Irish National Accreditation Board

Accreditation Certificate

Public Analyst's Laboratory

Sir Patrick Dun's, Lower Grand Canal Street, Dublin 2

Testing Laboratory

Registration number: 099T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard **ISO/IEC 17025:2005 2nd Edition** *"General Requirements for the Competence of Testing and Calibration Laboratories"* ***(This Certificate must only be read in conjunction with the Annexed Schedule of Accreditation)***

Date of award of accreditation: **19:12:2002**
Date of last renewal of accreditation: **11:10:2012**
Expiry date of this certificate of accreditation: **11:10:2017**

This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: _____ **Chairperson:** _____

Dr Adrienne Duff — Mr Tom O'Neill

Issued on 11 October 2012

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.
The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

The Metropolitan Building, James Joyce Street, Dublin 1, Ireland Tel 1890 289 389 E-mail inab@inab.ie Web inab@inab.ie

Schedule of Accreditation

(Annex to Accreditation Certificate)

Permanent Laboratory:

Category A

PUBLIC ANALYST'S LABORATORY

Chemical and Biological Testing Laboratory

Initial Registration Date :	**23-September-1998**
Postal Address:	Sir Patrick Dun's, Lr. Grand Canal Street, Dublin 2
(Address of other locations as they apply)	
Telephone:	+353 (1) 6612022
Fax:	+353 (1) 6628532
E-mail:	
Contact Name:	Rosemary Hayden
Facilities:	Public testing service

Schedule of Accreditation

Permanent Laboratory:
Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

Testing and Calibration Categories:

Category A: Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.

Category B: Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.

Category C: Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.

Category D: Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using

(a) portable test equipment

(b) a site laboratory

(c) a mobile laboratory or

(d) equipment from a mobile or site laboratory

Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

Glossary of Terms

Facilities:

Public calibration/testing service:	Commercial operations which actively seek work from others.
Conditionally available for public calibration/testing:	Established for another primary purpose but, more commonly than not, is available for outside work.
Normally not available for public calibration/testing:	Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

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PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
737 .11	**Plastics** Chemical analysis	[1,2]Primary aromatic amines in black nylon kitchen utensils by UPLC-MS/MS: 2,4-toluenediamine (2,4-TDA) 2,6-toluenediamine (2,6-TDA) 0.00025-0.025 mg/kg (analysed as 3% acetic acid solution, results obtained must be corrected for the surface area of the individual utensil under analysis) [1]Aniline (ANL) 4,4'-Methylenedianiline (4,4'-MDA) 0.00025-10.0 mg/kg (analysed as 3% acetic acid solution, results obtained must be corrected for the surface area of the individual utensil under analysis) *Total PAAs: 0-20.05 mg/kg (*Note: based on lower bound calculation)	SOP PALC 0092 based on Mortensen, S.K.; Trier, X.T; Foverskov, A; Petersen, J.H: Specific determination of 20 primary aromatic amines in aqueous food simulants by liquid chromatography – electrospray ionization-tandem mass spectrometry, J. Chromatogr. A 1091, (2005) 40-50
		[1]Residual formaldehyde in melamine kitchenware by UV spectrophotometry: 3-30 mg/kg food simulant (analysed as 3% acetic acid solution, results obtained must be corrected for the surface area of the individual utensil under analysis)	SOP PALC 0117 based on Determination of formaldehyde in food simulants I.S. CEN/TS 13130-23:2005

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
737	**Plastics**		
.11	Chemical analysis	[1,2]Residual melamine in melamine kitchenware by UPLC-MS/MS: 0.25-250 mg/kg food simulant (analysed as 3% acetic acid solution, results obtained must be corrected for the surface area of the individual utensil under analysis)	SOP PALC 0094 based on I.S.EN13130-1:2004, Waters application note 7200022823EN, Oct 2008
.11	Chemical analysis	[1]Epoxidised soybean oil by GC-MS (ESBO) in PVC Gasket 3.0% - 50% w/w	SOP PALC 0039 based on Castle, L., Sharman, M., and Gilbert, J. A.O.A.C. No.6., 71, 1183-1186 (1988)
.11	Chemical analysis	[1]Bisphenol A (analysed in 50% aqueous ethanol food simulant, results obtained must be corrected for the surface area of the individual article under analysis) 1-1000 µg/kg	SOP PALC 0089 based on Bisphenol A-Draft Validation Report, October 2009, EURL, Ispra

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
751 .07	**Foods** Cereals and bakery products.	[1,3]Coumarin by HPLC with UV detection. Bakery products: 1-100 mg/kg Breakfast cereals: 2-50 mg/kg	SOP PALC 0121 based on Anal. Methods 2011, 3, 414. Scotter et al.
751 .11 .12	**Foods** Wine Alcoholic beverages (other than wine)	[1,3]Alcohol by volume in drinks by distillation and pyknometry 2-50% v/v	SOP PALC 0001 based on Leatherhead F.R.A. Analytical Methods Manual (2nd Edition) – Determination of Ethyl Alcohol by Distillation
.10	Non-alcoholic beverages	[1,3]Fructose, glucose and sucrose by HPLC with refractive index detection Fructose 0.1-20.0% w/v Glucose 0.1-20.0% w/v Sucrose 0.1-20.0% w/v *Total Sugars 0-60.0% w/v	SOP PALC 0005
.12	Alcoholic beverages Spirits	[1,3]Fructose, glucose and sucrose by HPLC with electrochemical detection Fructose 5-1000 mg/l Glucose 5-1000 mg/l Sucrose 5-1000 mg/l *Total Sugars: 0-3000 mg/l (*Note: based on lower bound calculation)	SOP PALC 0151

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
751 .15	**Foods** Confectionery *Honey*	[1]Fructose, glucose and sucrose in honey by HPLC with refractive index detection 0.1-50% w/w	SOP PALC 0005
		[1]Diastase number of honey 2.5 - 30 Diastase number	SOP PALC 0113, by Phadebas, based on Harmonised Methods of the International Honey Commission, 2009.
		[1]Conductivity of Honey 0.1-1.6 $mS.cm^{-1}$	SOP PALC 0114, as above Honey Commission, 2009.
		[1]pH of honey 3.0-7.0 Acidity of honey 5-50 mEq/kg	SOP PALC 0115, as above, Honey Commission, 2009.
		[1]Insoluble matter in honey 0.01-0.11 g/100 g	SOP PALC 0118, as above Honey Commission, 2009.
		[1]Moisture in honey by refractometer 10-30%	SOP PALC 0086 as above Honey Commission, 2009.
		[1]5-hydroxymethylfurfural (HMF) content of honey by HPLC with UV detection 10-2166 mg/kg	SOP PALC 0057 as above Honey Commission, 2009.

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
751 .12	**Foods** Alcoholic beverages - Vodka	[1,3]Conductivity 7 – 200 µS/cm	SOP PALC 0114
751 .21	**Foods** Others - Food supplements based on rice fermented with red yeast *Monascus purpureus*	[1,2,3]Citrinin by UPLC-MS/MS 25 -4,000 µg/kg	SOP PALC 0134
751 .12	**Foods** Alcoholic beverages - spirits	[1,2,3]Congeners in alcoholic beverages by GC Ethanal Ethyl Acetate Acetal Methanol Butan-2-ol Propan-1-ol Butan-1-ol 2-methyl propan-1-ol 2-methyl butan-1-ol 3-methyl butan-1-ol 10 mg/l – 250 mg/l 2.5-62.5 g/hL @ 100% vol Higher alcohols (sum of propan-1-ol, butan-1-ol, butan-2-ol, 2-	SOP PALC 0154

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
		methyl propan-1-ol, 2-methyl butan-1-ol, 3-methyl butan-1-ol expressed as 2-methyl propan-1-ol). 2.1 -370 g/hL @ 100% vol Aldehydes (sum of ethanal and acetal expressed as ethanal) 0.9-85.9 g/hL @ 100% vol	
751 .10	**Foods** Non-alcoholic beverages	[1,3]Benzoic acid and sorbic acid in non-alcoholic beverages by HPLC Benzoic acid 10-500 mg/l Sorbic acid 10-500 mg/l	SOP PALC 0008 based on VEMS Method, Code: F/0290, June, 1994
.10	Non-alcoholic beverages	[1,3]Quassin in non-alcoholic beverages by HPLC 0.05-1.0 mg/kg	SOP PALC 0137 based on Anal. Methods 2011, 3, 414. Scotter et al.
.01 .05 .06 .07 .08 .15	Dairy products Fats and Oils Soups broths and sauces Cereals & bakery products Fruit and vegetables Confectionery	[1,3]Benzoic acid and sorbic acid in foods by steam distillation and HPLC Benzoic acid 50-1000 mg/kg Sorbic acid 50-1000 mg/kg	SOP PALC 0009 based on VEMS Method, Code: F/0290, June, 1994
.03 .04	Meat and meat products, game and poultry Fish, Shellfish and	[1,3]Sulphur dioxide in food and beverages by distillation and titrimetry Meat products 10-1000 mg/kg Dried fruit 10-2000mg/kg	SOP PALC 0011 based on VEMS Method, Code: F/0360, May 1994

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
	molluscs .08 Fruit and vegetables .10 Non-alcoholic beverages .11 Wine .12 Alcoholic beverages (other than wine)	Wine 10-160 mg/l Raw potatoes 10-1000 mg/kg Raw crustaceans 10-240 mg/kg Cider 10-200mg/l Cordials 10-250 mg/l Parsnips 10-3000 mg/kg Beer 10-50 mg/l	
751 .08	**Foods** Fruit and vegetables	[1,3]Nitrate in lettuce and spinach by anion exchange HPLC 200-7500 mg/kg	SOP PALC 0015 based on I.S. EN 12014-2:1997
.10	Non-alcoholic beverages	[1,3]Aspartame, acesulfame-K and saccharin in non-alcoholic beverages by HPLC Aspartame 40-800 mg/l Acesulfame-K 20-400 mg/l Saccharin 10-200 mg/l	SOP PALC 0016 based on HPLC in Food Analysis, Ed. R. Macrae, 2nd Edition, 1988, P197-207
.01 .06 .13 .15	Dairy products Soups, broths and sauces Ices and desserts Confectionery	[1,3] Aspartame, acesulfame-K and saccharin in selected foods by HPLC Aspartame 40-1000 mg/kg Acesulfame-K 10-1000 mg/kg Saccharin 10-200 mg/kg	SOP PALC 0054 based on I.S. EN 12856:1999
.10	Non-alcoholic beverages	[1,2,3]Steviol Glycosides (Rebaudioside A and Stevioside) in flavoured drinks by HPLC	SOP PALC 0135 based on FAO JECFA Monographs 10(2010) P. 17-

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
	Rebaudioside A: 10-400 mg/l (3.3 - 132 mg/l steviol equivalents) Stevioside: 10-400 mg/l (4-160 mg/l steviol equivalents)	21
751 **Foods** .15 Confectionery - *Chocolate* -*Other confectionery*	[1,2,3]Steviol Glycosides (Rebaudioside A and Stevioside) by HPLC <u>Chocolate</u>: Rebaudioside A: 60-1,500 mg/kg (20 - 500 mg/kg steviol equivalents) Stevioside: 60-1,100 mg/kg (24-440 mg/kg steviol equivalents) <u>Other confectionery</u> Rebaudioside A: 80-2,000 mg/kg (26 - 660 mg/kg steviol equivalents) Stevioside: 80-2,000 mg/kg (30-800 mg/kg steviol equivalents)	SOP PALC 0149 based on FAO JECFA Monographs 10(2010) P. 17-21

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
.21	Others *-Chewing gum*	[1,2,3] Antioxidants in chewing gum by gradient high performance liquid chromatography with UV detection Propyl gallate Octyl gallate Dodecyl gallate Tertiary-butylhydroquinone (TBHQ) Butylated hydroxyanisole (BHA) Butylated hydroxytoluene (BHT) 20- 800 mg/kg	SOP PALC 0128 based on IUPAC method 2.642
751	**Foods**	[1,2,3]Tyramine, putrescine, cadaverine, histamine, agmatine, phenyethylamine, spermidine and spermine by HPLC and fluorescence detection Tyramine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Putrescine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Cadaverine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Histamine 10-1000 mg/kg (.04)	SOP PALC 0017 based on SOP for Biogenic Amines by HPLC, Torry Research Station, MAFF, Scotland
.04	Fish, shellfish and molluscs Fish, shellfish and fish products		
.06	Soups (fish), broths and sauces		

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
	10-4000 mg/kg (.06) Agmatine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Phenyethylamine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Spermidine 10-1000 mg/kg (.04) 10-4000 mg/kg (.06) Spermine 10-1000 mg/kg (.04) 10-4000mg/kg (.06)	
.10 Non-alcoholic beverages .14 Cocoa and Cocoa preparations, coffee, tea.	[1,3]Caffeine in foodstuffs by HPLC and UV detection Instant Coffee 0.1-5 g/kg Liquid Samples 20-350 mg/l	SOP PALC 0025 based on ISO 20481:2008(E)

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
751	**Foods**	[1,3]Sucralose in foodstuffs by HPLC and refractive index detection Alcoholic and non-alcoholic beverages 5-300 mg/l Yoghurts 40-800 mg/kg	SOP PALC 0026 based on TDS for Splenda, Tate and Lyle
.01	Dairy products		
.10	Non-alcoholic beverages		
.12	Alcoholic beverages (other than wine)		
.13	Ices and desserts		
.10	Non-alcoholic beverages Apple Juice Apple smoothies	[1,3]Patulin by UPLC with UV or MS/MS detection 10-200 µg/kg	SOP PALC 0045 based on Romer Application brief, 2nd Feb 2007. LC-MS/MS confirmation.
.12	Alcoholic beverages Ciders	10-250 µg/kg	
.21	Others - Baby foods	5 – 25 µg/kg	
.03	Meat and meat products, game and poultry	[1,3]Nitrite and nitrate (expressed as sodium nitrite and sodium nitrate) by anion exchange HPLC 20-1000 mg/kg (.03) 50-2500mg/kg (.21, Nitrite) 100-2500mg/kg (.21, Nitrate)	SOP PALC 0028 based on I.S. EN 12014-4:2005
.21	Others Brines		

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
.18	Foodstuffs intended for special nutritional use – infant formula and follow on formula	[1]Taurine in infant formula and follow-on formula by HPLC with UV detection Infant and follow on formula prepared as per manufacturer's instructions Range 5-100 mg/L	SOP PALC 0138 based on J. Liquid Chrom. and Related Technology; 20(8) 1269-1278 (1997)
.05	Fats and oils	[1,3]The determination of monochloropropandiol esters and glycidol esters by GC-MS 0.1-20.0 mg/kg expressed as free equivalents	SOP PALC 0140 based on AOCS method Cd 29a-13

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
751	**Foods**	[1,2,3]Polycyclic aromatic hydrocarbons: Cyclopenta[*cd*]pyrene Benz[*a*]anthracene Chrysene 5-Methylchrysene Benzo[*b*]fluoranthene Benzo[*j*]fluoranthene Benzo[*k*]fluoranthene Benzo[*a*]pyrene Indeno[1,2,3-*cd*]pyrene Dibenzo[*a,h*]anthracene Benzo[*ghi*]perylene Dibenzo[*a,l*]pyrene Dibenzo[*a,e*]pyrene Dibenzo[*a,i*]pyrene Dibenzo[*a,h*]pyrene	GC-MS SOP PALC 0075
.03	Meat and meat products, game and poultry Smoked meat	Individual PAHs 0.9-20.0 µg/kg *Sum of PAH4 0- 80.0 µg/kg	
	Heat treated meat	Individual PAHs 0.5-25.0 µg/kg *Sum of PAH4 0-100.0 µg/kg	

.04	Fish, shellfish and molluscs Smoked fish	Individual PAHs 0.9-20.0 µg/kg *Sum of PAH4 0-80.0 µg/kg	
.05	Fats and oils	Individual PAHs 0.9-20.0 µg/kg *Sum of PAH4 0-80.0 µg/kg	
.07	Cereals and bakery products - *Flour*	Individual PAHs 0.05-5 µg/kg *Sum of PAH4 0-20.00 µg/kg	
.09	Herbs and spices	Individual PAHs 0.9-30.0 µg/kg *Sum of PAH4 0-120.0 µg/kg	
.14	Cocoa and Cocoa preparations, coffee, tea Raw beverages	Individual PAHs 1.0-10.0 µg/kg *Sum of PAH4 0-40.0 µg/kg	
	Brewed beverages	Individual PAHs 0.2-2.0 *Sum of PAH4 0-8.0 µg/kg	
	Cocoa beans and derived products	Individual PAHs 0.5-29.0 µg/kg fat *Sum of PAH4 0-116.0 µg/kg fat	
.18	Foodstuffs intended for special nutritional uses Infant formula Baby foods	Individual PAHs 0.2-20.0 µg/kg *Sum of PAH4 0-80.0 µg/kg	
.21	Others Food supplements	Individual PAHs 0.9-200.0 µg/kg *Sum of PAH4 0-800.0 µg/kg *Note: ranges for Sum PAH4 based on lower bound calculation.	

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
752	**Residues in foods and agricultural materials**	[1,3] Inorganic arsenic species extracted with tetramethylammonium hydroxide by HPLC-ICP/MS Fish tissue 0.20-2.0 mg/kg Rice and rice products 0.04-2.0 mg/kg	SOP PALC 0108, based on US Environmental Protection Agency methods 3110 and 6879.
.01	Elements		
.99	Other Residues	[1]Acrylamide in food 20-2500 µg/kg	SOP PALC 0032

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
752	**Residues in foods and agricultural materials**	[1,3]Aflatoxins B_1, B_2, G_1 and G_2 in food by immunoaffinity column extraction and HPLC. Cereals, seeds, nut products, dried fruit and dried fruit products: Individually 0.2-20.0 µg/kg *Total Aflatoxins: 0-80 µg/kg Shelled nuts Individually 0.2-25.0 µg/kg *Total Aflatoxins 0-100.0 µg/kg Nuts and groundnuts in shell Individually 0.2-40.0 µg/kg *Total Aflatoxins 0-160 µg/kg Spices Individually 0.2-30.0 µg/kg *Total Aflatoxins 0-120 µg/kg Baby foods 0.05 - 20µg/kg (B_1 only) Chocolate: 1.0 – 20 µg/kg	SOP PALC 0031
.05	Mycotoxins Cereals, nut products, dried fruit and dried fruit products products, shelled nuts, nuts, groundnuts, spices, seeds, baby foods and chocolate.		
.05	Mycotoxins Maize-based foods and baby foods	[1,3]Fumonisin B_1, B_2 and B_3 in maize and maize products by immunoaffinity column extraction and HPLC with flourescence detection Fumonisin B_1 50-7780 µg/kg Fumonisin B_2 50-8010 µg/kg Fumonisin B_3 50-400 µg/kg *Total Fumonisins 0-16,190 µg/kg	SOP PALC 0076 based on Application notes from R-Biopharm Rhone Ltd. (*Note: based on lower bound calculation)

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
752	**Residues in foods and agricultural materials** Milk powder Milk	[1]Aflatoxin M_1 in milk and milk powder by HPLC and fluorescence detection. Milk powder 0.02-0.75 µg/kg Milk 0.025-0.33 µg/l	SOP PALC 0077 based on Application notes from R-Biopharm Rhone Ltd.
.05	Mycotoxins Cereal products Dried fruits Wine Beer Coffee Baby food Liquorice Spices Grape juice Chocolate Cocoa	[1,3]Ochratoxin A in foodstuffs by HPLC and fluorescence detection Cereals, Coffee, Dried fruit, Paprika, Chocolate, Chilli, Liquorice, Black/White pepper, Nutmeg, Ginger, Tumeric, Mixed spices, Cocoa 1-60 µg/kg Baby foods 0.2-30 µg/kg Red/White grape juice and Red/White wine 0.2-6 µg/L Beer 0.2-3 µg/L	SOP PALC 0018 based on Application notes from R-Biopharm Rhone Ltd.

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752	**Residues in foods and agricultural materials**	[1,3]Zearalenone in foodstuffs by immunoaffinity column extraction and HPLC with fluorescence detection Cereals 20-400 µg/kg Cereal-based baby foods 20-400 µg/kg Maize Oil 20-1,000 µg/kg	SOP PALC 0022 based on Application notes from R-Biopharm Rhone Ltd.
.05	Mycotoxins Cereals, Cereal-based baby foods Maize Oil		
.05	Mycotoxins Cereals, cereal based baby food, pasta	[1,3]Deoxynivalenol by HPLC and fluorescence detection 50-4,000 µg/kg	SOP PALC 0081 based on Application notes from R-Biopharm Rhone Ltd.
.05	Mycotoxins Cereals	[1]T-2 and HT-2 toxins in cereals by UPLC-MS/MS T-2 4-800 µg/kg HT-2 4-800 µg/kg *Sum of T-2 and HT-2 0-1,600 µg/kg. (*Note: based on lower bound calculation)	SOP PALC 0074 UPLC- MS/MS

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752	**Residues in foods and agricultural materials**	[1,2]Furan in food by headspace GC-MS Solid foods Furan (µg/kg) 5-10,000 Liquid foods Furan (µg/l) 5-1000	SOP PALC 0041 based on U.S. Food and Drug Administration (US FDA) Centre for Food Safety and Applies Nutrition (CFSAN) Determination of furan in foods May 7 2004 http://www.cfsan.fda.gov/~dms/furan.html
.99	Other residues		
.99	Sweets, Biscuits and cakes Soy products, milk powder	[1,3]Melamine in foodstuffs by UPLC-MS/MS 1.48-5 mg/kg for sweets biscuits and cakes 1.48-5 mg/kg for soy products, milk powder	SOP PALC 0091 based on Waters application note 720002823EN
.99	Other residues *jarred foods including infant foods*	[1,3]Epoxidised Soybean Oil in food, food simulant by GC-MS 3-1000 mg/kg ESBO in food 30-12000 mg/kg ESBO in food simulant	SOP PALC 0039 based on Castle, L., Sharman, M., and Gilbert, J. A.O.A.C. No.6., 71, 1183-1186 (1988)

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
766	**Waters**	[1,3]Mercury in Water by Cold Vapour AA spectrophotometry 0.5 - 5.0 µg/L	SOP PALCW 0023 based on the examination of water and waste water, 22nd edition, 2012.
.01	Waters for potable and domestic purposes		

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
766 .01	**Waters** Waters for potable and domestic purposes	[1,2,3]Automated colorimetric/turbidimetric analysis: Ammonium (as NH_4) 0.064-1.15mg/l Chloride (Cl) 10-250mg/l Nitrite (NO_2) 0.164-1.313mg/l Nitrate (NO_3) 6.64 - 50.91mg/l Sulphate (SO_4) 8-250mg/l Alkalinity (HCO_3) 50-300mg/l Total Hardness ($CaCO_3$) 50-300 mg/l Colour (Pt-Co units) 10-90 mg/l	SOP PALCW 0021 using Thermoscientific Aquakem 250 discrete analyser manual

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
766	**Waters**	[1,3]Fluoride and sulphate in water by reagent free ion chromatography (RFIC) Sulphate 5-250 mg/l Fluoride 0.10-1.75 mg/l	SOP PALCW 0005 based on the examination of waters and waste waters 22nd edition, 2012
.01	Waters for potable and domestic purposes		
.01	Waters for potable and domestic purposes	[1,2,3]Total metals in water samples by inductively coupled plasma/mass spectrometry (ICP-MS) Chromium 4-80 Cr µg/l Cadmium 2-40 µg/l Lead 2-40 µg/l Nickel 2-40 µg/l Copper 0.1-2.0 mg/l Sodium 2-200 mg/l Calcium 2-200 mg/l Potassium 0.10-2.0 mg/l Magnesium 0.10-2.0 mg/l Aluminium 50-400 µg/l Antimony 2-40 µg/l Arsenic 2-40 µg/l Selenium 2-40 µg/l Manganese 20-400 µg/l Boron 100-2000 µg/l Iron 50-750 µg/l	SOP PALCW 0006 based on the examination of water and waste water, 22nd edition, 2012

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
766 .01	**Waters** Waters for potable and domestic purposes	[1,3]Turbidity in waters Turbidity (NTU) 0.5-400	SOP PALCW 0020 based on Hach Turbidimeter Method.
		[1,3]Determination of pH 4-10	SOP PALCW 0022 based on Jenway pH meter operation
		[1,3]Determination of conductivity 20-1270µS/cm at 20°C	SOP PALCW 0019 based on Jenway conductivity meter operation.
1061 .09	**General chemistry** Trace elements	[1]Hg in blood by cold vapour AA spectrometry. 2.0-10.0 µg/l	SOP PALC 0085 based also on SOP PALC 0021.
		[1]Copper in serum by flame AA spectrophotometry. 50.0-197.4 µg/100 ml	SOP PALC 0099
		[1]Zinc in serum by flame AA spectrophotometry. 50.0-182.4 µg/100 ml	SOP PALC 0101
		[1]Copper in urine by flame AA spectrophotometry. 10.0-400 µg/l	SOP PALC 0104
		[1]Lead in whole blood by graphite furnace AA spectrophotometry 2.0-50 µg/100ml	SOP PALC 0097

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
712	**Clays, ceramics and related materials**		
.12	Ceramics	[1]Determination of the migration of lead and cadmium by inductively coupled plasma mass spectroscopy 0.2-40.0 mg/l (lead) 0.02-2.0 mg/l (Cadmium) (Analysed as 4% Acetic Acid, results obtained must be corrected for surface area of the individual non fill article)	SOP PALC 0112 based on Commission Directive 2005/31/EC and 84/500/EEC

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
797 Misc Materials and products **.11** Chemical tests	[1,2] Analysis of metals in Hexafluorosilicic Acid solution (HFSA) Using ICP-MS Antimony 40-9250 µg/l Arsenic 40-46200 µg/l Cadmium 40-4630 µg/l Chromium 40-46200 µg/l Lead 40-46200 µg/l Nickel 40-46200 µg/l Selenium 40-9250 µg/l	SOP PALCW 0006 based on I.S. EN 12175:2013
	[1]Analysis of Fluoride in 10.9% HFSA solution by Reagant free Ion Chromatography	SOP PALCW 0005 based on I.S. EN 12175:2013
	[1]Analysis of Mercury in HFSA by Cold Vapour Atomic Absorption spectrophotometry 100-1200 µg/l	SOP PALCW 0023 based on I.S. EN 12175:2013
	[1]Analysis of HFSA in Aqueous solution (10-35%) by Titrimetry	SOP PALCW 0024 based on I.S. EN 12175:2013

Flexible scope (pages 4-28: 1. Ranges may be extended, 2. parameters may be added and 3. matrices may added in accordance with the laboratory's approved and documented procedures. For details refer to the laboratory's list of Additionally Accredited Tests, available from the laboratory.

Scope of Accreditation

PUBLIC ANALYST'S LABORATORY

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological tests on food**	Aerobic colony count (pour plate) at 30°C for 72 hours.	SOP PALM 0001 based on I.S. EN ISO 4833-1:2013
.01	Dairy products		
.02	Egg and egg products	Aerobic colony count (spiral plate) at 30°C for 72 hours.	SOP PALM 0001 (S) based on I.S. EN ISO 4833-2:2013 & AC:2014
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.08	Fruit and vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological tests on foods**	Enumeration of β-glucuronidase- positive E.coli by colony count at 44°C using TBX	SOP PALM 0026 based on ISO 16649-2:2001
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.07	Cereals and bakery products		
.14	Cocoa and cocoa preparations, coffee and tea		
.17	Prepared dishes		
.01	Dairy products	Enumeration of presumptive *Bacillus cereus using Bacillus cereus agar*.	SOP PALM 0003(S) based on ISO 7932:2004
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.07	Cereals and bakery products		
.08	Fruit and vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811 .04	**Microbiological tests on food** Fish, shellfish and molluscs	Detection and enumeration of *Vibrio parahaemolyticus* (Surface – spread/spiral)	SOP PALM 0028 based on ISO TS 21872-1:2007/Cor1:2008
.01 .02 .03 .04 .08 .17	Dairy products Egg and egg products Meat and meat products, game and poultry Fish, shellfish and molluscs Fruit and vegetables Prepared dishes	Enumeration of *Clostridium perfingens*	SOP PALM 0006 based on I.S. EN ISO 7937:2004

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

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Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological Tests on food**	Enumeration of Enterobacteriacae	SOP PALM 0009 based on ISO 21528-2:2004
.01	Dairy products		
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.08	Fruit and vegetables		
.17	Prepared dishes		

.02	Egg and egg products	Enumeration of coagulase-positive staphylococci by RPF technique	SOP PALM 0061 based on I.S. EN ISO 6888-2: 1999 Amd.1 2003
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.08	Fruit and vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological tests on food**	Detection of *Listeria monocytogenes*	SOP PALM 0017 based on I.S. EN ISO 11290-1:1996/Amd.1:2004
.01	Dairy products		
.02	Egg and egg products		
.03	Meat and meat products, game and poultry	Enumeration of viable aerobic mesophilic flora using Tempo TVC. (excluding .08 Fruit and vegetables)	SOP PALM 0079 based on AFNOR TEMPO TVC validation BIO 12/15-09/05
.04	Fish, shellfish and molluscs		
.07	Cereals and bakery products		
.08	Fruit and vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
.01	Dairy Products	Elfa Detection of Salmonella spp using VIDAS SLM Kit.	SOP PALM 4001 based on AFNOR VIDAS Salmonella (Vidas SLM) method BIO 12/1-04/94 Screening method. Cultural and confirmation aspects based on I.S. EN ISO 6579:2002 Amd. 1 2007
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.06	Soups, broths and sauces		
.07	Cereals and bakery products	Detection of salmonella spp	SOP PALM 0004 based on I.S. EN ISO 6579:2002 Amd. 1 2007
.08	Fruit and vegetables		
.09	Herbs and spices		
.12	Alcoholic beverages (other than wine) - Cream Liquers		
.13	Ices and desserts		
.15	Confectionery		
.16	Nuts and nut products		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological Tests on Food**		
.01	Dairy Products	Detection of *Campylobacter* spp	SOP PALM 0023 based on I.S. EN ISO 10272-1:2006
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.08	Fruit and vegetables		
.17	Prepared dishes		
.01	Dairy products	Enumeration of Listeria spp and *L. monocytogenes*.	SOP PALM 0018(S) based on I.S. EN ISO 11290-2:1999/Amd.1:2004
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.08	Fruit and vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological Tests on Food**	Enumeration of Escherichia coli in food products using TEMPO EC(E coli) test	SOP PALM 0005 based on TEMPO EC AFNOR validation BIO 12/13-02/05
.02	Egg and egg products		
.03	Meat and meat products, game and poultry		
.04	Fish, shellfish and molluscs		
.07	Cereals and Bakery products		
.17	Prepared dishes		

811	**Microbiological tests on foods**	Enumeration of viable aerobic mesophilic flora using TEMPO AC	SOP PALM 0011 based on TEMPO AC® AFNOR validation BIO 12/35-05/13 (validation date 23.05.2013)
.01	Dairy Products		
.02	Egg & egg products		
.03	Meat & meat products, game and poultry		
.04	Fish, shellfish & molluscs		
.07	Cereals and bakery products		
.08	Fruit & vegetables		
.17	Prepared dishes		

Scope of Accreditation

Public Analyst's Laboratory

Permanent Laboratory:

Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
811	**Microbiological Tests on Food**	Enumeration of yeasts and moulds in products with water activity greater than 0.95	SOP PALM 0025 based on ISO 21527-1:2008
.07	Cereals and bakery products		
.08	Fruit & vegetables		
.10	Non-alcoholic beverages		

811	**Microbiological tests on foods**	Enumeration of yeasts and moulds in products with water activity less than or equal to 0.95	SOP PALM 0080 based on ISO 21527-2:2008
.07	Cereals and bakery products		

Scope of Accreditation

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Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
870	**Waters including effluents**	Detection and enumeration of coliforms bacteria and *E.coli* in water by membrane filtration	SOP PALM 0100 based on the Microbiology of Drinking Water 2009, Part 4A
.11	Bacteriological condition of potable waters		
.16	Bacteriological condition of environmental waters		
.11	Bacteriological condition of potable waters	Enumeration of heterotrophic bacteria colony count technique at 22˚C or 37˚C	SOP PALM 0107 based on the ISO 6222:1999
.15	Bacteriological condition of swimming pools and spas	Detection and enumeration of *Ps. aeruginosa* in water by membrane filtration	SOP PALM 0106 based on the Microbiology of Drinking Water 2010, Part 8
.11	Bacteriological condition of potable waters	Detection and quantification of *Legionella spp* and *Legionella pneumophila* by concentration and genic amplification by quantitative polymerase chain reaction (qPCR)	SOP PALM 0110 based on the ISO/TS 12869: 2012

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Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
870	**Waters including effluents**	Detection and enumeration of Enterococci in water by membrane filtration	SOP PALM 0102 based on ISO 7899-2:2000
.11	Bacteriological condition of potable waters	Detection of Salmonella spp in water	SOP PALM 0103 based on ISO 19250:2010. Water Quality - Detection of *Salmonella spp.*
.15	Bacteriological condition of swimming pools and spas		
.16	Bacteriological condition of environmental waters		
.11	Bacteriological condition of potable waters	Detection and enumeration of sulphite reducing clostridia and *Cl. perfringens* in water by membrane filtration.	SOP PALM 0104 based on the Microbiology of Drinking Water 2010, Part 6
.15	Bacteriological condition of swimming pools and spas		
.16	Bacteriological condition of environmental waters	Chromogenic/ Fluorogenic MPN enumeration of coliform and *E. coli* using Colilert Quanti-Tray MPN.	SOP PALM 0108 based on ISO 9308-2:2012

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Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
870	**Waters including effluents**	ELFA Detection of Salmonella spp using VIDAS SLM kit.	SOP PALM 4011 based on AFNOR VIDAS Salmonella method BIO 12/1-04/94 (renewed 2014). ISO 19250:2010, Water quality - Detection of *Salmonella spp.* for cultural and confirmation.
.11	Bacteriological condition of potable waters		
.15	Bacteriological condition of swimming pools and spas		
.16	Bacteriological condition of environmental waters	Detection and Enumeration of thermotolerant *Campylobacter* spp. in water by the membrane filtration method	SOP PALM 0062 based on ISO 17995:2005
870	**Water, including Effluents**		
.11	Bacteriological condition of potable waters	Detection and enumeration of sulphite - reducing clostridia and *Clostridia perfringens* in Drinking Water and other Waters by Membrane Filtration, to include sporulating sulphite reducing clostridia.	SOP PALM 0104 based on the Microbiology of Drinking Water 2010, Part 6

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Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
818	**Microbiological tests for factory hygiene purposes**		
.01	Surfaces Stick swabs	ELFA detection of Salmonella spp using VIDAS SLM kit	SOP PALM 4001 based on AFNOR VIDAS Salmonella (VIDAS SLM) method BIO 12/1-04/94 Screening method. Cultural and confirmation aspects based on I.S. EN ISO 6579:2002 Amd. 1 2007

818	**Microbiological tests for factory hygiene purposes**		
.01	Surfaces Stick swabs	Enumeration of viable aerobic mesophilic flora using TEMPO AC.	SOP PALM 0011 based on TEMPO AC® AFNOR validation BIO 12/35-05/13 (validation date 23.05.2013)

Scope of Accreditation

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Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
818	**Microbiological tests for factory hygiene purposes**	Aerobic colony (Pour plate) at 72°C	SOP PALM 0001 based on I.S. EN ISO 4833-1:2013
.01	Surfaces Stick swabs	Aerobic colony count (spiral plate) at 72°C	SOP PALM 0001(S) based on I.S. EN ISO 4833-2:2013 & AC:2014
		Detection of Campylobacter spp	SOP PALM 0023 based on I.S. EN ISO 10272-1:2006
		Enumeration of *Escherichia coli* in food products using TEMPO EC(E coli) test	SOP PALM 0005 based on AFNOR TEMPO EC validation BIO 12/13-02/05
		Detection of Salmonella spp	SOP PALM 0004 based on I.S. EN ISO 6579:2002 Amd 1 2007
		Enumeration of Enterobacteriacae	SOP PALM 0009 based on ISO 21528-2:2004
		Enumeration of ß-glucuronidase-positive *E.coli* by colony count at 44°C using TBX	SOP PALM 0026 based on ISO 16649-2:2001
		Enumeration of viable aerobic mesophilic flora using Tempo TVC.	SOP PALM 0079 based on AFNOR TEMPO Validation BIO 12/15-09/05

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Category A

Biological Testing Laboratory

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used. Documented in-house methods:
810	**Microbiological tests on cosmetics**		
.12	Microbial count on cosmetics	Enumeration of aerobic mesophilic bacteria	SOP PALM 3000 based on ISO 21149:2006
		Detection of *Ps. Aeruginosa*	SOP PALM 3001 based on ISO 22717:2006
		Enumeration of yeasts and moulds	SOP PALM 3003 based on ISO 16212:2008
		Detection of *Staphylococcus aureus* in cosmetic products	SOP PALM 3002 based on ISO 22718:2006