

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Technological Laboratory of Uruguay</h3> <p>Issue No: 078 Issue date: 12 October 2021</p>	
	<p>Av. Italia 6201 C.P. 11500 Montevideo Uruguay</p>	<p>Contact: Ms Monica Trias Tel: +598 2 601 3724 Int 1228 E-Mail: mtrias@latu.org.uy Website: www.latu.org.uy</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
<p>Address Av. Italia 6201 C.P. 11500 Montevideo Uruguay</p>	<p>Local contact Ms Monica Trias Tel: +598 26013724 int 1228 Email: mtrias@latu.org.uy Website: www.latu.org.uy</p>	<p><u>Testing:</u> Chemical Microbiological Performance Physical Temperature profiling</p> <p><u>Sampling:</u> Wool (for Physical testing)</p> <p><u>Sampling and Testing:</u> Stack Emissions Testing</p>	Lab (see below)
<p>Address Rio Negro: Parque Industrial Municipal Barrio Anglo Fray Bentos Uruguay</p>	<p>Local contact Ms Monica Trias Tel: +598 26013724 int 1228 Email: mtrias@latu.org.uy Website: www.latu.org.uy</p>	<p><u>Testing:</u> Chemical Microbiological Performance Physical</p> <p><u>Sampling:</u> Waters and sediments (for Chemistry and Microbiology testing)</p>	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	Fuels and oils
CROMA	Analytical Methods Development
ESPEC	Atomic spectrometry
FOR	Forestry
PFOFB	Forestry at Fray Bentos
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
TEX-LAN-CUE	Textiles, Raw Wool, Tops and Leather Department

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer sites where wool is processed, managed from Montevideo	Sampling Wool	Site (TEX-LAN-CUE)
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
MILK and DAIRY PRODUCTS as specified	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Butter Butter Oil	Moisture	PEC.AGROPEC.037 based on: IDF 80:1977	Lab - AGROPEC
Cheese		ISO 5534/IDF 4:2004	
Dried Milk, Milk Powders, Dried Cheese, Whey Powder		IDF 26A:1993	
Milk (liquid) Skimmed Milk		ISO 6731/IDF 21:2010	
Dulce de Leche		ISO 6734/IDF 15:2010	
MILK and DAIRY PRODUCTS as specified: Butter Butter Oil	Fat acidity	PEC.AGROPEC.137 based on: AOAC Official Methods of Analysis 969.17:1974, 2019, 21 st Edition	Lab - AGROPEC
MILK and DAIRY PRODUCTS as specified: Dried Milk, Milk Powders, Whey Powder	Ash	PEC.AGROPEC.040 based on: AOAC Official Methods of Analysis 930.30:1930, 2019, 21 st Edition	Lab - AGROPEC
Milk		AOAC Official Methods of Analysis 945.46:1945, 2019, 21 st Edition	



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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>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
MILK and DAIRY PRODUCTS as specified: (cont'd)	Ash (cont'd)	PEC.AGROPEC.040 based on:	Lab - AGROPEC
Dulce de Leche		AOAC Official Methods of Analysis 945.48:1945, 2019, 21 st Edition	
MILK and DAIRY PRODUCTS as specified: 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
MILK and DAIRY PRODUCTS as specified	Fat	PEC.AGROPEC.159 (Gravimetric Method) based on:	Lab - AGROPEC
Dried Milk Whey Dried, Whey and Whey Butter		ISO 1736/ IDF 9:2008	
Cheese Dried Cheese		ISO 1735/IDF 5:2004	
Milk (liquid)		ISO 1211/IDF1:2010	
		PEC.AGROPEC.163 (Butyrometric Method) based on:	Lab - AGROPEC
Cream		BS 696 Part 2 1989 (withdrawn)	
Cheese, Dried Cheese		ISO11870/IDF 152:2009, ISO3433/ IDF222:2008	



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
MILK and DAIRY PRODUCTSS as specified:			
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, 2019, 21 st Edition	Lab - AGROPEC
Dairy Products:	Nitrogen (Protein by Calculation)	PEC.AGROPEC.172 based on: ISO 8968-1/IDF 20-1:2014	Lab - AGROPEC
MILK and DAIRY PRODUCTS as specified:	pH		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 th Edition	



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ANIMAL FEED, FOOD & FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
FOOD and ANIMAL FEED	Ash	PEC.AGROPEC.048 based on: ISO 5984:2002 corr1:2005	Lab - AGROPEC
Animal Feeds			
Food (General)		Kirk Ronald S., Sawyer R. Pearson's composition and analysis of foods. 9th edition, 1991, page.13	
Spices and condiments		ISO 928:1997	
FOOD & FOOD PRODUCTS	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Apple juice Apple juice concentrate Apple puree	Patulin	PEC.AGROPEC.080 Based on AOAC International Official Methods of Analysis of AOAC International. , 2019, Gaithersburg: AOAC Official Method 974.18:1982 and 995.10:1999, 21 st Edition	Lab - AGROPEC
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



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
HONEY	Ash	PEC.AGROPEC.048 based on INTERNATIONAL HONEY COMMISSION. Harmonized methods of the International Honey Commission: 2009, method 3	Lab - AGROPEC
	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, 2019, 21 st Edition	Lab - AGROPEC
Honey	Total Acidity	PEC. AGROPEC.001 method based on AOAC Official Methods of Analysis 962.19:1977, 2019 21 st 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



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MEAT AND MEAT PRODUCTS	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
	Ash	PEC.AGROPEC.040 using muffle furnace based on ISO 936:1998	Lab - AGROPEC
	Moisture	PEC.AGROPEC.037 air drying based on AOAC Official Methods of Analysis 950.46:1991, 2019, 21 st Edition	Lab - AGROPEC
FRUIT and VEGETABLE PRODUCTS	Nitrogen	PEC.AGROPEC.172 by Kjeldahl based on ISO 937:1978	Lab - AGROPEC
	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	Lab-Croma
Fruit, fruit juices and vegetables	Pesticide residues Acetamiprid Azinphos-methyl Azoxistrobin Bifentrin Carbaryl Carbendazim Carbofuran Cypermethrin Cyproconazole Clomazone Chorfenvinphos	PEC.CROMA.019 based on QuEChERS extraction and gas chromatography tandem mass spectrometry (GC-MS/MS) and high performance liquid chromatography tandem mass spectrometry (LC-MS/MS)	



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FRUIT and VEGETABLE PRODUCTS (cont'd)	Chlorpiriphos Chlorpiriphos-methyl Deltamethrin Diazinon Diphenconazole Diflubenzuron Dimethoate Edifenphos Ethion Fenbuconazole Fenthion Fenitrothion Phosalone Phosmet Imazalil Imidachlopid Iprodione Isoprothiolane Kresoxim-methyl Lambda-Cyhalothrin Malathion Malaixon Methalaxyl Methamidophos Metidation Methiocarb Methomyl Omethoate Parathion Permethrin 2-Phenyl phenol (OPP) Phosalone Phosmet	PEC.CROMA.019 (cont'd)	



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	Pyrachlostrobin Pyrimethanil Pirimicarb Pyrimiphos-ethyl Pyrimiphos-methyl Prochloraz Profenofos Propetamphos Propiconazole Spinosad Tebuconazole Thiacloprid Tricyclazole Triflumuron Thibendazol		



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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 st edition	Lab -CEMIC
Cereals, oilseeds and their products	Moisture	PEC.CEMIC.001 ISO 712:2009 ISO665:2020 ISO 6540 1980 EBC 3.2 1997 EBC 4.2 2000 AACC 44-15A 1999 10 TH Ed 2000 AOCS Ac 2-41:2017 7 th Edition 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 5983-1:2008, 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



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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	
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
Oils and Fats (Grease)	Peroxide Index	PEC.CEMIC.CER. 401 based on AOCS Cd 8b-90:,017	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 AOCS Ca 2c-2017 and ISO 662:2016	Lab-CEMIC
Wheat flour	Iron	PEC.CEMIC.CER.214 based on AACC Method 40-41B:1999,10 th Edition 2000 and AOAC 944.02:1993, 2019 21 st Edition	Lab -CEMIC
Foods General	Fatty acid with fat extraction	PEC.CROMA.009 Folch method	Lab - CROMA



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<p>FOOD & FOOD PRODUCTS (cont'd)</p> <p>ANIMAL FEEDS, CEREALS FOOD AND DAIRY as specified</p> <p>Dairy products including Cheese, Milk, Milk powders, Liquid Dairy Products (flavoured milks, yoghurt) and dairy desserts (Pudding)</p> <p>Nuts, Grains and Dried Fruit including By-products and Finished products for all. Animal Feeds</p> <p>Grains including By-products and Finished products for all. Animal Feeds</p>	<p><u>Chemical and Physical Tests (cont'd)</u></p> <p>Aflatoxin M₁</p> <p>Aflatoxin B₁, B₂, G₁, G₂</p> <p>Deoxynivalenol (DON)</p>	<p>Documented In-House Methods identified by method number based on standard methods</p> <p>PEC.AGROPEC.075 Extraction based on AOAC Official Methods of Analysis 1975 26.084 and 26.085, 2019 21st Edition or using immunoaffinity column clean up. HPLC based on ISO14501:2007 using fluorescence detection</p> <p>PEC.AGROPEC.053 based on AOAC Official Methods of Analysis, 993.17:1996 and 994.08:1997: 2019, 21st Edition or immunoaffinity column clean up. HPLC based on AOAC Official Methods of Analysis 991.31:1994 and 994.08:1997, 2019, 21st Edition using HPLC and fluorescence detection</p> <p>PEC. AGROPEC.063 extraction based on AOAC Official Methods of Analysis, 986.17:1990 2019, 21st Edition or Immunoaffinity column clean up. HPLC based on Journal of Association of Official Analytical Chemists 70(3), 1987, 479-483 using UV detection</p>	<p>Lab - AGROPEC</p> <p>Lab - AGROPEC</p> <p>Lab - AGROPEC</p>



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ANIMAL FEEDS, CEREALS FOOD AND DAIRY as specified (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
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 AOAC official methods of analysis 970.45:1988, 2019 21 st edition or immunoaffinity column clean up HPLC based on Analytica Chimica Acta 566 2006:117-121 using HPLC and fluorescence detection	Lab - AGROPEC
Wine	Ochratoxin A	PEC. AGROPEC.072 based on Analytica Chimica Acta 566 2006:117-121 using HPLC and fluorescence detection	Lab - AGROPEC
Edible Iodized Salt	Iodine	Method PEC.PQAR.910 by titration based on Rosin J, 1966. Reagent Chemicals and Standards. Potassium Iodate, pgs. 383-384. D. Van Nostrand Company Inc., 5th ed. New York	Lab PQAR
FOOD PRODUCTS Excluding fats and oils. Excluding lead in milk and infant formulae	Cadmium Lead	PEC.ESPEC.013. Graphite furnace AAS based on AOAC 999.10:2005,2019 21 st Edition	Lab - ESPEC
Fats and Oils	Fatty acid profile	PEC.CROMA.005 using GC-MS based on AOCS Official Method Ce 2-66	Lab - CROMA
Olive oil	Stigmasta-3,5-diene	PEC.COMB.026 based on AOAC Method Cd 26-96,2017 7 th Edition	Lab- COMB
Honey, soft drinks, and drinks powders, Jam and Sweets	Sugars: Glucose, Fructose, Sucrose	PEC.CROMA.004 using HPLC and RI detection	Lab - CROMA



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
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 Microwave Assisted Digestion	Lab ESPEC
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 Microwave Assisted Digestion	Lab ESPEC
Bakery products fortified with iron	Iron	PEC.ESPEC.014 Based on AOAC Official Method 2011.14 using Microwave 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 Microwave Assisted Digestion	Lab ESPEC



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FOOD & FOOD PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Food and Food products	Sodium	PEC.ESPEC.014 Based on AOAC Official Method 2011.14 using Microwave Digestion and Inductively Coupled Plasma-Optical Emission Spectrometry	Lab ESPEC
FOODS 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</i> spp	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.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 if required	Lab – MIC



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FOOD & FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
FOODS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	Detection: (cont'd)		
Dairy Products	Detection of <i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system, ISO 11290:2017), with biochemical confirmation using PEC.MIC.022 if required	LABMICFB
	<i>Salmonella</i> spp	PEC.MIC.023 based on ISO 6579-1:2017+A1:2020	Lab - MIC
	<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
Dairy 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	LABMICFB



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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: <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.027 RealTime- PCR	Lab - MIC
Raw meat	Shiga Toxin-Producing <i>Escherichia coli</i> (STEC) by detection of STX1, STX2 and EAE gene sequences in serogroups 026, 045, 0103, 0111, 0121 and 0145	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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FOODS 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 48 hr	PEC.MIC.029 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 th Edition, 2015	Lab - MIC
	Aerobic colony count	PEC.MIC.038 using Biomerieux TEMPO AC (AOAC tested Method Certificate N°121204)	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 th Edition, 2015	Lab - MIC
	Total Coliforms	PEC.MIC.059 based on ISO 4832:2006	Lab-MIC
	Coagulase-positive Staphylococci	PEC.MIC.020 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 th Edition, 2015	Lab - MIC
Milk Powder	Enterobacteriaceae	PEC.MIC.031 based on ISO 21528-2:2017	Lab-MICFB
Milk Powder	Coagulase positive Staphylococci	PEC.MIC 020 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 5 th Edition, 2015	Lab-MICFB



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FOODS 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	
Milk Powder	Enumeration: Aerobic colony count at 35.5°C	PEC.MIC.029 based on Compendium of Methods for the Microbiological Examination of Foods, 5 th edition, 2015	Lab-MICFB
Meat and Meat products and Dairy	Aerobic colony count at 30 °C for 72 hr	PEC.MIC.029 based on ISO 4833:2013	Lab - MIC
Meat and Meat products and Dairy	Enterobacteriaceae	PEC.MIC.031 based on ISO 21528-2: 2017+A1:2020	Lab - MIC
Red meat	Enterobacteriaceae	PEC.MIC.039 using Biomerieux TEMPO EB (AOAC tested Method Certificate N°050801)	Lab - MIC
FOODS including dairy products,meat and meat products and ready to eat foods, excluding Cheese Products	Coagulase positive Staphylococci	PEC.MIC.044 based on Petri-film method AOAC 2003.07 and 2003.08 and 2003.11	Lab - MIC
Milk Powder	Coagulase positive Staphylococci	PEC.MIC.044 based on Petri-film method AOAC 2003.07 and 2003.08 and 2003.11	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
Chicken (processed)	<i>Listeria monocytogenes</i>	PEC.MIC.035 based on ISO 11290-2 2017	Lab - MIC



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ENVIRONMENTAL SAMPLES	<u>Microbiological Tests</u> (cont'd)	Documented In-House Methods identified by method number based on standard methods	
Environmental sponge samples	Detection of <i>Salmonella</i>	PEC.MIC.024 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR System with serological and biochemical confirmation using PEC.MIC.023 if required	LABMIC
Environmental sponge samples	Detection of <i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by real time PCR using Dupont Qualicon BAX PCR system, with biochemical confirmation using PEC.MIC.022 if required	LABMIC
TOYS AND TOY PACKAGING	<u>Chemical Tests</u>	Documented In-House Methods identified by method number based on standard methods	
	Migration of certain elements: Arsenic Barium Antimony Cadmium Chromium Lead Selenium and Mercury	PEC.ESPEC.024 based on Mercosur Standard NM-300-3:2002 – Safety of toys – migration of certain elements	Lab ESPEC



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WATER and EFFLUENTS	<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, 2017, 23rd Edition, 2340-C	Lab-PQAR
Fresh surface water, groundwater, potable water, wastewater, effluents	pH	PEC.PQAR.601 by electrode based on APHA, 2017, 23rd Edition, 4500_H & ASTM 1293-12	Lab-PQAR
	Conductivity	PEC.PQAR.112 by electrode based on ISO 7888:1985 and APHA, 2017, 23rd Edition, 2520-A&B	Lab-PQAR
	Cyanides (total and free)	PEC.PQAR.602 by spectrometry based on EPA 335.4:1993	Lab-PQAR
	Extractable matter (by solvent)	PEC.PQAR.007 based on APHA, 2017, 23rd Edition, 5520-D	Lab-PQAR
	Phenols	PEC.PQAR.603 based on EPA 420.1:1978	Lab-PQAR



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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, 2017, 23 rd Edition, 2540-D	Lab-PQAR
	Total dissolved solids	PEC.PQAR.004 by gravimetry based on APHA, 2017, 23 rd Edition, 2540-C	Lab-PQAR
	Total solids	PEC.PQAR.003 by gravimetry based on APHA, 2017, 23 rd Edition, 2540-B	Lab-PQAR
	Settleable solids	PEC.PQAR.002 by gravimetry based on APHA, 2017, 23 rd 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 (BOD5)	PEC.PQAR.010 by manometric monitoring based on APHA, 2017, 23 rd Edition, 5210-D	Lab-PQAR



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<p>WATER and EFFLUENTS (cont'd)</p> <p>Fresh surface water, wastewater, effluents</p> <p>Effluents</p> <p>Fresh surface water, groundwater, wastewater, effluents</p>	<p><u>Biological toxicity Test</u></p> <p>Determination of toxicity using <i>Daphnia magna</i> immobilisation test (ED50) or lethality test (LC)</p> <p>Determination of Toxicity using <i>Pimephales promelas</i> lethal concentration (LC50) test, or half maximal effect concentration (EC50) test</p> <p>Chemical Oxygen Demand (COD) (DQO)</p>	<p>Documented In-House Methods identified by method number based on standard methods</p> <p>PEC.PQAR.607 based on EPS1/RM/14 Environmental Protection Series. Environment Canada, Ottawa, 2nd Edition, December 2000</p> <p>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</p> <p>PEC.MAFB.009 by sealed-tube methodology based on ISO 15705:2002</p>	<p>Lab-PQAR</p> <p>Lab-PQAR</p> <p>Lab-MAFB</p>
<p>WATERS and EFFLUENTS (cont'd)</p> <p>Fresh surface water, groundwater, wastewater, effluents (cont'd)</p>	<p><u>Chemical and Physical Tests (cont'd)</u></p> <p>Colour</p> <p>Conductivity</p>	<p>Documented In-House Methods identified by method number based on standard methods</p> <p>PEC.MAFB.011 based on ISO 7887:2011, APHA, 2017, 23rd Ed. Standard Method 2120B & ASTM D 1209-05 (2011)</p> <p>PEC.MAFB.112 using conductivity meter based on ISO 7888:1985</p>	<p>Lab-MAFB</p> <p>Lab-MAFB</p>



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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, 2017, 23rd Ed. Standard Method 4500 H+ 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, 2017, 23rd Edition, 2540-D equivalent to ISO 11923:1997	Lab-MAFB
Wastewater, effluents	Biochemical Oxygen Demand (BOD 5)	PEC.MAFB.010 by manometric monitoring based on APHA, 2017, 23rd Ed., 5210-D, app. 2016	Lab-MAFB
WATERS Potable, fresh surface and groundwaters	<u>Chemical Tests</u>		
	Arsenic, Cadmium, Chromium, Lead, Nickel, Selenium Aluminium, Barium, Boron, Calcium, Copper, Iron, Magnesium, Manganese, Potassium, Sodium & Zinc	PEC.ESPEC.012 using graphite furnace AAS based on ISO 15586:2003 PEC.ESPEC.014 Using ICPOES based on ISO 11885:2007	Lab - ESPEC Lab - ESPEC



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<p>WATERS Potable, fresh surface and ground waters (cont'd)</p> <p>Potable, fresh surface and groundwaters</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Organochlorine Pesticides: Aldrin</p> <p>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</p>	<p>Documented In-House Methods identified by method number based on standard methods</p> <p>PEC.CROMA.001 using GC-ECD and GC-MS based on UNE-EN-ISO 6468:1996</p>	<p>Lab - CROMA</p>
<p>Potable, fresh surface, groundwaters and Wastewater Effluents</p>	<p>Mercury</p>	<p>PEC.ESPEC.010 based on ISO 15587-2 Annex C ISO12846:2012</p>	<p>Lab - ESPEC</p>
<p>WATERS and EFFLUENTS</p> <p>Potable, including mineral water, fresh surface and groundwater</p>	<p><u>Microbiological Tests</u></p> <p>Enumeration: Total aerobic colony count</p>	<p>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)</p>	<p>Lab – MIC & LAB-MICFB</p>



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<p>WATERS and EFFLUENTS (cont'd)</p> <p>Potable, including mineral water, fresh surface and groundwater and wastewater effluents</p> <p>Potable, including mineral water</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Coliforms Thermotolerant coliforms <i>Escherichia coli</i> (presumptive)</p> <p>Total coliforms <i>Escherichia coli</i> (presumptive)</p>	<p>Documented In-House Methods identified by method number based on standard methods</p> <p>PEC.MIC.030 incorporating ISO 9308-2:1990 using MPN technique to meet national requirements</p> <p>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</p>	<p>Lab – MIC & LAB-MICFB</p> <p>Lab – MIC & LAB-MICFB</p>
<p>Sea water, fresh surface waters, groundwater and effluents</p>	<p>Thermotolerant (faecal) coliforms</p>	<p>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</p>	<p>Lab –LAB-MICFB</p>
<p>Potable, including bottled and mineral waters, and groundwater , including boreholes and wells</p>	<p>Isolation and enumeration of <i>Pseudomonas aeruginosa</i></p>	<p>PEC.MIC.034 based on Standard methods for the examination of water and waste water APHA, 23rd Edition, Method 9213 E (approved 2007)</p>	<p>Lab – MIC & LAB-MICFB</p>
<p>SEDIMENTS</p> <p>River and Estuary Sediments</p>	<p><u>Biological Tests</u></p> <p>Biomass determination, identification and enumeration of benthic invertebrates to family level</p>	<p>PEC.MAM.200 based on USA EPA/620/R-95/008, 1995 Environmental Monitoring Assessment programme Laboratory Manual - Volume 1: Biological and Physical Analysis</p>	<p>Lab - PQAR</p>



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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 rd 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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FORESTRY PRODUCTS	<u>Physical and Performance Tests</u>	Documented In-House Methods identified by method number based on standard methods	
Paper	Grammage (Mass per unit area)	UNIT/NM/ISO 536, TAPPI 410 om-19	Lab - FOR
Paper	Moisture	TAPPI T412 om-16 UNIT ISO 287-2009	Lab - FOR
Wood	Apparent specific weight (basic density)	TAPPI 258 om-16	Lab - FOR
	Moisture	ASTM D4442-20	Lab - FOR
Wood chips	Apparent specific weight (basic density)	PEC.FORES.016 based on ASTM D 2395-17-	Lab - FOR
Pulp	Preparation of laboratory sheets for the pulp tests below	ISO 5269-1:2005	Lab - PFOFB
	Grammage (mass per unit area)	ISO 5270:2012; ISO 536:2019	Lab - PFOFB
	Thickness	ISO 5270:2012; ISO 534:2011	Lab - PFOFB
	Specific Volume by calculation	ISO 5270:2012	Lab - PFOFB
	Tensile strength	ISO 5270:2012 ISO 1924-2:2008	Lab - PFOFB



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WOOL	<u>Sampling for Physical Tests</u>	Documented In-House Methods identified by method number based on standard methods	Site (TEX-LAN-CUE)
	IWTO White Book Regulations Edition 2020	IWTO Core Test Regulations: latest Ed 2011	
		IWTO Conditions Testing Regulations for Scoured or Carbonised Wool: latest Ed 1999	
		IWTO Condition Testing Regulations for Wool Tops: latest Ed 1996	
		IWTO Sliver Test Regulations: latest Ed 2020	
		IWTO Colour Test Regulations for raw wool: latest Ed 2007	
	<u>Physical and Performance Tests</u>		
	Measurement of the mean and distribution of fibre diameter using the Sirolan-Laserscan Fibre Diameter Analyser	IWTO-12-12 IWTO Core Test Regulations: Latest Ed 2011 IWTO Silver Test Regulations: latest Ed 2010	Lab - TEX-LAN-CUE
	Determination of wool base and vegetable matter base of core samples of raw wool	IWTO-19-20 IWTO Core Test Regulations: Latest Ed 2011	Lab - TEX-LAN-CUE
	Determination by the airflow method of the mean fibre diameter of core samples of raw wool	IWTO-28-13 IWTO Core Test Regulations: Latest Ed 2011	Lab - TEX-LAN-CUE
	Method for the Measurement of colour of raw wool	IWTO-56-20 IWTO Colour test regulations for raw wool: Latest Ed 2007	Lab - TEX-LAN-CUE



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WOOL (cont'd)	<u>Physical and Performance Tests (cont'd)</u>	Documented In-House Methods identified by method number based on standard methods	
	Calculation of IWTO combined certificates for deliveries of raw wool	IWTO-31-02	Lab - TEX-LAN-CUE
	Method for the determination of dichloromethane soluble matter in combed wool and commercially scoured or carbonised wool	IWTO-10-03 Excluding NIR method IWTO Core Test Regulations: Latest Ed 2011	Lab - TEX-LAN-CUE
	Method for the determination of oven-dry mass and calculated invoice mass of scoured or carbonised wool	IWTO-33-03 IWTO Conditions Testing Regulations for Scoured or Carbonised Wool: Latest Ed 1999	Lab - TEX-LAN-CUE
	Determination of oven-dry mass, calculated invoice mass and calculated merchantable mass of wool tops	IWTO-34-17 IWTO Condition Testing Regulations for Wool Tops: Latest Ed 1996	Lab - TEX-LAN-CUE
	Method of test for the determination of the mean diameter of wool fibres in combed sliver using the airflow apparatus	IWTO-6-13 IWTO Silver Test Regulations: Latest Ed 2010	Lab - TEX-LAN-CUE
	Determination of fibre length and distribution parameters	IWTO-17-21 IWTO Silver Test Regulations: Latest Ed 2021	Lab - TEX-LAN-CUE
	Measurement of colour of wool sliver	IWTO-35-20	Lab - TEX-LAN-CUE



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WOOL (cont'd) Wool and Other Animal Fibres	<u>Physical and Performance Tests (cont'd)</u> Method of determining fibre diameter distribution parameters and percentage of medullated fibres in wool and other animal fibres by the projection microscope	Documented In-House Methods identified by method number based on standard methods IWTO-8-11	Lab - TEX-LAN-CUE
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES Filter Papers and Rinse Solutions Testing of Stack Emissions to Atmosphere	<u>Physical Testing</u> Weighing of Particulate Matter <u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> Total Particulate Matter <u>Sampling and On-Line analysis</u> Pressure, Temperature and Velocity (Point Velocity Method to support measurement of total particulate matter)	National, International and other recognised standards using documented In-House work instructions EN 13284-1:2017 (PEC.MAM.CAE.004) National, International and other recognised standards using documented In-House work instructions to meet the requirements of EN 15259:2007 EN 13284-1:2017 (PEC.MAM.CAE.004) EN 16911-1:2013 (PEC.MAM.CAE.004)	Lab - MAM Site - MAM Site - MAM
END			