

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>Accredited to ISO/IEC 17025:2017</b>	<b>Technological Laboratory of Uruguay</b>  <b>Issue No: 084 Issue date: 15 January 2025</b>	
	<b>Av. Italia 6201 C.P. 11500 Montevideo Uruguay</b>	<b>Contact: Ms Monica Trias Tel: +598 2 601 3724 Int 1228 E-Mail: mtrias@latu.org.uy Website: www.latu.org.uy</b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Av. Italia 6201 C.P. 11500 Montevideo Uruguay	<b>Local contact</b> Ms Monica Trias  Tel: +598 26013724 int 1228 Email: mtrias@latu.org.uy Website: www.latu.org.uy	<u>Testing:</u> Chemical Microbiological Performance Physical Flexible Scope Management  <u>Sampling:</u> Waters and sediments (for Chemistry and Microbiology testing)  <u>Sampling and Testing:</u> Stack Emissions Testing	Lab (see below)
<b>Address</b> Rio Negro: Parque Industrial Municipal Barrio Anglo Fray Bentos Uruguay	<b>Local contact</b> Ms Monica Trias  Tel: +598 26013724 int 1228 Email: mtrias@latu.org.uy Website: www.latu.org.uy	<u>Testing:</u> Chemical Microbiological Performance Physical  <u>Sampling:</u> Waters and sediments (for Chemistry and Microbiology testing)	Lab (see below)



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Each Department is identified with an internal code (Montevideo main lab unless otherwise indicated):

AGROPEC	Analysis of Agricultural Products Department includes: Milk/Dairy, Meat, Fruit, Vegetables and Honey Products Natural toxins
CEMIC	Cereals, Oils and Derived Products
COMB	Alcohols and Derivatives
CROMA	Analytical Methods Development
ESPEC	Atomic spectrometry
MAFB	Environmental Monitoring Water Quality at Fray Bentos
MAM	Stack Emissions Sampling and Testing
MIC	Microbiology
MICFB	Microbiology at Fray Bentos
PQAR	Water Quality and Environmental Evaluation

**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
Environmental sites, managed from Montevideo or Fray Bentos	Sampling waters and sediments	Site (MUA)
Customer sites where stack emissions are sampled managed from Montevideo	Stack Emissions Sampling	Site (MAM)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEED, FOOD & FOOD PRODUCTS (including herbs and spices, milk and dairy products), WATER and EFFLUENTS	The laboratory holds a flexible scope of accreditation for methods listed on the schedule covering the following:	Documented in-house method:	
	Introduction of new versions of existing accredited standard and customer-specified test methods in accordance with documented in-house procedure PRD.GAC.037	Management, Principles and Procedures for Flexible Scopes of Analysis PRD.GAC.037 using existing fixed scope screening and detection measurement principles	Labs - AGROPEC, CEMIC, CROMA, COMB, ESPEC MIC, MICFB, MAFB, PQAR
	Transfer currently accredited test methods between the accredited departments and locations listed on this schedule and using techniques and instruments that appear on the fixed scope	Management, Principles and Procedures for Flexible Scopes of Analysis PRD.GAC.037 using existing fixed scope screening and detection measurement principles	Labs - MIC & MICFB
ANIMAL FEED, FOOD & FOOD PRODUCTS (including herbs and spices, milk and dairy products)	Sample types/analytes within the scope of any individual method with accreditation already held	Management, Principles and Procedures for Flexible Scopes of Analysis PRD.GAC.037 using the listed existing extraction and measurement principles: gravimetry, titrimetry, volumetric, conductivity, potentiometry, colorimetry, refractometry, spectrophotometry/ photometry UV/Vis, Gas Chromatography (GC- FID, GC-ECD, GC-MS, GC-MS/MS) High Performance Liquid Chromatography (HPLC-DAD, HPLC-ELSD HPLC-FLD. LC-MS, LC-MS/MS, HPLC RID), ICP-MS, ICP-OES, AAS	Labs - AGROPEC CEMIC CROMA COMB ESPEC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MILK and DAIRY PRODUCTS as specified	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Moisture		PEC.AGROPEC.037 based on:  ISO 3727-1/IDF 80-1:2001  ISO 5534/IDF 4:2004  IDF 26A:1993  ISO 6731/IDF 21:2010  ISO 6734/IDF 15:2010	Lab - AGROPEC
Butter Butter Oil Cheese			
Dried Milk, Milk Powders, Dried Cheese, Whey Powder			
Milk (liquid) Skimmed Milk (Milk solids not fat)			
Dulce de Leche			
MILK and DAIRY PRODUCTS as specified:	Fat acidity	PEC.AGROPEC.137 based on:  AOAC Official Methods of Analysis 969.17:1974 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC
Butter Butter Oil			
Dried Milk, Milk Powders, Whey Powder	Ash	PEC.AGROPEC.040 based on:  AOAC Official Methods of Analysis 930.30:1930 2023 22 <sup>nd</sup> Edition  AOAC Official Methods of Analysis 930.30:1930 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC
Milk, Dulce de Leche			
Dried whey and dry milk	Insolubility index at 24°C	PEC.AGROPEC.175 based on ISO 8156/IDF 129:2005	Lab - AGROPEC
Milk powders and whey powders	Scorched particles	PEC.AGROPEC.175 based on American Dairy Products Institute Dairy Products Standards	Lab - AGROPEC



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MILK and DAIRY PRODUCTS as specified: (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Dried Milk Whey Dried, Whey and Whey Butter, Cheese, Milk (liquid)	Fat (Milk fat in dry matter)	PEC.AGROPEC.159 (Gravimetric Method) based on ISO 23318/IDF 249:2022	Lab - AGROPEC
Milk (liquid)	Fat (Milk fat in dry matter)	PEC.AGROPEC.163 (Butyrometric Method)	Lab - AGROPEC
Cheese, Dried Cheese		ISO11870/IDF 152:2009, ISO3433/ IDF222:2008	Lab - AGROPEC
Dulce de Leche	Fat	ISO11870/IDF 152:2009, ISO3433/ IDF222:2008	Lab - AGROPEC
Dried Milk, Whey Powder	Acidity (titratable)	PEC.AGROPEC.043 based on: ISO 6091/IDF 86:2010	Lab - AGROPEC
Milk (liquid), Cream		PEC.AGROPEC.043 based on: AOAC Official Methods of Analysis 947.05:1947 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC
Dairy Products	Nitrogen (Protein by Calculation) Milk protein in milk solids not fat	PEC.AGROPEC.172 based on: ISO 8968-1/IDF 20-1:2014	Lab - AGROPEC
Cheese	pH	PEC.AGROPEC.177 based on: BS 770. Part 5:1976. British Standard Methods for Chemical Analysis of cheese Determination of pH value	Lab - AGROPEC
Milk and Dairy Products		Standard Methods for the Examination of Dairy Products, Chapter 15, 2004, 17 <sup>th</sup> Edition	



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ANIMAL FEED, FOOD & FOOD PRODUCTS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Food (General)	Ash	PEC.AGROPEC.040 based on Kirk Ronald S., Sawyer R. Pearson's composition and analysis of foods. 9th edition, 1991, page.13	Lab - AGROPEC
Spices and condiments	Ash	ISO 928:1997	
Apple juice, concentrate, puree	Patulin	PEC.AGROPEC.080 Based on AOAC International Official Methods of Analysis of AOAC International., 2019, Gaithersburg: AOAC Official Method 995.10:1999, 2023 22 <sup>nd</sup> Edition	
Foods and food products (excluding cereal and dairy products) which require drying under reduced pressure	Moisture	PEC.AGROPEC.109 by vacuum oven drying, based on ISO 1026:1982	Lab - AGROPEC
Honey	Hydroxymethyl-furfural	PEC.AGROPEC.197 based on Harmonised methods of the International Honey Commission 2009, chapter 5 Determination of hydroxymethylfurfural by HPLC	Lab - AGROPEC
Honey	Moisture	PEC.AGROPEC.004 refractometric method based on AOAC Official Methods of Analysis 969.38:1969 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC



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ANIMAL FEED, FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Honey	Total Acidity	PEC. AGROPEC.001 method based on AOAC Official Methods of Analysis 962.19:1977 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC
Sugar	Colour	PEC.AGROPEC.059 Based on - International Commission for Uniform Methods of Sugar Analysis / ICUMSA Methods Book. Berlin: Bartens, 2005, ICUMSA Supplement 2011	Lab - AGROPEC
MEAT AND MEAT PRODUCTS FOOD and ANIMAL FEED HONEY	Ash	PEC.AGROPEC.040 using muffle furnace based on ISO 936:1998 ISO 5984:2022 International honey commission 2009 method 3	Lab - AGROPEC
	Moisture	PEC.AGROPEC.037 air drying based on AOAC Official Methods of Analysis 950.46:1991 2023 22 <sup>nd</sup> Edition	Lab - AGROPEC
	Nitrogen Moisture:protein ratio	PEC.AGROPEC.172 by Kjeldahl based on ISO 937:2023	Lab - AGROPEC
FRUIT and VEGETABLE PRODUCTS	Soluble Solids	PEC.AGROPEC.126 based on ISO 2173:2003	Lab - AGROPEC
	pH	PEC.AGROPEC.177 based on ISO 1842:1991	Lab - AGROPEC



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FRUIT and VEGETABLE PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Fruit, fruit juices and vegetables	Pesticide residues as given in tables at end of Schedule	PEC.CROMA.019 based on QuEChERS extraction and gas chromatography electron capture detection (GC-ECD), gas chromatography mass spectrometry and/or tandem mass spectrometry (GC-MS; GC-MS/MS) and high performance liquid chromatography using fluorescence detection (LC-FLD) and/or tandem mass spectrometry (LC-MS/MS)	Lab-CHROMA
Fruit and fruit juices	Table 1 Pesticides by GC-ECD Table 2 Pesticides by GC-MS Table 3 Pesticides by LC-FLD  Table 4 Pesticides by LC-MS/MS Table 5 Pesticides by GC-MS/MS		
Milk and whey	Chlorate and perchlorate	PEC.CHROM.060 using matrix dispersive extraction (QuPPe) and LC-MS/MS	Lab-CHROMA





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FOOD & FOOD PRODUCTS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Cereals, Oilseeds and by products	Crude Protein – Combustion Method	PEC.CEMIC.CER.210 / AOAC 992.23,2019,21 <sup>st</sup> edition	Lab - CEMIC
Cereals, oilseeds and their products	Moisture	PEC.CEMIC.001 ISO 712:2009 ISO665:2020 ISO 6540 2021 EBC 3.2 1997 EBC 4.2 2000 AACC 44-15A 1999 10 <sup>TH</sup> Ed 2000 AOCS Ac 2-41:2017	Lab - CEMIC
FOODS, GRAINS AND CEREAL PRODUCTS	Water activity	PEC.CEMIC.CER.501/ ISO 18787:2017	Lab - CEMIC
Cereals, cereal products, Oilseeds and by products,	Crude Protein – Kjeldahl method	PEC.CEMIC.003 based on ISO 5983-1:2005/Cor.1:2008, ISO 20483:2013, EBC 3.3.1 2004 and 4.3.1:2004	Lab - CEMIC
RICE	Classification of Rice: Broken grains Chalky grains Impurities (Foreign Matter) Paddy grains Red rice Stained grains	PEC.CEMIC.CER.010 based on Decreto MGAP No 544/987 and 321/988	Lab - CEMIC
Rice quality testing	Brown Rice, Mill Rice, Broken grains, Colour SATAKE, Head rice yield.	PEC.CEMIC.CER.009 / Decreto MGAP N° 544/987 y 321/988	Lab - CEMIC
Cereals, oilseeds and their products	Extractable matter (Fat) Fat Oil content	PEC.CEMIC.CER.504 using Soxtec solvent extraction system based on ISO 11085:2015, ISO 659:2009	Lab - CEMIC



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Oils and Fats (Grease)	Peroxide Index	PEC.CEMIC.CER. 401 based on AOCS Cd 8B-90:2017	Lab - CEMIC
Oils and Fats (Grease)	Specific UV extinction at 232nm and 268nm	PEC.CEMIC.CER.423 based on AOCS Ch5-91:2018 and COI/T20/DocNo 19	Lab - CEMIC
Oils and Fats (Grease)	Free Fatty Acids	PEC.CEMIC.CER. 402 based on AOCS Ca 5a-40: 2017 and COI/T.20/Doc.Nº3 4 and ISO 660:2020	Lab - CEMIC
Oils and Fats (Grease)	Moisture	PEC.CEMIC.CER. 406 based on ISO 662:2016	Lab - CEMIC
Wheat flour	Iron	PEC.CEMIC.CER.214 based on AACC Method 40-41B:1999,10 <sup>th</sup> Edition 2000 and AOAC 944.02:1993, 2019 21 <sup>st</sup> Edition	Lab - CEMIC
Dairy products including Cheese, Milk, Milk powders, Liquid Dairy Products (flavoured milks, yoghurt) and dairy desserts (Pudding)	Aflatoxin M <sub>1</sub>	PEC.AGROPEC.075 Extraction using immunoaffinity column clean up. HPLC based on ISO14501:2021 using fluorescence detection	Lab - AGROPEC
Nuts, Grains and Dried Fruit including By-products and Finished products for all. Animal Feeds	Aflatoxin B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub>	PEC.AGROPEC.053 based on immunoaffinity column clean up. HPLC based on AOAC Official Methods of Analysis 991.31:1994 and 994.08: 1997, 2023 22 <sup>nd</sup> Edition using HPLC and fluorescence detection	Lab - AGROPEC



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Documented In-House Methods identified by method number based on standard methods	
Grains including By-products and Finished products, Animal Feeds	Deoxynivalenol (DON)	PEC. AGROPEC.063 extraction based on AOAC Official Methods of Analysis, 986.17:1990 2019, 2023 22 <sup>nd</sup> Edition or Immunoaffinity column clean up. HPLC based on Journal of Association of Official Analytical Chemists 70(3), 1987, 479-483 using PDA detection	Lab - AGROPEC
Nuts, Grains and Dried Fruit, including By-products and Finished products for all. Coffee, Grapes and Animal Feeds	Ochratoxin A	PEC.AGROPEC.076 based on immunoaffinity column clean up HPLC based on Analytica Chimica Acta 566 2006:117-121 using HPLC and fluorescence detection	Lab - AGROPEC
Edible Iodized Salt	Iodine	PEC.PQAR.910 by titration based on Rosin J, 1967. Reagent Chemicals and Standards. Potassium Iodate, pgs. 383-384. D. Van Nostrand Company Inc., 5th ed. New York	Lab - PQAR
Olive Oil	Stigmasta-3,5-diene	PEC.COMB.026 based on AOAC Method Cd 26-96, 2017 7 <sup>th</sup> Edition	Lab - COMB
Herbs	Arsenic, Cadmium and Lead	PEC.ESPEC.014 based on US FDA Method 4.4 Version 1.1:2015 using Inductively Coupled Plasma-Atomic Emission Spectrometric Determination using Block and Microwave Assisted Digestion	Lab - ESPEC



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Food and Food Products	Arsenic, Cadmium and Lead	PEC.ESPEC.022 based on US FDA Method 4.7 Version 1.2:2020 using Inductively Coupled Plasma-Mass Spectrometric Determination using Block and Microwave Assisted Digestion	Lab - ESPEC
Bakery products fortified with iron	Iron	PEC.ESPEC.014 based on AOAC Official Method 2011.14 using Block and Microwave Assisted Digestion and Inductively Coupled Plasma-Optical Emission Spectrometry	Lab - ESPEC
Candies and sugar products	Copper	PEC.ESPEC.022 based on US FDA Method 4.7 Version 1.2:2020 Inductively Coupled Plasma-Mass Spectrometric using Block and Microwave Assisted Digestion	Lab - ESPEC
Food and Food products	Sodium	PEC.ESPEC.014 based on AOAC Official Method 2011.14 using Block and Microwave Assisted Digestion and Inductively Coupled Plasma-Optical Emission Spectrometry	Lab - ESPEC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD & FOOD PRODUCTS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated	<u>Microbiological Tests</u>	Documented In-House Methods identified by method number based on standard methods	
	Detection:		
	<i>Listeria spp</i>	PEC.MIC.022 based on ISO 11290-1: 2017 (retaining 48h incubation of selective enrichment broths)	Lab - MIC
	<i>Listeria monocytogenes</i>	PEC.MIC.022 based on ISO 11290-1: 2017 (retaining 48h incubation of selective enrichment broths)	Lab - MIC
	<i>Listeria monocytogenes</i>	PEC.MIC.066 using selective culture enrichment and presumptive detection by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system, AOAC RI 010802, with biochemical confirmation using PEC.MIC.022 if required	Lab - MIC
	<i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system, AOAC RI 121402 with confirmation using PEC.MIC.022 if required	Lab - MIC



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FOOD & FOOD PRODUCTS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Dairy Products	Detection: (cont'd)		
	<i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system, AOAC RI 121402 with biochemical confirmation using PEC.MIC.022 (performed at Lab –MIC if required)	Lab - MICFB
	<i>Salmonella</i> spp	PEC.MIC.023 based on ISO 6579-1:2017+A1:2020	Lab - MIC
	<i>Salmonella</i> spp	PEC.MIC.065 using selective culture enrichment and presumptive detection by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system by real time PCR AOAC OMA 2017.06 PTM 010803, with serological and biochemical confirmation using PEC.MIC.023 if required	Lab - MIC
Food & Food Products	<i>Salmonella</i> spp	PEC.MIC.024 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR System, AOAC OMA Official methods No 2013.02, with serological and biochemical confirmation using PEC.MIC.023 if required	Lab - MIC



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FOOD & FOOD PRODUCTS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Dairy Products	Detection: (cont'd)  <i>Salmonella</i> spp	PEC.MIC.024 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR System, AOAC OMA Official methods No 2013.02, with serological and biochemical confirmation using PEC.MIC.023 i (performed at Lab –MIC if required)	Lab - MICFB
Meat and Meat Products and Poultry	Presumptive <i>Escherichia coli</i> O157 H7 and Presumptive <i>E. coli</i> O157:H7/NM	PEC.MIC.067 using selective culture enrichment and presumptive detection by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system by real time PCR and AOAC RI 020801	Lab - MIC
Meat and Meat Products and Poultry	Presumptive <i>Escherichia coli</i> O157 H7 and Presumptive <i>E. coli</i> O157:H7/NM	PEC.MIC.027 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system and AOAC RI 031002	Lab – MIC
Meat and Meat Products and Poultry	Confirmation of <i>Escherichia coli</i> O157:H7	PEC.MIC.032 using Biochemical and Serological tests based on USDA Microbiology Laboratory Guidebook 5.09 after presumptive detection using method PEC.MIC.067 or PEC.MIC.027 Real Time PCR	Lab - MIC



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FOOD & FOOD PRODUCTS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Detection: (cont'd)			
Raw meat	Shiga Toxin-Producing <i>Escherichia coli</i> (STEC) by detection of STX1, STX2 and EAE gene sequences in serogroups O26, O45, O103, O111, O121, O157 and O145	PEC.MIC.064 and PEC.MIC.049 based on USDA FSIS MLG 5B.05 by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system AOAC RI 121203 screening using iQ-Check STEC VirX and confirmation of serogroups using iQ-Check STEC SerO II Kit	Lab - MIC
Raw meat	Shiga Toxin-Producing <i>Escherichia coli</i> (STEC) by detection of STX1, STX2 and EAE gene sequences in serogroups O26, O45, O103, O111, O121, O157 and O145	PEC.MIC.043 and PEC.MIC.049 based on USDA FSIS MLG 5B.05 using BAX real-time PCR system for screening AOAC RI 091301 and confirmation; immunomagnetic separation (IMS) for specific serogroups; culture on modified Rainbow agar; DEC confirmation PCR kit for STX1, STX2 and EAE with visualisation using gel electrophoresis; API20E	Lab - MIC





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**Technological Laboratory of Uruguay**  
**Issue No: 084    Issue date 15 January 2025**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD & FOOD PRODUCTS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
	Enumeration:		
	Aerobic colony count at 35.5 °C for 48h	PEC.MIC.029 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> Edition, 2015	Lab - MIC
	Aerobic colony count	PEC.MIC.038 using Biomerieux TEMPO AC (AOAC tested Method Certificate N°121204)	Lab - MIC
Meat and Meat products and Dairy	Aerobic colony count at 30 °C for 72h	PEC.MIC.029 based on ISO 4833-1:2013+A1:2022	Lab - MIC
Dairy products	Aerobic colony count at 30 °C for 72h	PEC.MIC.029 based on ISO 4833-1:2013+A1:2022	Lab - MICFB
Milk Powder	Aerobic colony count at 35.5°C	PEC.MIC.029 based on Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> edition, 2015	Lab - MICFB
FOODS including cereals products, dairy products and ready to eat foods	<i>Bacillus cereus</i> (presumptive)	PEC.MIC.025 based on ISO 7932:2004 and Amd 2020	Lab - MIC
	Total Coliforms	PEC.MIC.036 using Biomerieux TEMPO TC	Lab - MIC
	Total Coliforms and Thermotolerant (Faecal) Coliforms	PEC.MIC.028 using MPN based on APHA Compendium of Methods for the Microbiological Examination of Foods 5 <sup>th</sup> Edition, 2015	Lab - MIC Lab - MICFB
	Total Coliforms	PEC.MIC.059 based on ISO 4832:2006	Lab - MIC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD & FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
	Enumeration: (cont'd)		
Milk Powder	Enterobacteriaceae	PEC.MIC.031 based on ISO 21528-2:2017	Lab - MICFB
Meat and Meat products and Dairy	Enterobacteriaceae	PEC.MIC.031 based on ISO 21528-2: 2017	Lab - MIC
Red meat	Enterobacteriaceae	PEC.MIC.039 using Biomerieux TEMPO EB (AOAC tested Method Certificate N°050801)	Lab - MIC
Chicken (processed)	<i>Listeria monocytogenes</i>	PEC.MIC.035 based on ISO 11290-2 2017	Lab - MIC
Dairy products, meat and meat products and ready to eat foods	Coagulase-positive Staphylococci	PEC.MIC.020 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> Edition, 2015 and ISO 6888-1:2021 +A1:2023	Lab - MIC
Milk Powder	Coagulase positive Staphylococci	PEC.MIC 020 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> Edition, 2015 and ISO 6888-1:2021+A1:2023	Lab - MICFB
(excluding Cheese Products)	Coagulase positive Staphylococci	PEC.MIC.044 based on Petri-film method AOAC 2003.07, 2003.08 and 2003.11	Lab - MIC
Milk Powder	Coagulase positive Staphylococci	PEC.MIC.044 based on Petri-film method AOAC 2003.07, 2003.08 and 2003.11	Lab - MICFB



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES (sponge swabs)	<u>Microbiological Tests</u> (cont'd)  Detection:  <i>Listeria monocytogenes</i>	Documented In-House Methods identified by method number based on standard methods  PEC.MIC.066 using selective culture enrichment and presumptive detection by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system, AOAC RI 010802, with biochemical confirmation using PEC.MIC.022 if required	Lab - MIC
	<i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system, AOAC RI 121402 with confirmation using PEC.MIC.022 if required	Lab - MIC
	<i>Salmonella</i> spp	PEC.MIC.065 using selective culture enrichment and presumptive detection by iQ-Check Prep System for Automated DNA Extraction and manual extraction by real time PCR using Bio-Rad system by real time PCR AOAC 010803 RI, with serological and biochemical confirmation using PEC.MIC.023 if required	Lab - MIC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES (sponge swabs) (cont'd)	<u>Microbiological Tests</u> (cont'd)  Detection: (cont'd)  <i>Salmonella</i> spp	Documented In-House Methods identified by method number based on standard methods  PEC.MIC.024 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR System, AOAC OMA Official methods No 2013.02, with serological and biochemical confirmation using PEC.MIC.023 if required	Lab - MIC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>WATER and EFFLUENTS</b>	<u>Chemical and Physical Tests</u>		
Potable water	Anion: Bromate	PEC.PQAR.113 by ion chromatography based on EPA 300.1:1997	Lab - PQAR
Fresh surface water, wastewater, effluents	Anions: Chlorate	PEC.PQAR.113 by ion chromatography based on EPA 300.1:1997	Lab - PQAR
Fresh surface water, groundwater, potable water	Anions: Fluoride, Chloride, Nitrate, Sulphate	PEC.PQAR.113 by ion chromatography based on ISO 10304-1:2007	Lab - PQAR
	Alkalinity (total)	PEC.PQAR.105 by titration based on ASTM D1067-16	Lab - PQAR
	Hardness (total)	PEC.PQAR.106 by titration based on APHA, 2023, 24 <sup>th</sup> Edition, 2340-C	Lab - PQAR
Fresh surface water, groundwater, potable water, wastewater, effluents	pH	PEC.PQAR.601 by electrode based on APHA, 2023, 24 <sup>th</sup> Edition, 4500_H & ASTM 1293-12	Lab - PQAR
	Conductivity	PEC.PQAR.112 by electrode based on ISO 7888:1985 and APHA, 2023, 24 <sup>th</sup> Edition, 2520-A&B	Lab - PQAR
	Cyanides (total and free)	PEC.PQAR.602 by spectrometry based on EPA 335.4:1993, APHA, 2023, 24 <sup>th</sup> Edition 4500-CN E	Lab - PQAR
	Extractable matter (by solvent)	PEC.PQAR.007 based on APHA, 2023, 24 <sup>th</sup> Edition, 5520-D	Lab - PQAR
	Phenols	PEC.PQAR.603 based on EPA 420.1:1978	Lab - PQAR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATER and EFFLUENTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Documented In-House Methods identified by method number based on standard methods	
	Total suspended solids	PEC.PQAR.006 by gravimetry based on APHA, 2023, 24 <sup>th</sup> Edition, 2540-D	Lab - PQAR
	Total dissolved solids	PEC.PQAR.004 by gravimetry based on APHA, 2023, 24 <sup>th</sup> Edition, 2540-C	Lab - PQAR
	Total solids	PEC.PQAR.003 by gravimetry based on APHA, 2023, 24 <sup>th</sup> Edition, 2540-B	Lab - PQAR
	Settleable solids	PEC.PQAR.002 by gravimetry based on APHA, APHA, 2023, 24 <sup>th</sup> Edition, 2540-F	Lab - PQAR
Fresh surface water, wastewater, effluents	Absorbable Organic Halogens (AOX)	PEC.PQAR.604 based on ISO 9562:2004	Lab - PQAR
	Total Nitrogen (TN)	PEC.PQAR.606 by combustion-oxidation based on ISO 11905-2:1997	Lab - PQAR
Wastewater, effluents	Biochemical Oxygen Demand	PEC.PQAR.010 by manometric monitoring based on APHA, 2023, 24 <sup>th</sup> Edition, 5210-D app. 2016	Lab - PQAR
Fresh surface water, groundwater, wastewater, effluents	Colour	PEC.MAFB.011 based on ISO 7887:2011, APHA, 2023, 24 <sup>th</sup> Edition. Standard Method 2120B & ASTM D 1209-05 (2011)	Lab - MAFB
	Conductivity	PEC.MAFB.112 using conductivity meter based on ISO 7888:1985	Lab - MAFB



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and EFFLUENTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
	pH	PEC.MAFB.001 using pH meter based on APHA, 2023, 24 <sup>th</sup> Edition. Standard Method 4500 H <sup>+</sup> B, app. 2000 Rev. 2011 & ASTM D 1293-18	Lab - MAFB
	Soluble Phosphorus	PEC.MAFB.014 by spectrophotometry based on ISO 6878:2004	Lab - MAFB
	Total suspended solids	PEC.MAFB.006 by gravimetry based on APHA, 2023, 24 <sup>th</sup> Edition, 2540-D equivalent to ISO 11923:1997	Lab - MAFB
Wastewater, effluents	Biochemical Oxygen Demand	PEC.MAFB.010 by manometric monitoring based on APHA, 2023, 24 <sup>th</sup> Edition, 5210-D, app. 2016	Lab - MAFB
Fresh surface water, groundwater, wastewater, effluents	Chemical Oxygen Demand	PEC.MAFB.009 by sealed-tube methodology based on ISO 15705:2002	Lab - MAFB
Potable, fresh surface, groundwaters and Wastewater Effluents	Mercury	PEC.ESPEC.010 based on ISO 15587-2 Annex C ISO12846:2012	Lab - ESPEC



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WATERS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Potable, fresh surface and groundwaters	Arsenic, Cadmium, Chromium, Lead, Nickel, Selenium	PEC.ESPEC.012 using graphite furnace AAS based on ISO 15586:2003	Lab - ESPEC
	Aluminium, Barium, Boron, Calcium, Copper, Iron, Magnesium, Manganese, Potassium, Sodium & Zinc	PEC.ESPEC.014 using ICPOES based on ISO 11885:2007	Lab - ESPEC
	Organochlorine Pesticides: Aldrin Trans-chlordane Chlorpyrifos o,p-DDD p,p-DDD Dieldrin Alpha-endosulfan Beta-endosulfan Endosulfan sulphate Endrin Ethion Beta-HCH Heptachlor Heptachlor epoxide Hexachlorobenzene Lindane (γ-HCH) Malathion Methoxychlor Mirex Trans-nonachlor	PEC.CROMA.001 using GC-ECD and GC-MS based on UNE-EN-ISO 6468:1996	Lab - CROMA





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>WATERS and EFFLUENTS</b>	<u>Microbiological Tests</u>		
	Enumeration:		
Potable, including mineral water, fresh surface and groundwater	Total aerobic colony count	PEC.MIC.018 based on Standard methods for the examination of water and waste water APHA, 23rd Edition, Method 9215 A and B (approved 2016)	Lab - MIC & Lab - MICFB
Potable, including mineral water, fresh surface and groundwater and wastewater effluents	Coliforms Thermotolerant coliforms <i>Escherichia coli</i> (presumptive)	PEC.MIC.030 incorporating ISO 9308-2:1990 using MPN technique to meet national requirements	Lab - MIC & Lab - MICFB
Potable, including mineral water	Total coliforms <i>Escherichia coli</i> (presumptive)	PEC.MIC.016 using Endo Agar based on Standard methods for the examination of water and waste water APHA, 23rd Edition, Method 9222B (approved 2015) using membrane filtration technique	Lab - MIC & Lab - MICFB
Sea water, fresh surface waters, groundwater and effluents	Thermotolerant (faecal) coliforms	PEC.MIC.016 using mFC Agar based on Standard methods for the examination of water and waste water APHA, 23rd Edition, Method 9222D (approved 2015) using membrane filtration technique	Lab - MICFB
Potable, including bottled and mineral waters, and groundwater, including boreholes and wells	<i>Pseudomonas aeruginosa</i>	PEC.MIC.034 based on Standard methods for the examination of water and waste water APHA, 23 <sup>rd</sup> Edition, Method 9213 E (approved 2007)	Lab - MIC & Lab - MICFB



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATER and EFFLUENTS (cont'd)	<u>Biological Toxicity Test</u>	Documented In-House Methods identified by method number based on standard methods	
Fresh surface water, wastewater, effluents	Determination of toxicity using <i>Daphnia magna</i> immobilisation test (ED50) or lethality test (LC)	PEC.PQAR.607 based on EPS1/RM/14 Environmental Protection Series. Environment Canada, Ottawa, 2 <sup>nd</sup> Edition, December 2000	Lab-PQAR
Effluents	Determination of Toxicity using <i>Pimephales promelas</i> lethal concentration (LC50) test, or half maximal effect concentration (EC50) test	PEC.PQAR616 based on EPA-821-R-02-012. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. Fifth Edition, October 2002	Lab-PQAR
SEDIMENTS	<u>Biological Tests</u>		
River and Estuary Sediments	Biomass determination, identification and enumeration of benthic invertebrates to family level	PEC.MAM.200 based on USA EPA/620/R-95/008, 1995 Environmental Monitoring Assessment programme Laboratory Manual - Volume 1: Biological and Physical Analysis	Lab - PQAR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS and SEDIMENTS	<u>Sampling</u>	Documented In-House Methods identified by method number based on standard methods	
Surface estuary and fresh waters	Collection of samples for biological examination (plankton)	PRD.MUA.007 qualitative and quantitative using a variety of sampling equipment as described in ITR.MUA 200 and 201 based on Standard Methods for the Examination of Water and Wastewater - APHA 23 <sup>rd</sup> Edition, 2017, Part 10200	Site (Environmental - MUA)
Surface estuary and fresh waters	Collection of samples for microbiological analysis	ITR.MIC.061 and ITR.MUA.205 based on Standard Methods for the Examination of Water and Wastewater - APHA Part 9060A 2006	Site (Environmental - MUA)
Surface estuary and fresh waters	Collection of samples for physicochemical analysis	PRD.MUA.007 based on ISO 5667-6	Site (Environmental MUA)
River and Estuary Sediments	Collection of grab samples for physicochemical analysis	PRD.MUA.005 based on ASTM E1391-03 (Reapproved 2014)	Site (Environmental – MUA)
	Collection of grab samples for biological examination, benthic invertebrates	PRD.MUA.005 based on ASTM E1391-03 (Reapproved 2014)	Site (Environmental - MUA)
Surface estuary and fresh waters	In-situ determination of temperature, pH, conductivity & dissolved oxygen (DO)	PEC.MUA.300 using multiparameter probes	Site (Environmental - MUA)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/Equipment/Techniques used	Location Code
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES	<u>Physical Testing</u>	National, International and other recognised standards using documented In-House work instructions	
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	PEC.MAM.CAE.004 based on EN 13284-1:2017	Lab - MAM
Testing of Stack Emissions to Atmosphere	<u>Sampling</u> (with subsequent analysis by an ISO/IEC 17025 accredited laboratory)	National, International and other recognised standards using documented In-House work instructions to meet the requirements of EN 15259:2007	
	Total Particulate Matter	PEC.MAM.CAE.004 based on EN 13284-1:2017	Site - MAM
	<u>Sampling and On-Line Analysis</u>		
	Pressure, Temperature and Velocity (Point Velocity Method to support measurement of total particulate matter)	PEC.MAM.CAE.004 based on PD CEN/TR 17078:2017 / EN 16911-1:2013	Site - MAM
TOYS AND TOY PACKAGING	<u>Chemical Tests</u>		
	Migration of certain elements: Arsenic Barium Antimony Cadmium Chromium Lead Selenium Mercury	PEC.ESPEC.024 based on Mercosur Standard NM-300-3:2002 – Safety of toys – migration of certain elements using ICP-OES and ICP-MS and, for mercury determination CVAAS	Lab - ESPEC
END			



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**Table 1 - Pesticides by GC-ECD - Fruit, fruit juices and vegetables**

Aldrin beta-HCH Chlorpyrifos-methyl Dieldrin Heptachlor Epoxide B Malaoxon Parathion-methyl pp-DDT	Alpha-Endosulfan Cypermethrin delta-HCH Endrin Imazalil Malathion Permethrin Prochloraz	alpha-HCH Chlorothalonil Deltamethrin Ethion Lambda-Cyhalothrin op-DDT pp-DDD Sulfate-endosulfan	Beta-Endosulfan Chlorpyrifos Diazinon Heptachlor Lindane Parathion-ethyl pp-DDE
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**Table 2 - Pesticides by GC-MS - Fruit, fruit juices and vegetables**

Aldrin Beta-Endosulfan Chlorpyrifos-methyl Dimethoate Fenthion Lindane Opp (2-Pheniphenol) Pyrimethanil pp-DDT Thiabendazole (TBZ)	Alpha-Endosulfan beta-HCH delta-HCH Endrin Heptachlor Malathion Parathion-ethyl Pirimiphos-methyl Prochloraz	alpha-HCH Chlorothalonil Diazinon Ethion Heptachlor Epoxide B Methidathion Parathion-methyl pp-DDD Propiconazole	Azinphos-methyl Chlorpyrifos Dieldrin Fenitrothion Lambda-Cyhalothrin op-DDT Permethrin pp-DDE Sulfate-endosulfan
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**Table 3 Pesticides by LC-FLD - Fruit, fruit juices and vegetables**

2-Phenifenol Thiabendazole			
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**Table 4 Pesticides by LC-MS/MS – Fruit and fruit juices**

Acetamiprid Azoxystrobin Carbaryl Cyproconazole Chlorfenvinphos Coumaphos Diclosulam Edifenphos Fenthion Fluxapyroxad Imazalil Kresoxim-methyl Methalaxil Methiocarb Sulfone Methoxyfenozide Parathion-ethyl Pyraclostrobin Pirimiphos-ethyl Profenofos Propiconazole Tebuconazole Tricyclazole Triticonazole	Acetochlor Bifenthrin Carbendazim Cyprodinil Chlorimuron-ethyl Deltamethrin Difenoconazole Ethion Fipronil Phosalone Imidachloprid Lambda-Cyhalothrin Methamidophos Metiocarb Sulfoxide Metsulfuron-methyl Parathion-methyl Pyrazosulfuron-ethyl Pirimiphos-methyl Profoxydim Saflufenacil Thiabendazole (TBZ) Trichlorfon	Atrazine Boscalid Carbofuran Clomazone Chlorpyrifos Diazinon Diflubenzuron Fenbuconazole Florpyrauxifen-benzyl Phosmet Iprodione Malaoxon Methidathion Metolachlor Omethoate Penoxsulam Pyrimethanil Pyriproxyfen Propanil Simazine Thiacloprid Trifloxystrobin	Azinphos-methyl Buprofezin Cypermethrin Chlorantraniliprole Chlorpyrifos-methyl Dichlorvos Dimethoate Fenhexamid Fludioxonil Hexythiazox Isoprothiolane Malathion Methiocarb Methomyl Opp (2-Pheniphenol) Permethrin Pirimicarb Prochloraz Propetamphos Spinosad Thiamethoxam Triflumuron
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**Table 5 Pesticides by GC-MS/MS – Fruit and fruit juices**

Acetochlor Atrazine Bifenthrin Carbofuran Cyprodinil Chlorothalonil delta-HCH Dichlorvos Dimethoate Fenbuconazole Fenthion Phosalone Heptachlor Epoxide B Lambda-Cyhalothrin Methalaxil Metoxichlor op-DDT Parathion-methyl Pirimiphos-ethyl pp-DDE Propanil Sulfate-endosulfan Tricyclazole	Aldrin Azinphos-methyl Boscalid Cifluthrin Cis chlordane Chlorpyrifos Deltamethrin Dicofol Edifenphos Fenclorophos Fenvalerate Phosmet Iprodione Lindane Methidathion Mirex Opp (2-Pheniphenol) Permethrin Pirimiphos-methyl pp-DDT Propetamphos Tebuconazole Trifloxystrobin	Alpha-Endosulfan Beta-Endosulfan Buprofezin Cypermethrin Cis nonachlor Chlorpyrifos-methyl Diazinon Dieldrin Endrin Fenhexamid Fipronil HCB Isoprothiolane Malaoxon Methiocarb op-DDD Oxichlordane Pyrimethanil Pyriproxyfen Procymidone Propiconazole Trans chlordane	alpha-HCH beta-HCH Carbaryl Cyproconazole Chlorfenvinphos Coumaphos Diclofenthion Difenoconazole Ethion Fenitrothion Fludioxonil Heptachlor Kresoxim-methyl Malathion Metolachlor op-DDE Parathion-ethyl Pirimicarb pp-DDD Profenofos Simazine Trans nonachlor
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