

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	Technological Laboratory of Uruguay	
	Issue No: 040 Issue date: 09 February 2011	
	Av. Italia 6201 C.P. 11500 Montevideo Uruguay	Contact: Ms Monica Trias Tel: +598 2 601 3724 Int 1228 Fax: +598 2 600 4763 Int 1252 E-Mail: mtrias@latu.org.uy Website: www.latu.org.uy
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
Address Av. Italia 6201 C.P. 11500 Montevideo Uruguay	Local contact Ms Monica Trias Tel: +598 26013724 int 1228 Fax: +598 26004763 int 1252 Email: mtrias@latu.org.uy Website: www.latu.org.uy	<u>Testing:</u> Chemical Microbiological Performance Physical Temperature profiling <u>Site Testing:</u> Temperature profiling <u>Sampling:</u> Wool (for Physical testing)	Lab (see below)
Address Rio Negro:Parque Industrial Municipal Barrio Anglo Fray Bentos Uruguay	Local contact Ms Monica Trias Tel: +598 26013724 int 1228 Fax: +598 26013724 int 1252 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):

- CEMIC - Cereals, Oils and derived products
- CROMA - Chromatography and mass spectrometry department
- EDM - Materials
- ESPEC - Atomic spectrometry
- FER - Fermented beverages
- FOR – Forestry
- PFOFB - Forestry at Fray Bentos
- LACAM - Milk/Dairy, Meat, Fruit, Vegetables and Honey Products
- MAM - Environmental
- MAMFB - Environmental at Fray Bentos
- MIC - Microbiology
- MICFB - Microbiology at Fray Bentos
- PLA-EMP - Plastics and Packaging
- PQAR - Waters and chemical products
- PQAFB - Waters and chemical products at Fray Bentos
- TEX-LAN-CUE - Textiles, Raw Wool, Tops and Leather
- TOX - Natural toxins
- UPT - Thermal processes

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)
Customer premises where ovens are situated, managed from Montevideo	Oven qualification and performance qualification (performance testing)	Site (UPT)
Environmental sites, managed from Montevideo or Fray Bentos	Sampling waters and sediments	Site (Environmental - MAM, MAMFB, MIC, MICFB, PQAR or PQAFB)



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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 FEEDS	<u>Chemical and Physical Tests</u>	Documented In-House Methods identified by method number based on standard methods or standard methods	
	Ash	PEC.LACAM.MPCC.C020 based on UNIT 548-82	Lab - LACAM
	Moisture (Loss on drying)	PEC.AYE.004/ PEC.LACAM.MPCC.H007 based on AOAC 18 th edition, 2005, revision 2, 2007 method 930.15	Lab - LACAM
	Free Fat	PEC.LACAM.MPCC.M004 based on Tecator Application Notes and UNIT 547-82	Lab - LACAM
	Crude Fibre	PEC.LACAM.MPCC.F002 based on AOAC 18 th edition 2005, revision 2, 2007 method 978.10 and UNIT 635-81	Lab - LACAM
	Phosphorus	PEC.LACAM.MPCC.F005 Vanadomolbdosphoric acid colourimetric method based on APHA 4500-PC 21 st ed, 2005 and UNIT 548/82, a	Lab - LACAM
MILK and DAIRY PRODUCTS	<u>Chemical and Physical Tests</u>		
Butter Butter Oil	Moisture	PEC.AYE.004/ PEC.QCO.QLAC.009 based on FIL 80:1977	Lab - LACAM



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MILK and DAIRY PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
Butter Butter Oil Milk Fat	Fat acidity	PEC.LACAM.QLAC.007 based on Association of Official Analytical Chemists (AOAC) 2005, revision 2, 2007 969.17 33.6.08	Lab - LACAM
	Moisture	PEC.AYE.004/ PEC.LACAM.QLAC.010 based on IDF 78C:1991	Lab - LACAM
Cheese	Moisture	PEC.AYE.004/ PEC.QCO.QLAC.004 based on IDF 4:2004 ISO 5534:2004	Lab - LACAM
Dried Cheese	Moisture	PEC.AYE.004/ PEC.LACAM.010 based on IDF 26A:1993	Lab - LACAM
Cheese Dried Cheese	Ash	PEC.QCO.QLAC.014 based on AOAC 2005, revision 2, 2007, 935.42	Lab - LACAM
	Chloride	PEC.LACAM.QLAC.002 based on AOAC 2005, revision 2, 2007, 935.43	Lab - LACAM
	Fat	IDF 5B:2004 (Reference Method) ISO 1735:2004	Lab - LACAM
	Fat	PEC.LACAM.QLAC.001 based on ISO 3433:2008/ IDF 222:2008	Lab - LACAM
Cream	Fat	PEC.QCO.QLAC.031 based on BS 696 Parts 1 and 2: 1989 and IDF 152A:1997	Lab - LACAM
Dried Milk	Acidity (titratable)	PEC.LACAM.QLAC.043 based on IDF 86:1981	Lab - LACAM



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MILK and DAIRY PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
Dried Milk, Milk Powders, Casein and Caseinates	Ash	PEC.QCO.QLAC.014 based on AOAC 2005, revision 2, 2007, 930.30 and IDF 89 and 90:1979	Lab - LACAM
	Moisture Content	PEC.AYE.004/ PEC.LACAM.QLAC.010 based on IDF 26A:1993 and IDF 78C:1991	Lab - LACAM
Dried Milk	Fat	PEC.QCO.QLAC.021 Reference Method based on IDF 9C:2004 and 127A:2004/ ISO 5543:2004	Lab - LACAM
Dried Milk, Casein, Caseinates, Milk Powders	Fat	PEC.QCO.QLAC.011 Routine method based on IDF 226:2008/ ISO 2446:2008	Lab - LACAM
Milk (liquid)	Fat	IDF 1D:1996 Reference Method	Lab - LACAM
	Fat	PEC.QCO.QLAC.024 based on ISO 2446:2008/ IDF 226:2008	Lab - LACAM
Skimmed Milk	Fat	PEC.QCO.QLAC.011/ PEC.QCO.QLAC.024 based on ISO 2446:1976	Lab - LACAM
	Total Solids (moisture)	PEC.AYE.004/ PEC.QCO.QLAC.023 based on IDF 21B:1987	Lab - LACAM
Milk (liquid), Cream	Acidity	PEC.LACAM.043 based on IDF 86:1981	Lab - LACAM
Dulce de Leche	Fat	PEC.LACAM.QLAC.001 based on ISO 3433:2008/ IDF 222:2008 and IDF 152A:1997	Lab - LACAM



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Dulce de Leche (cont'd)	Total Solids (moisture)	PEC.AYE.004/ PEC.LACAM.QLAC.020 based on IDF 5B:1991(1993)	Lab - LACAM
Milk and other dairy Products (liquid and semi-solid)	Ash	PEC.QCO.QLAC.028 based on AOAC 2005, 945.46 33.2.10	Lab - LACAM
Dairy Products	Nitrogen (Protein by Calculation)	PEC.LACAM.QLAC.013 based on IDF 20-2:2001/ ISO 8968-2:2001	Lab - LACAM
Dairy Products	pH	PEC.LACAM.QLAC.005 based on IDF 115A:1989	Lab - LACAM
FOODS	<u>Chemical and Physical Tests</u>		
General	Ash	PEC.AYE.005/ PEC.QCO.MPCC.C020 based on UNIT 548-82	Lab - LACAM
HONEY	<u>Chemical and Physical Tests</u>		
	Acidity (free)	PEC.LACAM.MPCC.A001 colourimetric method based on AOAC 18 th edition 2005, revision 2, 2007, 962.19	Lab - LACAM
	Hydroxymethyl-furfural	PEC.LACAM.MPCC.H006 White method based on AOAC 18 th edition 2005, revision 2, 2007, 980.23	Lab - LACAM
	Moisture	PEC.LACAM.MPCC.H001 refractometric method based on AOAC 18 th edition 2005 revision 2, 2007, 969.38B	Lab - LACAM
MEAT AND MEAT PRODUCTS	<u>Chemical and Physical Tests</u>		
	Ash	PEC.LACAM.CAR.040 using muffle furnace based on ISO 936 1998-08-01	Lab - LACAM



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MEAT AND MEAT PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
	Fat	PEC.LACAM.CAR.038 by Soxhlet based on ISO 1444:1996	Lab - LACAM
	Moisture	PEC.AYE.004, PEC.LACAM.CAR.037 by air drying based on AOAC 18 th edition 2005 revision 2, 2007, 950.46 B:2005	Lab - LACAM
FRUIT FRUIT PRODUCTS	Nitrogen	PEC.LACAM.CAR.039 by Kjeldahl incorporating ISO 937 1978	Lab - LACAM
	<u>Chemical and Physical Tests</u>		
	Acidity	PEC.LACAM.QFYH.001 based on ISO/FDIS 750:1998 (E)	Lab - LACAM
	Ash	PEC.LACAM.QFYH.029 based on ISO 928:1997 (E)	Lab - LACAM
Citrus Juices	Soluble Solids	PEC.LACAM.QFYH.019 based on ISO 2173:2003 (E)	Lab - LACAM
	pH	PEC.LACAM.QFYH.015 based on ISO 1842:1991 (E)	Lab - LACAM
	Suspended pulp in juices containing 6 - 8 % pulp	PEC.LACAM.QFYH.016 based on IFFJP Analysis No 60, 1991 using centrifugation	Lab - LACAM
BAKERY PRODUCTS	<u>Chemical and Physical Tests</u>		
	Moisture	PEC.AYE.004/ PEC.CEMIC.CER.220 based on AACC 44 - 15 A	Lab -CEMIC



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BREWING RAW MATERIALS	<u>Chemical and Physical Tests</u>		
Barley	Moisture	PEC.AYE.004/ PEC.CEMIC.MIM.002 using drying oven based on EBC 3.2	Lab - CEMIC
	Nitrogen and Crude protein (by calculation)	PEC.CEMIC.MIM.003 using Kjeldahl	Lab - CEMIC
Malt	Moisture	PEC.AYE.004/ PEC.CEMIC.MIM.008 using drying oven based on EBC 4.2	Lab - CEMIC
Malt	Nitrogen and Crude protein (by calculation)	PEC.CEMIC.MIM.009 using Kjeldahl	Lab - CEMIC
FATS and OILS	<u>Chemical and Physical Tests</u>		
	Colour- Lovibond	PEC.CEMIC.CER.405 based on AOCS Cc 13e-92	Lab - CEMIC
	Ether insoluble impurities	PEC.CEMIC.CER407 based on American Oil Chemists Society AOCS Ca 3a-46 Reap. 1997	Lab - CEMIC
	Free fatty acids	PEC.CEMIC.CER402 based on American Oil Chemists Society AOCS Ca 5a-40 Reap. 1997	Lab - CEMIC
	Moisture and Volatile Matter by Air Oven	PEC.CEMIC.CER406 based on AOCS Ca 2c-25 Reap. 1997	Lab - CEMIC
	Peroxide value	PEC.CEMIC.CER401 based on AOCS Cd 8b-90 Rev. 2003	Lab - CEMIC
FOODS, GRAINS AND CEREAL PRODUCTS	<u>Chemical and Physical Tests</u>		
	Water activity	PEC.CEMIC.CER.501	Lab - CEMIC



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RICE	<u>Chemical and Physical Tests</u>		
	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	Lab - CEMIC
	Extractable matter (Fat)	PEC.AYE.003/ ITR.CER.004 using Soxtec solvent extraction system	Lab - CEMIC
	Free fatty acids in rice oil (free fatty acids - total fat and moisture in rice)	PEC.CEMIC.CER.001 based on AACC (American Association of Cereal Chemist) Method 02-01A (Final approval 10.03.84, Reap. 3, Nov 99)	Lab - CEMIC
	Moisture content	PEC.AYE.004/PEC.CEMIC.CER.007 based on Decreto MGAP No 544/987	Lab - CEMIC
ALCOHOLIC BEVERAGES	<u>Chemical and Physical Tests</u>		
Wine	Alcoholic strength by volume	PEC.FER.001 using distillation and electronic densimeter based on OIV-MA-AS312-01A (Resolution Oeno 8/2000-377/2009), Ed 2010	Lab-FER
	Acidity (Total)	PEC.FER.003 based on OIV (A10) OIV-MA-AS313-01, Ed 2010	Lab-FER
	Acidity (Volatile)	PEC.FER.002 using distillation and titration based on OIV (A11) OIV-MA-AS313-02, Ed 2010	Lab-FER



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ALCOHOLIC BEVERAGES (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
	Density	PEC.FER.004 using electronic densimeter based on OIV-MA-AS312-01A (Resolution Oeno 377/2009), Ed 2010	Lab-FER
	pH	PEC.FER.005 based on OIV-MA-AS313-15, Ed 2010	Lab-FER
	Reducing Sugars in white wine	PEC.FER.008 based on OIV (A4) OIV-MA-F-AS311-01-SUCRED, Ed 2009 (Withdrawn)	Lab-FER
	Sulphur Dioxide (Total)	PEC.FER.006 using distillation and titration based on OIV-MA-AS323-04A (Resolution Oeno 377/2009), Ed 2010	Lab-FER
ANIMAL FEEDS, CEREALS FOOD AND DAIRY as specified	<u>Chemical and Physical Tests</u>		
Dairy products including Cheese, Milk, Milk powders, Liquid Dairy Products (flavoured milks, yoghurt) and dairy desserts (Pudding)	Aflatoxin M ₁	PEC.TOX.075 based on AOAC 1975:26.084, IDF Standard 171:1995 using SPE column clean up and HPLC	Lab - TOX
Animal Feeds, Grains and by-products, Nuts, Dried Fruits, Grapes and by-products/finished products	Aflatoxin B ₁ , B ₂ , G ₁ , G ₂	PEC.TOX.002 based on AOAC 2010:970.45 using TLC	Lab - TOX
	Aflatoxin B ₁ , B ₂ , G ₁ , G ₂	PEC.TOX.045 based on AOAC 2010:993.17 using SPE column clean up and TLC	Lab - TOX



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ANIMAL FEEDS, CEREALS FOOD AND DAIRY as specified (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
Animal Feeds, Grains and by-products, Nuts, Dried Fruits, Grapes and by-products/finished products (cont'd)	Aflatoxin B ₁ , B ₂ , G ₁ , G ₂	PEC.TOX.053 based on AOAC 2010:993.17 and Journal of Association of Official Analytical Chemists 1994 <u>77</u> , 1512-1521 using HPLC	Lab - TOX
Animal Feeds, Grains and by-products/finished products	Deoxynivalenol (DON)	1) PEC.TOX.005 based on AOAC 2010:986.17 using TLC 2) PEC.TOX.063 based on AOAC 2010:986.17 and Journal of Association of Official Analytical Chemists 70(3), 1987, 479-483 using HPLC	Lab - TOX
Animal Feeds, Grains and by-products/finished products	Ergot alkaloids	PEC.TOX.061 based on J E Fajardo, J E Dexter, M M Roscoe, T W Nowicki. Retention of Ergot Alkaloids in Wheat During processing. Cereal Chem. 1995, 72 (3), 291-298 using HPLC	Lab - TOX
Animal Feeds, Grains and by-products/finished products	Fumonisin B ₁ , B ₂	PEC.TOX.050 based on AOAC 2010:995.15 using HPLC	Lab - TOX
Animal feeds, Grains and by-products, Nuts, Dried Fruits, Grapes and by-products/finished products	Ochratoxin A	PEC.TOX.002 based on AOAC 2010:970.45 using TLC	Lab - TOX
	Zearalenone	PEC.TOX.002 based on AOAC 2010:970.45 using TLC	Lab - TOX
Wine	Ochratoxin A	PEC.TOX.072 based on Analytica Chimica Acta 566 2006:117-121 using HPLC and fluorescence detection	Lab - TOX



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WATERS Potable, fresh surface and groundwaters	<u>Chemical and Physical Tests</u> Microcystin - LR (cyanobacterial toxin)	PEC.TOX.071 based on, The Analyst 119, 1525-1530, 1994 and ISO 20179:2005/ UNIT 883:2008 using HPLC	Lab - TOX
ANIONIC DETERGENTS	<u>Chemical and Physical Tests</u> Anionic active matter	PEC.PQAR.204 based on ASTM D1681-05	Lab - PQAR
WATERS Potable, fresh surface and groundwaters, unless specifically indicated	<u>Chemical and Physical Tests</u> Alkalinity (total)	PEC.PQAR.105 based on ASTM D1067-06	Lab - PQAR
	Anions at low contamination levels: Fluoride Chloride Nitrate Sulphate	PEC.PQAR.113 using ion chromatography based on ISO 10304-1:2007	Lab - PQAR
Potable water	Bromates	PEC.PQAR.113 based on EPA 300.1:1997	Lab - PQAR
	Chloride	PEC.PQAR.109 Argentometric Method based on APHA 2005 21 st Edition, 4500 Cl-B	Lab - PQAR
	Hardness (total)	PEC.PQAR.106 based on APHA 2005 21 st Edition, 2340	Lab - PQAR
Fresh surface water	Dissolved Organic Carbon (DOC)	PEC.PQAR.605 based on ISO 8245:1999	Lab - PQAR



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<p>WATERS Potable, fresh surface and groundwaters, unless specifically indicated (cont'd)</p> <p>Fresh surface water</p>	<p><u>Chemical and Physical Tests</u> (cont'd)</p> <p>Total Organic Carbon (TOC)</p> <p>pH</p> <p>Total solids</p>	<p>PEC.PQAR.605 based on ISO 8245:1999</p> <p>PEC.PQAR.101 based on APHA 2005, 21st Edition, 4500 H</p> <p>PEC.PQAR.104 based on APHA 2005, 21st Edition, 2540</p>	<p>Lab - PQAR</p> <p>Lab - PQAR</p> <p>Lab - PQAR</p>
<p>WATERS and EFFLUENTS Potable, fresh surface and groundwaters and wastewater effluents, unless specifically indicated</p> <p>Fresh surface water, waste water and wastewater effluents</p> <p>Waste water effluents</p>	<p><u>Chemical and Physical Tests</u></p> <p>Absorbable Organic Halogens (AOX)</p> <p>Chlorates</p> <p>Conductivity</p> <p>Cyanides (total and free)</p> <p>Extractable matter (by solvent)</p> <p>Total Nitrogen (TN)</p>	<p>PEC.PQAR.604 based on ISO 9562:2004</p> <p>PEC.PQAR.113 based on EPA 300.1:1997</p> <p>PEC.PQAR.112 based on ISO 7888:1985 and APHA 2520, 21st Edition, methods A and B</p> <p>PEC.PQAR.602 based on EPA 335.4:1993</p> <p>PEC.PQAR.007 by Soxtec</p> <p>PEC.PQAR.606 based on ISO 11905-2:1997</p>	<p>Lab - PQAR</p> <p>Lab - PQAR</p> <p>Lab - PQAR</p> <p>Lab - PQAR</p> <p>Lab - PQAR</p> <p>Lab - PQAR</p>



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WATERS and EFFLUENTS Potable, fresh surface and groundwaters and wastewater effluents , unless specifically indicated (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
Fresh surface water and wastewater effluents	Kjeldahl Nitrogen (KjN)	PEC.PQAR.608 based on ISO 5663:1984 (mineralisation with selenium)	Lab - PQAR
Fresh surface water, waste water and wastewater effluents	pH	PEC.PQAR.001 based on ASTM 1293-99 (re approved 2005)	Lab - PQAR
Fresh surface and groundwaters and wastewater effluents	Phenols	PEC.PQAR.603 using colorimetric measurement based on EPA 420.1, 1978	Lab - PQAR
	Settleable solids	PEC.PQAR.002 based on APHA 2005, 21 st Edition, 2540, method F	Lab - PQAR
	Total solids	PEC.PQAR.003 based on APHA 2005, 21 st Edition, 2540, methods A and B	Lab - PQAR
	Total suspended solids	PEC.PQAR.006 based on APHA 2005, 21 st Edition, 2540, method D	Lab - PQAR
	Total dissolved solids	PEC.PQAR.004 based on APHA 2005, 21 st Edition, 2540, method B	Lab - PQAR
WATERS and EFFLUENTS Wastewater effluents	<u>Chemical and Physical Tests</u> Biochemical Oxygen Demand (BOD 5)	PEC.PQAR.010 by manometric monitoring using HACH BODTrack	Lab - PQAR



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WATERS and EFFLUENTS Wastewater effluents	<u>Biological toxicity Tests</u> Determination of toxicity using <i>Daphnia magna</i> immobilisation test (EC50) or lethality test (LC 500)	PEC.PQAR.607 based on EPS1/RM/14 Environmental Protection Series. Environment Canada, Ottawa, 2 nd Edition, December 2000	Lab - PQAR
WATERS and EFFLUENTS Potable, fresh surface and groundwaters and wastewater effluents	<u>Chemical and Physical Tests</u> Ammonium	PEC.PQAFB.012 based on APHA 4500 NH3-D:1997 modified and ISO 6778	Lab - PQAFB
	Chemical Oxygen Demand (COD) (DQO)	PEC.PQAFB.009 by colorimetric measurement after digestion using HACH colorimeter based on ISO 15705:2002	Lab - PQAFB
	Colour	PEC.PQAFB.011 based on ISO 7887:1994, section 4	Lab - PQAFB
	Conductivity	PEC.PQAFB.112 using conductivity meter based on ISO 7888:1985	Lab - PQAFB
	pH	PEC.PQAFB.001 using pH meter based on APHA 4500-HB:2000 and ASTM D 1293:2005	Lab - PQAFB
	Total Phosphorus	PEC.PQAFB.013 based on ISO 15681-2 and APHA 4500-P:1999, QuickChem Method 31-115-01-3D	Lab - PQAFB
	Soluble Phosphorus	PEC.PQAFB.014 based on ISO 15681-2 and APHA 4500-P:1999, QuickChem Method 31-115-01-3D	Lab - PQAFB



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WATERS and EFFLUENTS Potable, fresh surface and groundwaters and wastewater effluents (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
	Total suspended solids	PEC.PQAFB.006 gravimetric measurement after oven drying based on APHA 2540-D:1997 equivalent to ISO 11923:1997	Lab - PQAFB
	Nitrates	PEC.PQFB.015 based on ISO 13395:1996	Lab - PQAFB
	Nitrites	PEC.PQFB.015 based on ISO 13395:1996	Lab - PQAFB
WATERS and EFFLUENTS Wastewater effluents	<u>Chemical and Physical Tests</u>		
	Biochemical Oxygen Demand (BOD 5)	PEC.PQAFB.010 by manometric monitoring using HACH BODTrack based on APHA 5210-D:2001	Lab - PQAFB
WATERS Potable, fresh surface and groundwaters	<u>Chemical and Physical Tests</u>		
	Arsenic	PEC.ESPEC.012 using graphite furnace AAS based on ISO 15586:2003	Lab - ESPEC
	Cadmium	PEC.ESPEC.012 using graphite furnace AAS based on ISO 15586:2003	Lab - ESPEC
	Copper	PEC.ESPEC.001 based on ISO 8288:1986, Test Method A	Lab - ESPEC
	Iron	PEC.ESPEC.008 based on ASTM Norma D-1068-05, ¹ Test method A	Lab - ESPEC
	Lead	PEC.ESPEC.009 using graphite furnace AAS based on ASTM Norma D-3559-08, Test method D	Lab - ESPEC



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WATERS Potable, fresh surface and groundwaters (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)		
	Manganese	PEC.ESPEC.007 based on ASTM Norma D-858-07, Test method A	Lab - ESPEC
	Mercury	PEC.ESPEC.010 based on ISO 5666:1999 using Cold Vapour AAS	Lab - ESPEC
	Selenium	PEC.ESPEC.012 using graphite furnace AAS based on ISO 15586:2003	Lab - ESPEC
	Sodium	PEC.ESPEC.002 based on AOAC 973.54 - 2007	Lab - ESPEC
EFFLUENTS Wastewater Effluents	Zinc	PEC.ESPEC.006 based on ASTM Norma D-1691-02, (2007) ϵ^1 Test method A	Lab - ESPEC
	<u>Chemical and Physical Tests</u>		
WATERS Potable, fresh surface and groundwaters	Mercury	PEC.ESPEC.010 based on ISO 15587-2, Annex C:2002 and ISO 5666:1999 using Cold Vapour AAS	Lab - ESPEC
	<u>Chemical and Physical Tests</u>		
WATERS Potable, fresh surface and groundwaters	Organochlorine Pesticides:		
	Aldrin	PEC.CROMA.001 using GC-ECD and GC-MS based on UNE-EN-ISO 6468:1996	Lab - CROMA
	Dieldrin		
	Endrin		
	Heptachlor		
	Heptachlor epoxide		
	Hexachlorobenzene		
	Lindane (γ -HCH)		
	Methoxychlor		



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FOODS	<u>Chemical and Physical Tests</u>		
Fats and Oils	Fatty acid profile	PEC.CROMA.005 using GC-MS based on AOCS Official Method Ce 2-66, Ce 1-62	Lab - CROMA
Foods general	Fatty acid with fat extraction	PEC.CROMA.009 Folch method	Lab - CROMA
Soft drinks, regular and decaffeinated coffee, tea, infusions and jerba	Caffeine	PEC.CROMA.008 using Liquid chromatography with DAD detector	Lab - CROMA
Honey, soft drinks, preserves and drinks powders	Sugars: Glucose, Fructose, Sucrose	PEC.CROMA.004 using HPLC and RI detection	Lab - CROMA
Milk (raw and heat treated) and Milk powder	Lactose	PEC.CROMA.016 based on ISO 22662 IDF 198:2007	Lab - CROMA
FOODS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated	<u>Microbiological Tests</u>		
	Detection:		
	<i>Salmonella</i> spp	PEC.MIC.023 based on ISO 6579:2002	Lab - MIC
	<i>Salmonella</i> spp	PEC.MIC.024 using selective culture enrichment and presumptive detection by reverse transcriptase PCR and AOAC OMA Official methods No 2003.09, with serological and biochemical confirmation using PEC.MIC.023 if required	Lab - MIC
	Detection and confirmation:		
	<i>Listeria monocytogenes</i>	PEC.MIC.022 based on ISO 11290-1:1996	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)		
	Detection and confirmation: (cont'd)		
Meat and Meat Products only	<i>Listeria monocytogenes</i>	PEC.MIC.026 using selective culture enrichment and presumptive detection by reverse transcriptase PCR and AOAC OMA Official methods No 2003.12, with biochemical confirmation using PEC.MIC.022 if required	Lab - MIC
	Presumptive <i>E coli</i> O157 H7	PEC.MIC.027 using selective culture enrichment and presumptive detection by reverse transcriptase PCR and AOAC RI Official methods No 010401	Lab - MIC
	Enumeration:		
Meat products only	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, 4 th Edition, 2001	Lab - MIC
	Aerobic colony count	PEC.MIC.038 using Biomerieux TEMPO TVC	Lab - MIC
	Aerobic colony count at 30 °C for 72 hr	PEC.MIC.029 based on ISO 4833:2003	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 4 th Edition, 2001	Lab - MIC
	Total Coliforms	PEC.MIC.036 using Biomerieux TEMPO TC	Lab - MIC



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOODS including dairy products, meat and meat products and ready to eat foods, unless otherwise stated (cont'd)	<u>Microbiological Tests</u> (cont'd)		
Meat products only (cont'd)	Enterobacteriaceae at 35.5 °C	PEC.MIC.031 based on ISO 21528-2:2004 but with deviation as agreed by customer	Lab - MIC
	<i>Escherichia coli</i>	PEC.MIC.037 using Biomerieux TEMPO EC	Lab - MIC
	Coagulase-positive staphylococci	PEC.MIC.020 based on APHA Compendium of Methods for the Microbiological Examination of Foods, 4 th Edition, 2001	Lab - MIC
Chicken (processed)	<i>Listeria monocytogenes</i>	PEC.MIC.035 based on ISO 11290-2 1998	Lab - MIC
WATERS and EFFLUENTS	<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, 21st Edition, 2005, Item 9215 A and B	Lab - MIC
Potable, including mineral water, fresh surface and groundwater and wastewater effluents	Coliforms Thermotolerant coliforms <i>Escherichia coli (presumptive)</i>	PEC.MIC.030 incorporating ISO 9308-2:1990 using MPN technique	Lab - MIC
Potable, including mineral water	Total coliforms <i>Escherichia coli (presumptive)</i>	PEC.MIC.016 using Endo Agar based on Standard methods for the examination of water and waste water APHA, 21st Edition, 2005, Item 9222B using membrane filtration technique	Lab - MIC



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WATERS and EFFLUENTS (cont'd)	<u>Microbiological Tests</u> (cont'd)		
Sea water, fresh surface waters and effluents	Enumeration: (cont'd) Total coliforms Thermotolerant (faecal) coliforms	PEC.MIC.016 using mFC Agar based on Standard methods for the examination of water and waste water APHA, 21st Edition, 2005, Item 9222D using membrane filtration technique	Lab - MIC
Potable, including bottled and mineral waters, and groundwater, including boreholes and wells	Isolation and enumeration of <i>Pseudomonas aeruginosa</i>	PEC.MIC.034 based on Standard methods for the examination of water and waste water APHA, 21st Edition, 2005 Method 9213	Lab - MIC
WATERS	<u>Microbiological Tests</u>		
Potable waters, including mineral water	Total aerobic colony count	PEC.MIC.018 based on Standard methods for the examination of water and waste water APHA, 21st Edition, 2005, Item 9215 A and B	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	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, 21st Edition, 2005, Item 9222B using membrane filtration technique	Lab - MICFB



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<p>WATERS (cont'd)</p> <p>Sea water and ground water</p>	<p><u>Microbiological Tests</u> (cont'd)</p> <p>Total coliforms Thermotolerant (faecal) coliforms</p>	<p>PEC.MIC.016 using mFC Agar based on Standard methods for the examination of water and waste water APHA, 21st Edition, 2005, Item 9222D using membrane filtration technique</p>	<p>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, 21st Edition, 2005, Method 9213</p>	<p>Lab - MICFB</p>
<p>WATERS</p> <p>Freshwaters</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 - MAM</p>
<p>WATERS and SEDIMENTS</p> <p>Surface river waters</p>	<p><u>Sampling</u></p> <p>Collection of samples for biological examination (plankton)</p>	<p>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 21st Edition, 2005, Part 10200</p>	<p>Site (Environmental - MAM/MAMFB)</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>WATERS and SEDIMENTS (cont'd)</p> <p>Surface river, ground and tap waters</p>	<p><u>Sampling</u> (cont'd)</p> <p>Collection of samples for microbiological analysis</p>	<p>ITR.MIC.051 and ITR.MUA.205 based on Standard Methods for the Examination of Water and Wastewater - APHA 21st Edition, 2005, Part 9060A</p>	<p>Site (Environmental - MIC/MICFB)</p>
<p>Surface waters</p>	<p>Collection of samples for physicochemical analysis</p>	<p>PRD.MUA.007 based on ISO 5667-6</p>	<p>Site (Environmental - PQAR/PQFB)</p>
<p>Ground waters</p>	<p>Collection of samples for physicochemical analysis</p>	<p>PRD.MUA.006 by low flow purging and sampling for wells based on ASTM D 6771-02</p>	<p>Site (Environmental - PQAR/PQFB)</p>
<p>River Sediments</p>	<p>Collection of grab samples for physicochemical analysis</p>	<p>PRD.MUA.005 based on ASTM E1391-03 (Reapproved 2008)</p>	<p>Site (Environmental - PQAR/PQFB)</p>
<p>River Sediments</p>	<p>Collection of grab samples for biological examination, benthic invertebrates</p>	<p>PRD.MUA.005 based on ASTM E1391-03 (Reapproved 2008)</p>	<p>Site (Environmental - MAM/MAMFB)</p>
<p>PACKAGING, TEXTILES and RELATED MATERIALS</p>	<p><u>Physical and Performance Tests</u></p>		
<p>Materials suitable under flexible scope (excluding joins (seams) between two pieces of material when prepared by the laboratory) to include:</p> <p>TEXTILES Material or product of fibres, yarn intermediates, yarns, fabrics, and products that retain all the strength, flexibility, and other typical properties of the original fibre or filament</p>	<p>1) Tensile strength test at constant rate:</p> <p>Maximum tensile force that test specimens will withstand while the jaws holding it are separated at a constant predefined rate.</p> <p>2) Tensile extension test:</p> <p>Extension that corresponds to the instant that the test specimen reaches maximum load</p>	<p>PEC.AYE.001 flexible scope procedure using the appropriate tensile test equipment:</p> <p>Within the defined parameters: Traverse type: CRE Dynamometer ISO 7500-1:2004 with corrigendum 2008 Performance Class: 0.5 - 2 Force 0.5-2000 kgf with an accuracy of up to ± 5 %</p>	<p>Lab-FOR Lab-PLA-EMP Lab-TEX-LAN-CUE</p>



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<p>PACKAGING, TEXTILES and RELATED MATERIALS (cont'd)</p> <p>Materials suitable under flexible scope (excluding joins (seams) between two pieces of material when prepared by the laboratory) to include: (cont'd)</p> <p>FORESTRY PRODUCTS Material or product composed mostly of cellulose</p> <p>PLASTICS plastic material or product of any thickness less than 14 mm</p> <p>CORK PLUGS Cork plugs</p> <p>LEATHER Material or product from the skin of an animal which has received treatment and has not been manufactured into a product</p>	<p><u>Physical and Performance Tests</u> (cont'd)</p>	<p>PEC.AYE.001 flexible scope procedure using the appropriate tensile test equipment: (cont'd)</p> <p>Within the defined parameters: (cont'd)</p> <p>Maximum extension: 1050 mm (jaw not included) Rate 0-500 mm/min Specimen form: <575 mm wide and <1050 mm long of infinite thickness Or infinite width, <250 mm long and <100 mm of thick</p> <p>Under environmental conditions: 20 ± 2 °C at 65 ± 5 % H.R. or 23 ± 1 °C at 50 ± 5 % H.R. or 23 ± 2 °C at 50 ± 5 % H.R.</p>	<p>Lab-FOR Lab-PLA-EMP Lab-TEX-LAN-CUE</p>
<p>FORESTRY PRODUCTS</p> <p>Paper</p> <p>Paper</p>	<p><u>Physical and Performance Tests</u></p> <p>Grammage (Mass per unit area)</p> <p>Moisture</p>	<p>PEC.FOR.003 based on regional standard UNIT/NM/ISO 536, BS EN ISO 536:1997 and TAPPI 410 om-08</p> <p>PEC.AYE.004/ PEC.FOR.013 incorporating TAPPI T412 om-06 and regional standard UNIT NM 105-98</p>	<p>Lab - FOR</p> <p>Lab - FOR</p>



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FORESTRY PRODUCTS (cont'd)	<u>Physical and Performance Tests (cont'd)</u>		
Paper	Specific Volume by calculation	PEC.FOR.002 based on UNIT ISO 534:2005	Lab - FOR
Paper	Tensile strength	PEC.AYE.001/ PEC.FOR.014 incorporating UNIT NM ISO 1924/2:2001	Lab - FOR
Paper	Thickness	PEC.FOR.002, including sample selection as ITR.FOR.005, based on regional standard UNIT/NM/ISO 534, BS EN ISO 534:2005 and TAPPI 411 om.05	Lab - FOR
Wood	Apparent specific weight (basic density)	PEC.FOR.011 by immersion based on TAPPI 258 om-06	Lab - FOR
Wood chips	Apparent specific weight (basic density)	PEC.FOR.016 based on ASTM D 2395	Lab - FOR
Wood	Moisture	PEC.AYE.004/PEC.FOR.007 incorporating ASTM D4442-07	Lab - FOR
Pulp	Preparation of laboratory sheets for the pulp tests below	PRD.PFOFB.003 according to ISO 5269-1:2005	Lab - PFOFB
Pulp	Grammage (mass per unit area)	PEC.PFOFB.004 based on ISO 5270:1998; UNIT-NM-ISO 536:2000	Lab - PFOFB
Pulp	Thickness	PEC.PFOFB.006 based on ISO 5270:1998; ISO 534:2005	Lab - PFOFB
Pulp	Specific Volume by calculation	PEC.PFOFB.006 based on ISO 5270:1998	Lab - PFOFB
Pulp	Tensile strength	PEC.PFOFB.009 based on ISO 5270:1998 and NM-ISO 1924-2:2001	Lab - PFOFB



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WOOL: RAW WOOL, TOPS and SLIVERS	<u>Sampling for Physical Tests</u>	PRD.LAN.001 to implement IWTO Core Test sampling and Test Regulations	Site (TEX-LAN-CUE)
WOOL	<u>Physical and Performance Tests</u>		
RAW WOOL	IWTO Core Test Regulations for moisture	Amendments May & Aug 1999 Amendments April & Oct 2000 Amendment May 2001 Amendment Nov 2001 Amendment April 2003 Amendment February 2004 Amendment August 2004 Amendment May 2005 Amendment November 2005 Amendment May 2006 Amendment May 2007	Lab - TEX-LAN-CUE
WOOL	<u>Physical and Performance Tests</u>		
Raw Wool	Measurement of the mean and distribution of fibre diameter using the Sirolan-Laserscan Fibre Diameter Analyser	IWTO-12-09	Lab - TEX-LAN-CUE
Raw Wool	Determination of wool base and vegetable matter base of core samples of raw wool <i>Amendment APPROVED Cairo, May 2006</i>	IWTO-19-03 Amendment issued May 2006	Lab - TEX-LAN-CUE
Raw Wool	Determination by the airflow method of the mean fibre diameter <i>of core samples of raw wool</i>	IWTO-28-00	Lab - TEX-LAN-CUE



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WOOL (cont'd)	<u>Physical and Performance Tests</u> (cont'd)		
SCOURED OR CARBONISED WOOL	IWTO Condition Testing Regulations for Scoured or Carbonised Wool for moisture	Nov 97 Amendment May 1999	Lab - TEX-LAN-CUE
Scoured or Carbonised Wool	Method for the determination of dichloromethane soluble matter in combed wool sliver and commercially scoured or carbonised wool	IWTO-10-03	Lab - TEX-LAN-CUE
Scoured or Carbonised Wool	Method for the determination of oven-dry mass and calculated invoice mass of scoured or carbonised wool	IWTO-33-98	Lab - TEX-LAN-CUE
COMBED WOOL SLIVER	IWTO Condition Testing Regulations for Wool Tops for moisture	March 1996 Re-Issue May 1997	Lab - TEX-LAN-CUE
Combed Wool Sliver	Method for the determination of Dichloromethane soluble matter in combed wool sliver and commercially scoured or carbonised wool	IWTO-10-03	Lab - TEX-LAN-CUE
Combed Wool Sliver	Determination of oven-dry mass, calculated invoice mass and calculated merchantable mass of wool tops	IWTO-34-98	Lab - TEX-LAN-CUE
COMBED WOOL SLIVER	IWTO Regulations for the Testing of Wool Slivers for Mean Fibre Diameter and Mean Fibre Length	February 1995 Amendment November 1996 and May 1997 Date of Issue: May 1997	Lab - TEX-LAN-CUE
Combed Wool Sliver	Method of test for the determination of the mean diameter of wool fibres in combed sliver using the airflow apparatus	IWTO-6-98	Lab - TEX-LAN-CUE



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WOOL (cont'd)	<u>Physical and Performance Tests</u> (cont'd)		
COMBED WOOL SLIVER (cont'd)			
Combed Wool Sliver	Measurement of the mean and distribution of fibre diameter using the Sirolan-Laserscan Fibre Diameter Analyser	IWTO-12-09	Lab - TEX-LAN-CUE
Combed Wool Sliver	Determination of fibre length and distribution parameters <i>Amendment APPROVED Biella, November 2005</i>	IWTO-17-04 Amendment issued November 2005	Lab - TEX-LAN-CUE
RAW WOOL	IWTO Colour Test Regulations for Raw Wool by visual comparison	June 1996 Amendment June 1998 Amendment April 2000 Correction June 2000 Amendments April 2003 Amendment October 2007 Date of Issue: 9 October 20087	Lab - TEX-LAN-CUE
Raw Wool	Method for the Measurement of colour of raw wool	IWTO-56-07	Lab - TEX-LAN-CUE
WOOL and TEXTILES	IWTO Test Methods		
Wool and Other Animal Fibres	Method of determining fibre diameter distribution parameters and percentage of medullated fibres in wool and other animal fibres by the projection microscope	IWTO-8-04	Lab - TEX-LAN-CUE
Raw Wool	Calculation of IWTO combined Certificates for deliveries of raw wool	IWTO-31-02	Lab - TEX-LAN-CUE
Combed Wool Sliver	Method for the measurement of colour of sliver	IWTO-35-03	Lab - TEX-LAN-CUE



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TEXTILES	<u>Physical and Performance Tests</u> Tensile strength	PEC.AYE.001/ DOC.TEX.001 incorporating ASTM D5035-06(2008)e1 D2261-07a	Lab - TEX-LAN-CUE
PLASTICS Plastic Woven Bags	<u>Physical and Performance Tests</u> Tensile strength	PEC.AYE.001/ DOC.TEX.001 incorporating ASTM D5035-06(2008)e1 D2261-07a	Lab - PLA-EMP
PAINTS	<u>Chemical and Physical Tests</u> Non-volatile/volatile content	ITR.EDM.022 by weight loss on oven drying based on UNIT-ISO 1515:1999	Lab - EDM
TEMPERATURE CONTROLLED ENCLOSURES Ovens	<u>Performance Tests</u> Multiple point temperature profiling: using thermocouples from 0 °C to 180 °C or Pt 1000 sensors from 0 °C to 130 °C	Documented in-house method PEC.UPT.001 in general accordance with ASTM E145-94 (2001)	Lab + Site - UPT
END			