

# Accreditation Certificate

## Southern Scientific Services Ltd.

4 Park Business Centre, Tralee Road, Farranfore, Co. Kerry

Testing Laboratory

Registration number: **194T**

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 2<sup>nd</sup> Edition** “*General Requirements for the Competence of Testing and Calibration Laboratories*”  
***(This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)***

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Date of award of accreditation: **22:04:2008**

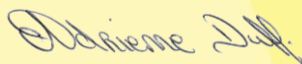
Date of last renewal of accreditation: **29:04:2013**

Expiry date of this certificate of accreditation: **29:04:2018**

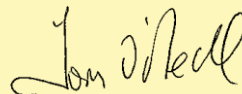
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This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager:



Chairperson:



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Dr Adrienne Duff

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Mr Tom O'Neill

Issued on 29 April 2013

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.  
[www.inab.ie](http://www.inab.ie) Web [inab@inab.ie](mailto:inab@inab.ie)

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:

Category A

## SOUTHERN SCIENTIFIC SERVICES LTD.

### Chemical & Biological Testing Laboratory

*Initial Registration Date :* 22-April-2008

*Postal Address:* 4 Park Business Centre, Tralee Road, Farranfore, Co. Kerry

Chemical Testing Laboratory:-  
4 Park Business Centre, Tralee Road, Farranfore, Co. Kerry

Biological Testing Laboratory:-  
Dunrine, Killarney, Co. Kerry

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*Contact Name:* Catriona Donovan

*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 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
- portable test equipment
  - a site laboratory
  - a mobile laboratory or
  - 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.

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
761 Agricultural products and materials		Documented in-house procedures based on the Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1 <sup>st</sup> November 2004
.22 Soils		
781 Constituents of the environment		
.31 Soils	pH Soil (water) 4-10 pH	SSP 021 The Rohasys pH Minilab, determination of water pH and Buffer pH in Soils
	SMP buffer pH 4-10 pH units, for determination of Lime Requirement by calculation	SSP 021 The Rohasys pH Minilab, determination of water pH, Buffer pH in Soils  Calculation by Chemical Analysis of Agricultural Material, An Foras Taluntais, 1979. SSP 021.

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
761 Agricultural products and materials		Documented in-house procedures based on the Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1 <sup>st</sup> November 2004
.22 Soils		
781 Constituents of the environment		
.31 Soils	Potassium - Soil 20-500 mg/L	SSP 022a Determination of Potassium in Morgan's Extracts (Flame photometric technique)
	Phosphorus - Soil 1.0-30 mg/L	SSP 022b Determination of Phosphorous in Morgan's Extracts (Spectro-photometric technique) - Lachat
	Organic Matter, 0.1-99.9%	Documented in-house procedure determined gravimetrically based on BS 7755 (1995), SSP 012 determination of Organic Matter.

# Scope of Accreditation



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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
761 Agricultural products and materials		Documented in-house procedures based on the Department of Agriculture - DAF Publication - Standard Soil Analysis for REPS - 1 <sup>st</sup> November 2004
.22 Soils		
781 Constituents of the environment		
.31 Soils	Phosphorus 0.5 - 300 mg/L	SSP 039a Determination of Extractable (Morgan's) Phosphorus by CFA Flowsys
	Potassium 10 - 5,000 mg/L	SSP 039b Determination of Extractable (Morgan's) Potassium by Sherwood Flamephotometer
	Phosphorus 0.25-20 mg/L	SSP 010 Spectrophotometric method Extracted with Morgan's Solution - Aquakem 250 auto Analyser

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
761 .22	Agricultural products and materials Soils	Determination of: Antimony 0.25 - 2500 mg/kg dw Arsenic 0.25-2500 mg/kg dw Barium 0.25 - 2500 mg/kg dw Cadmium 0.25 - 2500 mg/kg dw Chromium 0.25 -2500 mg/kg dw Copper 0.25 - 2500 mg/kg dw Cobalt 0.25 - 2,500 mg/Kg dw Iron 0.25 - 2,500 mg/kg dw Lead 0.25 - 2500 mg/kg dw Manganese 0.25 - 2,500mg/kg dw Mercury 0.025 - 5 mg/kg dw Molybdenum 0.25-2500 mg/kg dw Nickel 0.25 - 2500 mg/kg dw Selenium 0.5 - 2,500 mg/kg Zinc 0.50 - 2500 mg/kg dw Vanadium 0.5 - 2,500 mg/kg dw	Documented in-house method based on BS 7755 (1995). SCP 038 by ICP-MS.
781 .31	Constituents of the environment Soils	Determination of EDTA extracable: Copper 0.5- 15 mg/L Zinc 0.5 - 15 mg/L Easily reducible Manganese 5 - 750 mg/L	Documented in-house method based on Chemical Analysis of Agricultural Materials, An Foras Taluntais, 1979. SSP 038 by ICP-OES.

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
<b>766 Waters</b>		Documented in-house methods Spectrophotometry
.01 Waters for potable and domestic purposes	Determination of:	by Aquakem 250 Autoanalyser based on:
.06 Saline waters (SCP 027c, j, k only)	Ammonia 0.02-12 mg/L N (0.03 -15.4 mg/L NH <sub>4</sub> )	APHA, 4500NH <sub>3</sub> -G, 22 Ed., (2012). SCP 027a.
.08 WWTP Effluents	Chloride 0.5-600 mg/L Cl	APHA, 4500Cl-G, 22 Ed., (2012). SCP 027b.
.99 Other waters - Ground waters - Surface waters - Landfill Leachates	Orthophosphate 0.01-12 mg/L P (0.03 - 36.8 mg/L PO <sub>4</sub> )	APHA, 4500P-E, 22 Ed., (2012). SCP 027c.
	Sulphate 0.5-600 mg/L SO <sub>4</sub>	APHA, 4500SO <sub>4</sub> -F, 22 Ed., (2012). SCP 027d.
	Nitrite 0.005 - 10 mg/L N (0.016- 32.8 mg/L NO <sub>2</sub> )	APHA, 4500NO <sub>2</sub> -B, 22 Ed., (2012). SCP 027f.
	Nitrate 0.25-45 mg/L N (1.11 - 199 mg/L NO <sub>3</sub> )	APHA, 4500NO <sub>3</sub> -E, 22 Ed., (2012). SCP 027g.
	Alkalinity 5-800 mg/L CaCO <sub>3</sub>	HMSO, SCA, Method C. SCP 027g.
	Total Hardness 5-600 mg/L CaCO <sub>3</sub>	USEPA Method 138.1. SCP 027i.



# Scope of Accreditation



**Southern Scientific Services Ltd.**  
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**Chemical 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
<b>766 Waters</b>		Documented in-house methods Spectrophotometry by Aquakem 250 Autoanalyser based on:
.01 Waters for potable and domestic purposes		
.06 Saline waters (SCP 027c, j, k only)	Determination of:	APHA, 4500NO <sub>3</sub> -E 22 Ed., (2012) with application note 71395 Thermo Scientific (2014). SCP 027e.
.08 WWTP Effluents	Total Oxidised Nitrogen 0.2 - 50 mg/L N	
.99 Other waters	Saline ammonia 0.035 -0.4 mg/L N (0.045 - 0.51 mg/L NH <sub>4</sub> )	APHA, 4500NH <sub>3</sub> -G, 22 Ed., (2012) with application note D09161-01. SCP 027j.
	Saline TON 0.02- 5mg/L N	APHA 4500NO <sub>3</sub> -E 22 <sup>rd</sup> Ed., (2012) with application note D09727-3, Thermo Scientific 2014 SCP 027k

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
<b>766 Waters</b> .01 Waters for potable and domestic purposes .04 Sewage .05 Trade wastes .06 Saline waters .07 Bore waters .99 Other waters - <i>Ground waters</i> - <i>Surface waters</i> - <i>Effluents</i> - <i>Leachates</i>	Suspended Solids, 2-10,000 mg/L	Documented in-house methods based on APHA, 2540D, 22 Ed., (2012) SCP 010 - Determination of Total Suspended Solids (103° C - 105° C). Determined gravimetrically

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
<b>766 Waters</b>  .01 Waters for potable and domestic purposes .04 Sewage .05 Trade wastes .06 Saline waters .07 Bore waters .99 Other waters - Ground waters - Surface waters - Effluents - Leachates	Chemical Oxygen Demand, 10-30,000 mg/L	Documented in-house methods based on APHA, 5520D, 22 Ed., (2012)  SCP 016 - Determination of Chemical Oxygen Demand - Colorimetric method
.01 Waters for potable and domestic purposes  .05 Trade wastes .07 Bore waters	Colour 5-500 Pt-Co	Documented in-house methods based on APHA, 2120C, 22 Ed., (2012) SCP 018 - Determination of Colour by Spectrophotometry

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
<b>766 Waters</b>  .01 Waters for potable and domestic purposes .04 Sewage .05 Trade wastes .06 Saline waters .07 Bore waters .99 Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm waters	pH 4-10 pH	Documented in-house methods based on APHA, 4500B-H <sup>+</sup> , 22 Ed., (2012)  SCP 035 pH Meter, pH determination using the Metrohm Automated pH system
.01 Waters for potable and domestic purposes .04 Sewage .05 Trade wastes .07 Bore waters .99 Other waters - Ground waters - Surface waters - Effluents - Leachates - Storm waters	Manganese 1-10,000 µg/L Mn Iron 5-10,000 µg/L Fe Copper 1-10,000 µg/L Cu Zinc 8-10,000 µg/L Zn Lead 1-10,000 µg/L Pb Nickel 1-10,000 µg/L Ni Chromium 1-10,000 µg/L Cr Cadmium 0.45-10,000 µg/L Cd Aluminium 10-10,000 µg/L Al	Documented in-house methods based on APHA, 3125B, 22 Ed., (2012). SCP 038 - Determination of metals by ICP-MS

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
766 Waters		Documented in-house methods based on APHA, 4500N, 22 Ed., (2012).
.04 Sewage	Total Nitrogen	SCP 043 Determination by Digestion/ Spectrophotometry (HACH DR3900)
.05 Trade waste	1 - 10,000 mg/L N	APHA 4500-N
.06 Saline waters		SCP 044 Determination by Digestion/ Spectrophotometry (HACH DR3900)
.99 Other waters	Total Phosphorus	APHA 4500-P
	0.04 - 100 mg/L P	

# Scope of Accreditation



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**Chemical 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
766 Waters		Documented in-house methods based on APHA, 5540C, 22 Ed., (2012).
.05 Trade wastes	Determination of Anionic Detergents	SCP 055 - Determination of Detergents in Water, Wastewater & Seawater by HACH Spectrophotometry
.06 Saline waters	0.01 - 1.25 mg/L LAS	
.07 Bore wates		
.08 WWTP Effluent		
.99 Other waters <i>Ground waters</i> <i>Surface waters</i> <i>Waste wates</i> <i>Effluents</i>		

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
766 Waters		Documented in-house methods based on APHA, 4500B-H <sup>+</sup> & 2510B, 22 Ed., (2012)
.01 Waters for potable and domestic purposes	pH 4-10 pH units	SCP 052 -Determination of pH & Conductivity using Rohasys minilab
.05 Trade wastes	Conductivity 14.7 -111,900 µS/cm @ 20°C	
.07 Bore waters		
.08 WWTP Effluent	Antimony 1-10,000 µg/L Arsenic, 1-10,000 µg/L	Documented in-house methods based on APHA, 3125B, 22 Ed., (2012)
.99 Other waters - <i>Ground waters</i> <i>Surface waters</i> <i>Waste water</i> <i>Effluents</i> <i>Landfill Leachate</i>	Mercury 0.5 - 20 µg/L Selenium 5 - 10,000 µg/L Cobalt 1-10,000 µg/L Molybdenum 5 - 10,000 µg/L	SCP 038 - Determination of metals by ICP-MS

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
<b>766 Waters</b>  .01 Waters for potable and domestic purposes .04 Sewage .06 Saline waters .99 Other waters -Ground waters -Surface waters -Effluents -Leachates	Determination of: BOD 1-32,000 mg/L O <sub>2</sub>	Documented in-house methods based on APHA, 5210B, 22 Ed., (2012). SCP 015 - Determination of Biochemical Oxygen Demand
<b>781 Constituents of the environment</b>  .41 Atmospheric dust fall	Determination of Dustfall	SCP 039 using Bergerhoff Dust Gauge. Documented in-house procedure based on VDI 4320 Part 2 Measurement of Atmospheric Dust Depositions
<b>766 Waters</b>  .01 Waters for potable and domestic purposes  0.99 Other waters - Ground waters Surface waters	Determination of Turbidity 0.2 - 20 NTU	Documented in-house procedure based on APHA 2130B 22 <sup>rd</sup> Ed., (2012). SCP 058 by Nephelometry.



# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
<b>766 Waters</b>  .01 Waters for potable and domestic purposes  0.99 Other waters - <i>Ground waters</i> <i>Surface waters</i>	Determination of: Calcium 1 - 250 mg/L Sodium 1 - 250 mg/L Potassium 1 - 100 mg/L Magnesium 0.2 - 50 mg/L	Documented in-house procedure, based on APHA 3120B 22 <sup>rd</sup> Ed., (2012). SCP 053a by ICP-OES
<b>766 Waters</b>  .01 Waters for potable and domestic purposes  0.99 Other waters - <i>Ground waters</i> <i>Surface waters</i>	Determination of: Cadmium 2 - 1,000 µg/L Copper 2 - 1,000 µg/L Chromium 1 - 1,000 µg/L Iron 10 - 1,000 µg/L Lead 2- 1,000 µg/L Manganese 2- 1,000 µg/L Nickel 2- 1,000 µg/L Zinc 10- 10,000 µg/L	Documented in-house procedure based on APHA 3120B 22 <sup>rd</sup> Ed., (2012). SCP 053b by ICP-OES.

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Farranfore)**  
**Chemical 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
<b>766 Waters</b>  .01 Waters for potable and domestic purposes  .06 Saline wastes  .08 WWTP Effluent  .99 Other waters - <i>Ground waters</i> <i>Surface waters</i> <i>Waste water</i> <i>Effluents</i> <i>Landfill Leachate</i>	Determination of Total Kjeldahl Nitrogen by Calculation	Documented in-house procedure based on APHA 4500N-C & 4500NO <sub>3</sub> -H 22 <sup>rd</sup> Ed., (2012). SCP 057.

# Scope of Accreditation



## Southern Scientific Services Ltd. (Farranfore) Chemical 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
761 Agricultural products and materials .22 Soils	Determination of: Cobalt 0.5-2500 mg/kg dw Manganese 0.5-2500 mg/kg dw	Documented in-house procedure based on BS 7755 (1995). SCP 053b by ICP-OES
781 Constituents of the environment .31 Soils		
756 Drugs & Pharmaceuticals .01 Drugs -Aqueous  -Solids	Determination of:  Arsenic 1.0 - 1000 µg/L Cadmium 0.45 - 1000 µg/L Lead 1.0 - 1000 µg/L Mercury 0.5 - 20 µg/L  Arsenic 1.0 - 1000 µg/g Cadmium 0.04 - 1000 µg/g Lead 0.07 - 1000 µg/g Mercury 1 - 20 µg/g	Documented in-house procedure based on USP 233 (2013) & USP 38. SCP-059 by ICP-MS.

# Scope of Accreditation



## Southern Scientific Services Ltd. (Dunrine) 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 foods		
.04 Fish, shellfish and molluscs	Horizontal Method for the detection of salmonella spp	SMP 094 (ISO 6579:2002/Amd.1:2007)
.04 Fish, shellfish and molluscs .17 Prepared dishes	Horizontal Method for the detection of listeria monocytogenes	SMP 095 (ISO 11290-1:1996/Amd.1:2004)
.04 Fish, shellfish and molluscs .17 Prepared dishes	Horizontal Method for the enumeration of listeria monocytogenes	SMP 096 (ISO 11290-2:1998/Amd.1:2004)
.17 Prepared dishes	Horizontal Method for the detection of salmonella spp	SMP 094 (ISO 6579:2002/Amd.1:2007)

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Dunrine)**  
**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
<b>811 Microbiological tests on foods</b> .04 Fish, shellfish and molluscs	Enumeration of <i>E. coli</i> by The Multiple Tube Method	Documented in house method: SMP 018 Enumeration of <i>E. coli</i> in molluscan bivalve shellfish based on ISO/TS 16649-3: 2015 & CEFAS standard operating procedure, Issue No. 4: 15105103
<b>811 Microbiological tests on foods</b> .04 Fish, shellfish and molluscs .17 Prepared dishes	Enumeration of Coagulase Positive Staphylococci - Colony Count Technique.	Documented in house method: SMP 063 - based on ISO 6888-2:1999, Microbiology of animal feedingstuffs- Horizontal methods for the enumeration of Coagulase Positive Staphylococci ( <i>Staphylococci aureus</i> and other species) Part-2. <i>Staph aureus</i>

# Scope of Accreditation



## Southern Scientific Services Ltd. (Dunrine) 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	Enumeration of coliforms and E.coli by the colilert method	SMP 019 Enumeration of coliforms and <i>E.coli</i> by the colilert method based on - ISO 9308-2:2012
.15 Bacteriological condition of swimming pools and spas		Water Quality - Enumeration of <i>E.coli</i> and Coliform bacteria Part 2: Most Probable Number (MPN)
.16 Bacteriological condition of environmental waters		- The Microbiology of Drinking Water (2009) - Part 4 Methods for the isolation and enumeration of Coliform Bacteria and <i>E.coli</i>
.25 Waste water treatment plant effluent (WWTP effluent)		
.99 Others - Marine waters - Waste Water - Effluents		

# Scope of Accreditation



**Southern Scientific Services Ltd.**  
**(Dunrine)**  
**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
<b>870</b> <b>Waters, including effluents</b>  <b>.01</b> <i>- Waters for potable and domestic purposes</i>	Enumeration of Enterococci by the Enterolert method	Documented in-house method based on the Microbiology of Drinking water(2012) Part 5 & Idexx Enterolert protocol. SMP 068 by Probable Number (MPN)