

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

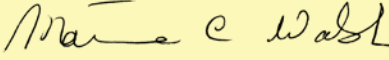
Date of last renewal of accreditation: 14:12:2007

Expiry date of this certificate of accreditation: 19:12:2012

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: 

Mr Tom Dempsey

Chairperson: 

Dr Máire Walsh

Issued on 06 May 2008

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.

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
737 .11 Plastics Chemical analysis	<p>The determination of primary aromatic amines in black nylon kitchen utensils:</p> <p>2,4-toluenediamine (2,4-TDA) 2,6-toluenediamine (2,6-TDA) Aniline (ANL) 4,4'-Methylenedianiline (4,4'-MDA) 3,3'-Dimethylbenzidine (3,3' - DMB) o-Toluidine (o-T)</p> <p>0.25 - 25 ppb (analysed as 3% acetic acid solution, results obtained must be corrected for surface area of the individual utensil under analysis)</p> <p>Determination of residual formaldehyde in Melamine kitchenware, 3.00-30mg/kg food stimulant (analysed as 3% acetic acid) Results obtained must be corrected for the surface area of the individual utensil under analysis.</p>	<p>SOP PALC 0092 Documented in-house method 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</p> <p>SOP PALC 0117 based on Determination of formaldehyde in food simulants I.S. CEN/TS 13130-23:2005</p>

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
737 Plastics .11 Chemical analysis	Determination of residual melamine in melamine kitchenware 0.3-250 mg/kg food stimulant (analysed as 3% acetic acid solution). Results obtained must be corrected for surface area of the individual utensil under analysis Determination of Epoxidised Soybean oil in PVC Gasket 3.0% - 50% w/w	SOP PALC 0094, based on I.S.EN13130-1:2004, Waters application note 7200022823EN , Oct 2008 In house method SOP PALC 0039

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 Foods .11 Wine .12 Alcoholic beverages (other than wine)	The determination of percentage alcohol by volume in drinks by distillation and pycnometry 4 - 50% v/v	SOP PALC 0001 Documented in-house method based on: Leatherhead F.R.A. Analytical Methods Manual (2nd Edition) - Determination of Ethyl Alcohol by Distillation
.10 Non-alcoholic beverages	The determination of fructose, glucose and sucrose by HPLC with refractive index detection Fructose 0.1 - 10.0% w/v Glucose 0.1 - 10.0% w/v Sucrose 0.1 - 10.0% w/v	SOP PALC 0005 Documented in-house method

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 Foods .15 Confectionery <i>Honey</i>	The determination of fructose, glucose and sucrose in honey 0.1 - 50% w/w Diastase number of honey 5-16 Diastase number Conductivity of Honey 1-6 mS.cm ⁻¹ pH of honey - 3.5-4.5 Acidity of honey, 5-50 meq/kg Insoluble matter in honey 0.1-0.11g/100g The determination of moisture in honey 10 - 30% The determination of 5-hydroxymethylfurfural (HMF) content of honey by HPLC with UV detection 10 - 2166 mg/kg	SOP PALC 0005 Documented in-house method SOP PALC 0113, by Phadebas, based on Harmonised Methods of the International Honey Commission 2002. SOP PALC 0114, as above Honey Commission, 2002. SOP PALC 0115, as above, Honey Commission, 2002. SOP PALC 0118, as above Honey Commission, 2002. SOP PALC 0086 as above Honey Commission, 2002. SOP PALC 0057 as above Honey Commission 2002.

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 Foods .10 Non-alcoholic beverages	The determination of benzoic acid and sorbic acid in non-alcoholic beverages by high performance liquid chromatography Benzoic acid 10 - 200 mg/l Sorbic acid 10 - 300 mg/l	SOP PALC 0008 based on VEMS Method, Code: F/0290, June 1994
.01 Dairy products .05 Fats and Oils .06 Soups broths and sauces .07 Cereals & bakery products .08 Fruit and vegetables .15 Confectionery	The determination of benzoic acid and sorbic acid in foods by steam distillation and high performance liquid chromatography Benzoic acid 50 - 2500 mg/kg Sorbic acid 50 - 2500 mg/kg	SOP PALC 0009 Documented in-house method based on: VEMS Method, Code: F/0290, June 1994
.03 Meat and meat products, game and poultry .08 Fruit and vegetables .10 Non-alcoholic beverages .11 Wine .12 Alcoholic beverages (other than wine) .15 Confectionery	The determination of sulphur dioxide in food and beverages by distillation and titrimetry 10 - 2500 mg/kg or mg/l	SOP PALC 0011 Documented in-house method 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
751 Foods .08 Fruit and vegetables	The determination of nitrate in lettuce and spinach by anion exchange high performance liquid chromatography 200 - 7500 mg/kg	SOP PALC 0015 Documented in-house method based on: I.S. EN 12014-2:1997
.10 Non-alcoholic beverages	The determination of aspartame, acesulfame-K and saccharin in non-alcoholic beverages by high performance liquid chromatography Aspartame 40 - 800 mg/l Acesulfame-K 20 - 400 mg/l Saccharin 10 - 200 mg/l	SOP PALC 0016 Documented in-house method based on: HPLC in Food Analysis, Ed. R. Macrae, 2nd Edition, 1988, P197 - 207
.01 Dairy products .06 Soups, broths and sauces .13 Ices and desserts .15 Confectionery	The determination of Aspartame Acesulfame-K and Saccharin in Selected foods by High Performance Liquid Chromatography Aspartame 40 - 1250 mg/kg Acesulfame-K 10 - 1250 mg/kg Saccharin 10 - 250 mg/kg	SOP PALC 0054 Documented in house method based on: I.S. EN 12856:1999

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INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 .04 .06	Foods Fish, shellfish and molluscs Fish, shellfish and fish products Soups (fish), broths and sauces	The determination of tyramine, putrescine, cadaverine, histamine, agmatine, phenylethylamine, spermidine and spermine by high performance liquid chromatography and fluorescence detection Tyramine 10 - 420 mg/kg(.04) 10-4000mg/kg(.06) Putrescine 10- 360 mg/kg(.04) 10-4000mg/kg (.06) Cadaverine 10 - 370 mg/kg(.04) 10-4000mg/kg(.06) Histamine 10 - 390 mg/kg(.04) 10-4000mg/kg(.06) Agmatine 10 - 390 mg/kg(.04) 10-4000mg/kg(.06) Phenylethylamine 10-510 mg/kg 10-4000mg/kg(.06) Spermidine 10 - 330 mg/kg(.04) 10-4000mg/kg(.06) Spermine 10 - 380 mg/kg(.04) 10-4000mg/kg(.06)	SOP PALC 0017 Documented in-house method based on: SOP for Biogenic Amines by HPLC, Torry Research Station, MAFF, Scotland
.10	Non-alcoholic beverages	The determination of caffeine in foodstuffs by high performance liquid chromatography (HPLC) and UV detection Leaf Tea 1- 88 g/kg Ground Coffee 1- 83 g/kg Liquid Samples 20 - 2008 mg/l	SOP PALC 0025 Documented In house method:Based on ISO 10095:1992(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
751 Foods .01 Dairy products .08 Fruit and vegetables .10 Non-alcoholic beverages .12 Alcoholic beverages (other than wine) .13 Ices and desserts .15 Confectionery	The determination of sucralose in foodstuffs by high performance liquid chromatography (HPLC) and refractive index detection Liquid Samples 50-997 mg/l Solid Samples 0.2-10.4 g/kg	SOP PALC 0026 Documented In house method: TDS for Splenda, Tate and Lyle
.03 Meat and meat products, game and poultry	Determination of sodium nitrite and sodium nitrate in meat and meat products by anion exchange high performance liquid chromatography 20-500 mg/kg	SOP PALC 0028 Documented in-house method based on: I.S. EN 12014-4:2005
.10 Non-alcoholic beverages	The determination of taurine in sports and energy soft drinks and infant formula or follow-on formula by HPLC with UV detection Sports and energy drink:10-200 mg/L	SOP PALC 0064 Documented in-house method based on: J Chem Ed 78 (6) 2001

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 Foods .18 Foodstuffs intended for special nutritional uses- infant formula and follow on formula	Infant and follow on formula range : 5-80 mg/l	
.03 Meat and meat products, game and poultry .06 Soups, broths and sauces	The determination of mono-sodium glutamate (MSG) in foodstuffs by high performance liquid chromatography with fluorescence detection and post column derivitisation Meat products, Ready made Soups and Sauces 2.5-26.1 g/kg Dried soup, condiments and Powdered samples 5.0-52.3 g/kg	SOP PALC 0030 Documented In house method: J.A.O.A.C. Int, 79(3): 697-702 (1996)

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
751 Foods .03 Meat and meat products, game and poultry Smoked meat .04 Fish, shellfish and molluscs Smoked fish .05 Fats and oils .09 Herbs and spices .14 Cocoa and Cocoa preparations, coffee, tea .18 Foodstuffs intended for special nutritional uses Infant formula baby foods	The determination of polycyclic aromatic hydrocarbons in food by gas chromatography and mass selective detection Cyclopenta[<i>cd</i>]pyrene Benzo[<i>a</i>]anthracene Chrysene 5-Methylchrysene Benzo[<i>b</i>]fluoranthene Benzo[<i>j</i>]fluoranthene Benzo[<i>k</i>]fluoranthene Benzo[<i>a</i>]pyrene Indeno[1,2,3- <i>cd</i>]pyrene Dibenzo[<i>a,h</i>]anthracene Benzo[<i>ghi</i>]perylene Dibenzo[<i>a,l</i>]pyrene Dibenzo[<i>a,e</i>]pyrene Dibenzo[<i>a,i</i>]pyrene Dibenzo[<i>a,h</i>]pyrene	Documented in-house method SOP PALC 0075
751 Foods .21 Others Food supplements	Ranges: Fats and oils: 0.9-20µg/kg Infant Formula: 0.2-20µg/kg Herbs and spices: 0.9-30µg/kg Smoked meat & fish: 0.9-20µg/kg Food supplements: 0.9-200µg/kg Brewed beverages: 0.2-2.0 µg/kg Raw Beverage: 1.0-10.0 µg/kg Baby foods: 0.2-10 µg/kg	Documented in-house method SOP PALC 0075

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
752 Residues in foods and agricultural materials .01 Elements	<p>The determination of mercury in food by cold vapour atomic absorption spectrophotometry 0.015-2.0 mg/kg or mg/l</p> <p>The determination of arsenic by hydride generation and atomic absorption 0.015-10 mg/kg or mg/l</p> <p>Determination of arsenic species in fish tissue by HPLC-ICPMS Arsenobetaine-0.2-4.12 mg/kg Dimethylarsinic acid - 0.13-1.0 mg/kg Monomethylarsinic acid 0.20-1.0 mg/kg Inorganic arsenic 0.20-2.0 mg/kg</p>	<p>Documented in-house methods: SOP PALC 0021</p> <p>SOP PALC 0023</p> <p>SOP PALC 0108, in house method based on US Environmental Protection Agency methods 3110 and 6879.</p>

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
752 Residues in foods and agricultural materials .01 Elements	Determination of Total Arsenic, Cadmium, Lead and Mercury in Food by Inductively Coupled Plasma Spectrometry Total Arsenic 0.04-25.0 mg/kg or mg/l Lead and Cadmium 0.04-10.0 mg/kg or mg/l	Documented in-house method: SOP PALC 0084
.99 Other Residues	The determination of 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
752 .05 Residues in foods and agricultural materials Mycotoxins Cereals, nut products, dried fruit and dried fruit products, shelled nuts, nuts, groundnuts, spices, seeds and baby foods	Aflatoxins B1, B2, G1 and G2 in food by immunoaffinity column extraction and HPLC Cereals, seeds, nut products, dried fruit and dried fruit products: 0.2 - 20 µg/kg Shelled nuts: 0.2 - 25 µg/kg Nuts and groundnuts in shell: 0.2-40 µg/kg Spices: 0.2-30 µg/kg Baby foods 0.05 - 20µg/kg (B1only)	Documented in-house methods: SOP PALC 0031
.05 Mycotoxins Maize-based foods and baby foods	The determination of Fumonisin B ₁ and B ₂ by in maize and maize products by immunoaffinity column extraction and high performance liquid chromatography (HPLC) Fumonisin B ₁ approx. 100-7780 µg/kg Fumonisin B ₂ approx. 50-8010 µg/kg Total Fumonisins approx. 150-15,790 µg/kg	SOP PALC 0076 Documented in-house method based on Application notes from R-Biopharm Rhone Ltd.

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
752 Residues in foods and agricultural materials Milk powder Milk	The determination of 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 Documented in-house method based on Application notes from R-Biopharm Rhone Ltd.
752 Residues in foods and agricultural materials .05 Mycotoxins Cereal products, dried fruits, wine, beer, coffee, baby foods liquorice spices grape juice	The determination of Ochratoxin A in foodstuffs by high performance liquid chromatography (HPLC) and fluorescence detection Cereals, Coffee, Dried fruit, Wine, Beer, Paprika, Chocolate, Chilli, Liquorices, Black/White pepper, nutmeg, ginger, tumeric 1-60 µg/kg Baby foods 0-30 µg/kg Red / White grape juice, 1-60 µg/L	SOP PALC 0018 Documented in-house method based on Application notes from R-Biopharm Rhone Ltd.

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
752 Residues in foods and agricultural materials .05 Mycotoxins Cereals, Cereal-based baby foods Tinned sweetcorn	The determination of Zearalenone in foodstuffs by immunoaffinity column extraction and HPLC with fluorescence detection Cereals 20-600 µg/kg Cereal-based baby foods 20-600 µg/kg Tinned sweetcorn 20-600µg/kg	SOP PALC 0022 Documented in-house method based on Application notes from R-Biopharm Rhone Ltd.
.05 Mycotoxins Cereals, cereal based baby food, pasta	The determination of deoxynivalenol by HPLC and fluorescence detection 50-4,000 µg/kg	SOP PALC 0081 Documented in-house method based on Application notes from R-Biopharm Rhone Ltd.

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
752 Residues in foods and agricultural materials .99 Other residues	The determination of furan in food by headspace GC-MS Solid foods furan (µg/kg) 5-10,000 Liquid foods Furan (µg/l) 5-1000	Documented in-house method: 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 Sweets, Biscuits and cakes Soy products , milk powder	The determination of Melamine in foodstuffs 1.5-150 mg/kg for sweets biscuits and cakes 1.5-5 mg/kg for soy products, milk powder	Documented in-house method: SOP PALC 0091 based on Waters application note 720002823EN
.99 Other residues <i>jarred foods including infant foods</i>	The determination of epoxidised Soybean Oil in food, food simulant 3-1000 mg/kg ESBO in food 30-12000 mg/kg ESBO in food simulant	Documented in-house method: SOP PALC 0039, documented in house method based on Castle, L., Sharman, M., and Gilbert, J. A.O.A.C. No.6., 71, 1183-1186 (1988)

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PUBLIC ANALYST'S LABORATORY

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Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters	The determination iron in water samples by flame a. a. spectrophotometry (routine method) with microwave digestion as necessary Fe 100-2000 µg/l	SOP PALCW 0001 In house method based on the examination of water and waste water, 20th edition; 1998, sections 3111 A,B
.01 Waters for potable and domestic purposes	The determination of ammonia, nitrate, total oxidised nitrogen and chloride content in water samples by continuous flow analysis NH4 0.05-1.0 mg/l N NO2 0.005-0.5 mg/l N TON 0.5-16.16 mg/l N CL 5.0-250.0 mg/l N	SOP PALCW 0002 In house method based on TRACCS Application method No GB-352 - 87 Rev 1, GB-371 - 88A

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Permanent Laboratory:
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Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters .01 Waters for potable and domestic purposes	Determination of the following by Automated colorimetric/turbidimetric analysis: Ammonium (as NH ₄) 0.05-1mg/L Chloride (as Cl) 4-250mg/L Nitrite (as NO ₂) 0.07-0.5mg/L TON (as NO ₃) 1.77-51mg/L Sulphate (as SO ₄) 1.61-250mg/l Alkalinity (as HCO ₃) 20-300mg/l Total Hardness (as CaCO ₃) 11.3-300 mg/L Colour (Pt-Co units) 1.7-90 Hazen	SOP PALCW 0021 using Thermoscientific Aquakem 250 discrete analyser manual
.01 Waters for potable and domestic purposes	The determination of hardness in water samples by continuous flow analysis 50-350 mg/l CaCO ₃ The determination of colour in water samples by continuous flow analysis 5-100 mg/l Pt-Co	SOP PALCW 0003 In house method based on TRACCS Application Method no. G-051 - 92A SOP PALCW 0004 In house method based on TRACCS Colrimetric method @ 400 nm

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Chemical Testing Laboratory

INAB Classification number (P9)	Type of test/properties measured	Standard specifications
Materials/products tested	Range of measurement	Equipment/techniques used
766 Waters .01 Waters for potable and domestic purposes	The determination of fluoride and sulphate in water by reagent free ion chromatography (RFIC) Sulphate 2-250 mg/l Fluoride 0.05-2.00 mg/l	SOP PALCW 0005 Documented in-house method based on the standard method for the examination of waters and waste waters 20 th edition, 1998, sections 4110 Determination of Anions by IC
.01 Waters for potable and domestic purposes	The determination of total metals in water samples by inductively coupled plasma/mass spectrometry (ICP-MS) Chromium 2-100 Cr µg/l Cadmium 1-50 µg/l Lead 1-50 µg/l Nickel 1-50 µg/l Copper 0.05-2.5 mg/l Iron 50-2500 µg/l Sodium 1-200 mg/l Calcium 1-200 mg/l Potassium 0.05-2.5 mg/l Magnesium 0.05-2.5 mg/l Aluminium 10-500 µg/l Antimony 1.2-50 µg/l Arsenic 1-50 µg/l Selenium 1-50 µg/l Manganese 10-500 µg/l Boron 50-2500 µg/l	Documented in-house method SOP PALCW 0006

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters .01 Waters for potable and domestic purposes	The measurement of the turbidity in waters Turbidity (NTU) 0.5-400 Determination of pH 4-10 Determination of conductivity 3-1270µS/cm at 20°C	SOP PALCW 0020 Documented in-house method based on Hach Turbidimeter Method. SOP PALCS 0040 in house method based on Jenway pH meter operation SOP PALCW 0019 in house method based on Jenway conductivity meter operation.
771 Biological Monitoring .02 Elements	Determination of Hg in blood by cold vapour AA spectrometry. 2.0-10.0 µg/l	SOP PALC 0085, based also on SOP PALC 0021.

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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
811 Microbiological tests on foods .01 Dairy products	Enumeration of presumptive E.coli in milk and milk products: colony count at 44°C using membranes	Documented in-house method: SOP PALM 0075 based on ISO 11866-2:2005
811 Microbiological tests on foods .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	Aerobic colony count (pour plate) at 30°C Aerobic colony count (spiral plate) at 30°C	SOP PALM 0001 based on ISO 4833:2003 (E) SOP PALM 0001 (S) based on ISO 4833:2003 (E)

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Biological Testing Laboratory

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological tests on foods .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	Enumeration of β -glucuronidase- positive E.coli by colony count at 44°C using TBX	SOP PALM 0026 based on ISO 16649-2:2001
811 Microbiological tests on food .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	Enumeration of <i>Bacillus cereus</i>	Documented in-house method: SOP PALM 0003(S) based on ISO 7932-2:2004

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological tests .04 on food Fish, shellfish and molluscs	Detection and enumeration of <i>Vibrio parahaemolyticus</i>	SOP PALM 0028 based on ISO TS 21872-1:2007
.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	Enumeration of Clostridium perfringens	SOP PALM 0006 based on ISO 7937:2004

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Public Analyst's Laboratory Biological Testing Laboratory

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Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological Tests on food .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	Enumeration of Enterobacteriaceae	SOP PALM 0009 based on ISO 21528-2:2004
.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	Enumeration of coagulase-positive staphylococci by RPF technique	Documented in-house method: SOP PALM 0061 based on ISO 6888-2: 1999

Scope of Accreditation



Public Analyst's Laboratory

Permanent Laboratory:

Biological Testing Laboratory

Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological tests on food .01 Dairy products .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	Detection of <i>Listeria monocytogenes</i> Enumeration of viable aerobic mesophilic flora using Tempo TVC. (excluding .08 Fruit and vegetables)	SOP PALM 0017 based on ISO 11290-1:1996/Amd.1:2004 SOP PALM 0079 based on AFNOR TEMPO TVC validation BIO 12/15-09/05
.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	Elfa Detection of Salmonella spp using VIDAS SLM Kit. Detection of salmonella spp	Documented in-house method: SOP PALM 4001 based on AFNOR 1994 method, (renewed 2002) Screening method. Cultural and confirmation aspects based on ISO 6579:2002 SOP PALM 0004 based on ISO6579:2002

Scope of Accreditation



Public Analyst's Laboratory Biological Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological Tests on Food .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 .09 Herbs and Spices .17 Prepared dishes	Elfa Detection of <i>Campylobacter</i> spp using VIDAS CAM kit. Detection of <i>Campylobacter</i> spp	Documented in-house method: SOP PALM 4003 based on manufacturer's instructions validated in-house screening method. SOP PALM 0023 based on ISO TS10272-1:2006
.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	Enumeration of <i>Listeria</i> spp and <i>L. monocytogenes</i> .	SOP PALM 0018(S) based on ISO 112990-2:1998/Amd.1:2004

Scope of Accreditation



Public Analyst's Laboratory

Permanent Laboratory:

Biological Testing Laboratory

Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
811 Microbiological Tests on Food .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	Enumeration of Escherichia coli in food products using TEMPO EC(E coli) test	Documented in house method SOP PALM 0005, AFNOR TEMPO EC Validation BIO 12/13-02/05

Scope of Accreditation



Public Analyst's Laboratory Biological Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<p>870 Waters including effluents</p> <p>.11 Bacteriological condition of potable waters</p> <p>.16 Bacteriological condition of environmental waters</p>	<p>Detection and enumeration of coliforms bacteria and <i>E.coli</i> in water by membrane filtration</p>	<p>Documented in-house method: SOP PALM 0100 based on the Microbiology of Drinking Water 2009, Part 4</p>
<p>.11 Bacteriological condition of potable waters</p> <p>.15 Bacteriological condition of swimming pools and spas</p>	<p>Enumeration of heterotrophic bacteria colony count technique at 22°C or 37°C</p> <p>Detection and enumeration of <i>Ps. aeruginosa</i> in water by membrane filtration</p>	<p>SOP PALM 0107 based on the Microbiology of Drinking Water 2007, Part 7</p> <p>SOP PALM 0106 based on the Microbiology of Drinking Water 2010, Part 8</p>

Scope of Accreditation



Public Analyst's Laboratory Biological Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870 Waters including effluents		Documented in-house method:
.11 Bacteriological condition of potable waters	Detection and enumeration of Enterococci in water by membrane filtration	SOP PALM 0102 based on ISO 7899-2:2000
.15 Bacteriological condition of swimming pools and spas	Detection of Salmonella spp in water	SOP PALM 0103 based on the Microbiology of Drinking Water 2006, Part 9
.16 Bacteriological condition of environmental waters		

Scope of Accreditation



Public Analyst's Laboratory

Permanent Laboratory:

Biological Testing Laboratory

Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870 Waters including effluents		Documented in-house method:
.11 Bacteriological condition of potable waters	Detection and enumeration of sulphite reducing clostridia and <i>Cl. perfringens</i> 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	Chromogenic/ Fluorogenic MPN enumeration of coliform and <i>E. coli</i>	SOP PALM 0108 based on the Microbiology of Drinking Water 2009.
.16 Bacteriological condition of environmental waters	using Colilert Quanti-Tray MPN.	

Scope of Accreditation



Public Analyst's Laboratory

Permanent Laboratory:

Biological Testing Laboratory

Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
870 Waters including effluents .11 Bacteriological condition of potable waters .15 Bacteriological condition of swimming pools and spas .16 Bacteriological condition of environmental waters	Detection of Salmonella spp using VIDAS SLM kit. Detection and Enumeration of thermotolerant <i>Campylobacter</i> spp. in water by the membrane filtration method	Documented in-house method: SOP PALM 4011 SOP PALM 0062 based on ISO 17995:2005
818 Microbiological tests for factory hygiene purposes .01 Surfaces Stick swabs	Detection of Salmonella spp Enumeration of Enterobacteriaceae Enumeration of β -glucuronidase-positive E.coli by colony count at 44°C using TBX Elfa detection of Salmonella spp using VIDAS SLM kit Enumeration of viable aerobic mesophilic flora using Tempo TVC.	SOP PALM 0004 based on ISO 6579:2002 SOP PALM 0009 based on ISO 21528-2:2004 SOP PALM 0026 based on ISO 16649-2:2001 SOP PALM 4001 based on AFNOR 1994 screening method, (renewed 2002) Cultural and confirmation aspects based on ISO 6579:2002 SOP PALM 0079 based on AFNOR TEMPO Validation BIO 12/15-09/05

Scope of Accreditation



Public Analyst's Laboratory Biological Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
818 Microbiological tests for factory hygiene purposes	Aerobic colony (Pour plate) at 30°C	SOP PALM 0001 based on ISO 4833:2003 (E)
.01 Surfaces Stick swabs	Aerobic colony count (spiral plate) at 30°C	SOP PALM 0001(S) based on ISO4833:2003(E)
	Elfa detection of Campylobacter spp. Using VIDAS CAM kit	SOP PALM 4003 based on manufacturer's specifications, validated in house screening method
	Detection of Campylobacter spp	SOP PALM 0023 based on ISO TS10272-1:2003
	Enumeration of Escherichia coli in food products using TEMPO EC(E coli) test	SOP PALM 0005 based on AFNOR TEMPO EC validation12/13-02/05