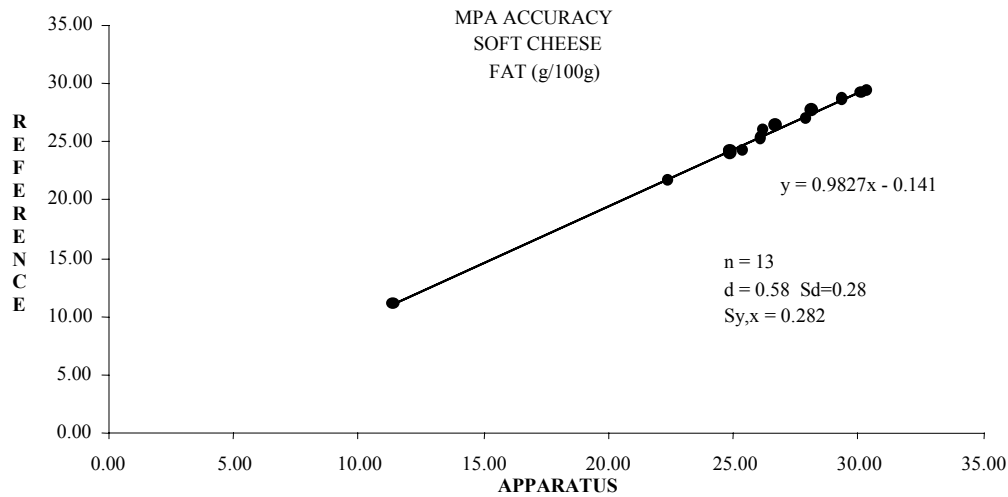


Figure 9: Relationship between the MPA and the reference results for fat on soft cheese samples

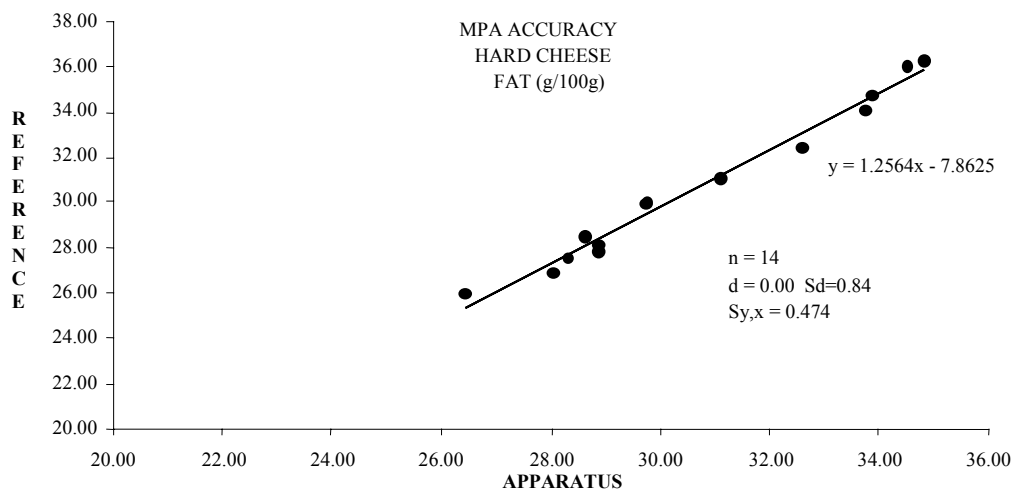


Figure 10: Relationship between the MPA and the reference results for fat on hard cheese samples

It can be noted that:

- For dry matter,
 - ❖ soft cheese:
 - the relative residual standard deviation is equal to 1.23%;
 - the slope is equal to 1.046, not significantly different from 1 (P = 5%);
 - the relative errors of prediction are equal to 1.63%.
 - ❖ hard cheese:
 - the relative residual standard deviation is equal to 0.67% ;
 - the slope is equal to 1.024, not significantly different from 1 (P = 5%) ;
 - the relative errors of prediction are equal to 2.57%.
- For fat,
 - ❖ soft cheese:
 - * the relative residual standard deviation is equal to 1.10% ;
 - * the slope is equal to 0.983, not significantly different from 1 (P = 5%) ;
 - * the relative errors of prediction are equal to 1.63%.
 - ❖ hard cheese:
 - * the relative residual standard deviation is equal to 1.55% ;
 - * the slope is equal to 1.256, the slope is equal to 1 (P = 1) ;
 - * the relative errors of prediction are equal to 2.64%.

C.4- Conclusion

With no standard criteria, it can be noted that the relative standard deviations of repeatability vary between 0.28 and 0.35% for the soft cheese samples, and between 0.21 and 0.35% for the hard cheese samples. The values observed enable the following relative accuracy of estimation (equal to 2.RMSEP % at 5% risk):

- For dry matter: +/- 2.7% for soft cheese and +/- 2.3% for hard cheese;
- For fat: +/- 3.1% for soft cheese and +/- 3.3% for hard cheese.

C.5- Complementary tests

Complementary tests were performed on the previous samples to predict the crude protein value. The repeatability and accuracy of the instrument were evaluated using all the samples. The quantitative analyses were performed for each sample in consecutive duplicate. The instrumental values are from "soft cheese" and "hard cheese" calibrations carried out by the manufacturer, built by integration of 12 specific samples. The measures were realised in transmission through polystyrene petri dishes. The reference method used was the Kjeldahl method according to ISO 8968 (single test) with conversion by the following calculation: Crude protein = Total nitrogen x 6,38.

The results are summarised in the tables and figures below:

	n	min	max	M	Sx	Sr	Sr (%)	r
Crude protein (g/100g) soft cheese	14	14.09	23.07	19.31	2.37	0.15	0.76	0.41
Crude protein (g/100g) hard cheese	14	20.35	30.26	25.76	2.87	0.29	1.13	0.80

Table 7: MPA repeatability criteria for crude protein on cheese samples

n: number of results; min and max: minimum and maximum value; 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.

	n	min	max	Y	Sy	d	Sd	Sy,x	Sy,x %	RMSEP	RMSEP %	b	a
Crude protein (g/100g) Soft cheese	14	13.61	23.44	19.19	2.61	0.12	0.75	0.767	3.97	0.730	3.81	1.054	-1.16
Crude protein (g/100g) Hard cheese	12	21.26	30.25	25.76	2.57	-0.07	0.73	0.622	2.42	0.707	2.74	0.853	3.86

Table 8: MPA accuracy criteria for crude protein on cheese 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; RMSEP and RMSEP %: absolute and relative quadratic mean error of prediction.

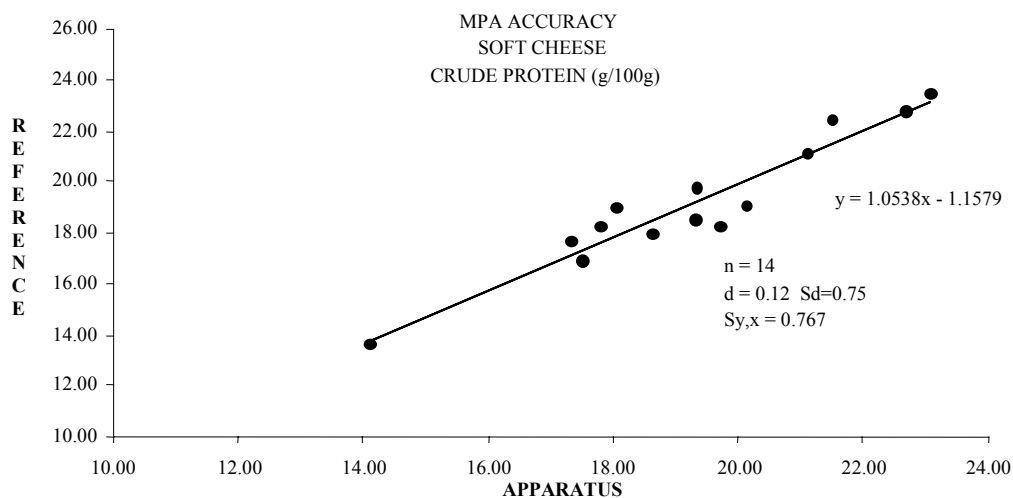


Figure 11: Relationship between the MPA and the reference results for crude protein on soft cheese samples

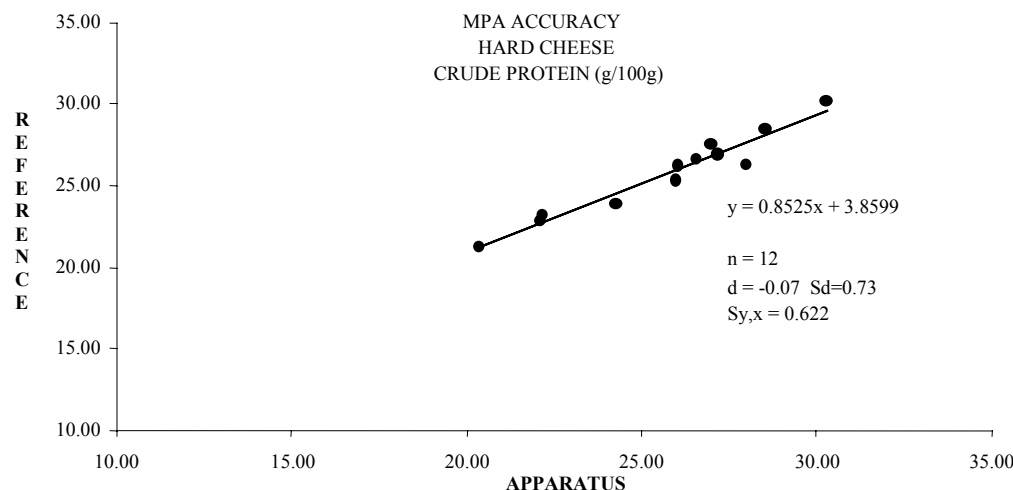


Figure 12: Relationship between the MPA and the reference results for crude protein on hard cheese samples

ARTICLE

It can be noted that:

- - For soft cheese: - the relative standard deviation of repeatability obtained is equal to 0.76%;
- the relative residual standard deviation of regression is equal to 3.97%;
- the slope is equal to 1.053;
- the relative errors of prediction are equal to 3.81%.
- - For hard cheese: - the relative standard deviation of repeatability obtained is equal to 1.13%;
- the relative residual standard deviation of regression is equal to 2.42%;
- the slope is equal to 0.852;
- the relative errors of prediction are equal to 2.74%.

As no standard criteria exists, these values from a calibration built with some samples are perfectible. However they enable the setting up of a satisfactory constructor calibration..

CONCLUSION

The MPA repeatability performances on the liquid products tested (homogenised milk and whey) are in accordance with the recommendations of the ISO 9622 standard dedicated to the mid infrared analysers (for fat and crude protein on raw milk). Concerning the accuracy, the performances of the instrument vary according to the matrixes and the parameters. They must be studied according to the analytical objectives wished.

In general, for the evaluation on cheese, with no standard criteria ,the results cannot be precisely interpreted. However, as the evaluations were performed on various products in comparison with general manufacturer's calibrations, the repeatability and accuracy values observed are most probably maximums. The performances on specific products with dedicated calibrations would be best.

Thank to ENILBIO Poligny(39, France) for the supplying of whey samples

According to the evaluation report of the MPA™ infrared analyser – X. QUERVEL and Ph. TROSSAT – Actilait/Cecalait – March 2011

STANDARDS, DRAFT STANDARDS

Classification in alphabetical order by theme

ISO standards under development

METROLOGY		
UNCERTAINTY OF MEASUREMENT	ISO/CEI DIS GUIDE 98-3/S2 April 2011	UNCERTAINTY OF MEASUREMENT Part 3: Guide to the expression of uncertainty in measurement (GUM:1995) – Suppl. 2: Extension to any number of output quantities
MILK		
BACTERIAL COUNT	ISO/DIS 16297 Juillet 2011	MILK Bacterial count – Protocol for the evaluation of alternative methods
SENSORY ANALYSIS		
ASSESSORS	ISO/DIS 8586 February 2011	SENSORY ANALYSIS General guidance for the selection, training and monitoring of selected and expert assessors
MICROBIOLOGIE DES ALIMENTS		
PREPARATION OF SAMPLES	ISO/DIS 6887-6 May 2011	MICROBIOLOGY OF FOOD AND ANIMAL FEEDING STUFFS Preparation of test samples, initial suspension and decimal dilutions for microbiological examination Part 6: Specific rules for the preparation of samples taken at the primary production stage
SAMPLING	ISO/DIS 13307 May 2011	MICROBIOLOGY OF FOOD AND ANIMAL FEEDING STUFFS Primary production stage – Sampling techniques

ISO published standards

MICROBIOLOGY OF FOOD AND ANIMAL FEEDING STUFFS		
CULTURE MEDIA	ISO/TS 11133-2/A1 February 2011	MICROBIOLOGY OF FOOD AND ANIMAL FEEDING STUFFS Guidelines on preparation and production of culture media Part 2: Practical guidelines on performance testing of culture media Amendment 1: Test microorganisms for commonly used culture media

NEW EU REGULATIONS

Classification is established in alphabetical order of the first keyword

COLOURS
O.J.E.U. L 013, 18th January 2011 – Commission Directive 2011/3/EU of 17 January 2011 amending Directive 2008/128/EC laying down specific purity criteria on colours for use in foodstuffs http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:013:0059:0063:EN:PDF

FOOD INGREDIENT

O.J.E.U. L 029, 3rd February 2011 – Commission Decision of 2 February 2011 authorising the placing on the market of a mycelial extract from *Lentinula edodes* (Shiitake mushroom) as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:029:0030:0031:EN:PDF>

O.J.E.U. L 031, 5th February 2011 – Commission Decision of 4 February 2011 authorising the placing on the market of a fish (*Sardinops sagax*) peptide product as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:031:0048:0049:EN:PDF>

FOOD SAFETY

O.J.E.U. L 006, 11th January 2011 – Commission Regulation (EU) No 16/2011 of 10 January 2011 laying down implementing measures for the Rapid alert system for food and feed

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:006:0007:0010:EN:PDF>

METROLOGY

O.J.E.U. L 071, 18th March 2011 – Directive 2011/17/EU of the European Parliament and of the Council of 9 March 2011 repealing Council Directives 71/317/EEC, 71/347/EEC, 71/349/EEC, 74/148/EEC, 75/33/EEC, 76/765/EEC, 76/766/EEC and 86/217/EEC regarding metrology

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:071:0001:0003:EN:PDF>

PACKAGING

O.J.E.U. L 012, 15th January 2011 – Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:012:0001:0089:EN:PDF>

PDO / PGI

O.J.E.U. L 025, 28th January 2011 – Council Decision of 18 January 2011 on the signing of the Agreement between the European Union and the Swiss Confederation on the protection of designations of origin and geographical indications for agricultural products and foodstuffs, amending the Agreement between the European Community and the Swiss Confederation on trade in agricultural products

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:025:0003:0003:EN:PDF>

O.J.E.U. L 030, 4th February 2011 – Commission Regulation (EU) No 93/2011 of 3 February 2011 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Fontina (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:030:0019:0020:EN:PDF>

O.J.E.U. C 035, 4th February 2011 – 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 [Pélardon (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:C:2011:035:00103:0018:EN:PDF>

O.J.E.U. L 041, 15th February 2011 – Commission Regulation (EU) No 132/2011 of 14 February 2011 entering a name in the register of protected designations of origin and protected geographical indications [Piacentinu Ennese (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:041:0002:0003:EN:PDF>

O.J.E.U. L 059, 4th March 2011 – Commission Regulation (EU) No 215/2011 of 1 March 2011 approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Pecorino Sardo (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:059:0015:0016:EN:PDF>

O.J.E.U. L 059, 4th March 2011 – Commission Regulation (EU) No 217/2001 of 1 March approving non-minor amendments to the specification for a name entered in the register of protected designations of origin and protected geographical indications [Robiola di Roccaverano (PDO) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:059:0019:0020:EN:PDF>

O.J.E.U. L 066, 12th March 2011 – Commission Implementing Regulation (EU) No 238/2011 of 11 March 2011 entering a name in the register of protected designations of origin and protected geographical indications [Zazrivsky korbacik (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:066:0009:0010:EN:PDF>

O.J.E.U. L 066, 12th March 2011 – Commission Implementing Regulation (EU) No 239/2011 of 11 March 2011 entering a name in the register of protected designations of origin and protected geographical indications [Tekivsky salamovy syr (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:066:0011:0012:EN:PDF>

O.J.E.U. L 066, 12th March 2011 – Commission Implementing Regulation (EU) No 243/2011 of 11 March 2011 entering a name in the register of protected designations of origin and protected geographical indications [Oravsky korbacik (PGI) (cheese)]

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:066:0019:0020:EN:PDF>

REFERENCE LABORATORIES

O.J.E.U. L 058, 3rd March 2011 – Commission Regulation (EU) No 208/2011 of 2 March 2011 amending Annex VII to Regulation (EC) No 882/2004 of the European Parliament and of the Council and Commissions Regulations (EC) No 180/2008 and (EC) No 737/2008 as regards lists and names of EU reference laboratories

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:058:0029:0035:EN:PDF>

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.

FOOD QUALITY

YONG J.C. ; SUKWON K. – **Emerging technologies for food quality and food safety evaluation** – CRC Press – March 2011 – ISBN: 9781439815243 – 378 pages

<http://www.crcpress.com/>



This book reviews the scope of food quality parameters such as colour, texture, chemical compositions, and flavour. Each chapter describes a specific system for quality parameters, its principles, and its applications to foods. This book also explores new tools for laboratory analysis and clarifies how technologies from other disciplines can be developed into new approaches to food quality evaluation.

FORTHCOMING EVENTS

Classified in chronological order

MILK

16-18 May 2011
Athens, Greece

Symposium on sheep, goat and other non cow milk <http://idsheepgoatmilk2011.aua.gr/>

MILK AND DAIRY PRODUCTS

23-27 May 2011
Lyon, France

IDF/ISO analytical week

<http://www.idf-iso-analytical-week.org>

IN THE PRESS – ON THE WEB

Classification in alphabetical order of keywords

ADDITIVE

Scientific opinion on the use of sodium ascorbate as a food additive in vitamin D preparations intended to be used in formulae and weaning food for infants and young children

<http://www.efsa.europa.eu/en/efsajournal/pub/1942.htm>

► Following a request from the European Commission, the panel on food additives and nutrient sources added to food (ANS) was asked to deliver a scientific opinion on the use of sodium ascorbate as a food additive in vitamin D preparations intended to be used in formulae and foods for infants and young children.

ALLERGENS

Test kits detect food allergens quickly and easily

<http://www.laboratorytalk.com/news/ror/ror108.html>

► Romer Labs has launched its Agrastrip Allergen Test Kit range of immunological rapid tests in lateral-flow format, for the detection of allergen in food.

LISTERIA

Study notes HPP effectiveness in reducing *Listeria* risk in yoghurt

<http://www.foodproductiondaily.com/content/view/print/364237>

► Researchers claimed that high pressure processing combined with mint essential oil could be a promising technique for reducing *Listeria* risk in yoghurt-based drinks with no significant impacts to their quality attributes.

MELAMINE

Elisa kit checks melamine contamination in food

<http://www.laboratorytalk.com/news/bfg/bfg134.htm>

► Bioo Scientific announced the launch of the Maxsignal Melamine Elisa kit for detection of melamine in food and feed samples.

METHODS OF ANALYSIS

Report of the thirty second session of the Codex Committee on methods of analysis and sampling

http://www.codexalimentarius.net/download/report/757/REP11_MAc.pdf

► This report presents the conclusions of the 32nd session of the Codex Committee on methods of analysis and sampling, which held at Budapest, Hungary, from 7 to 11 March 2011. These conclusions will be submitted for adoption during the 34th session of the Codex Alimentarius Commission.

PESTICIDES

Reasoned opinion of EFSA: Modification of the existing MRLs for flubendiamide in various food commodities

<http://www.efsa.europa.eu/en/efsajournal/pub/1960.htm>

► In order to accommodate the authorised uses of flubendiamide on various crops in USA and India (rice), the existing MRLs in a wide range of food commodities of plant and animal origin would have to be raised. An evaluation report according to Article 8 of

Regulation (EC) No 396/2005 which was submitted to the European Commission and forwarded to EFSA on 20 July 2010.

Reasoned opinion of EFSA: Modification of the existing MRLs for chlorantraniliprole in various crops and in products of animal origin

<http://www.efsa.europa.eu/en/efsajournal/pub/2099.htm>

► The United Kingdom has submitted to EFSA an opinion concerning the fixation of import MRLs for the active substance chlorantraniliprole in various fruit and beverages, rice from USA, ruminants meat, liver and kidney, milk and eggs.

STAPHYLOCOCCI

Lab M expands range of ISO media for staphylococci

<http://www.laboratorytalk.com/news/lbm/lbm163.html>

► Lab M has expanded its range of media for the isolation and culture of staphylococci in products where organisms are likely to be stressed or present only in low numbers. This includes dried foods, such as baby milk and weaning products.

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