

**LIST OF ACCREDITED ACTIVITIES WITHIN THE FLEXIBLE SCOPE**

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Tested Materials / Products	Types of test/ Properties measured	Applied methods/ Techniques used	DATE OF INTRODUCTION	DATE OF LAST MODIFICATION
1. Water and wastewater	1. Determination of Conductivity (*)	<i>APHA 2510 B<sup>1</sup></i>	13/03/2001	
	2. Determination of Alkalinity	<i>In house method O.106 based on APHA 2320 B</i>	13/03/2001	
	3. Determination of pH (*)	<i>APHA 4500-H<sup>1</sup></i>	13/03/2001	
	4A. Determination of Ammonium (*)	<i>APHA 4500-NH<sub>3</sub>F<sup>1</sup></i>	13/03/2001	
	4B. Determination of Ammonium (*)	<i>In house method O.304 based on DIN 38406-E5-1 and ISO 7150-1</i>	27/05/2011	
	5. Determination of Sulfates (*)	<i>In house method O.306 based on APHA 4500-SO<sub>4</sub></i>	13/03/2001	
	6. Determination of Nitrates (*)	<i>In house method O.305 based on DIN 38405-D9-2 &amp; ISO 7890-1-2</i>	12/04/2002	
	7. Determination of Nitrites (*)	<i>In house method O.301 based on APHA 4500-NO<sub>2</sub>B</i>	26/09/2005	
	8. Determination of Silicates	<i>APHA 4500-SiO<sub>2</sub>C<sup>1</sup></i>	13/03/2001	
	9. Determination of Chloride (*)	<i>APHA 4500-Cl B<sup>1</sup></i>	13/03/2001	
	10. Determination of Turbidity (*)	<i>In house method O.114 based on APHA 2130 B</i>	27/05/2011	
	11. Determination of C.O.D.	<i>In house method O.308 based on DIN 38409-H41 &amp; ISO 6060</i>	27/05/2011	

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	12. Determination of Cyanides (*) (total, free)	<i>In house method O.309</i>	29/05/2012	
	13. Determination of Carbonate	<i>In house method O.106 based on APHA 2320 B</i>	02/08/2013	
	14. Determination of Bicarbonate	<i>In house method O.106 based on APHA 2320 B</i>	02/08/2013	
	15. Determination of Total Solids (*)	<i>APHA 2540B<sup>1</sup></i>	12/12/2014	
	16. Determination of Total Dissolved Solids	<i>APHA 2540C<sup>1</sup></i>	12/12/2014	
	17. Determination of Total Suspended Solids	<i>APHA 2540D<sup>1</sup></i>	12/12/2014	
	18. Determination of Total Nitrogen	<i>In house method O.314/ (photometry)</i>	23/02/2017	
	19. Determination of Total Phosphorus	<i>In house method O.315/ (photometry)</i>	23/02/2017	
	20. Determination of Anions : Bromide, Nitrate (*), Sulphate (*), Fluoride (*), Phosphate (*), Chloride (*)	<i>In house method O.628 by Ion Chromatography</i>	23/04/2013	
	26. Determination of Cr (VI)	<i>EPA 7196 A</i>	29/05/2012	
	27. Determination of Phenols	<i>In house method O.311 based on APHA 5530</i>	03/02/2022	

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	28. Determination of Total Hardness (calculation)	<i>APHA 2340B<sup>1</sup></i>	03/02/2022	
	29. Determination of Anionic Surfactants (MBAS)	<i>In house method O.321 based on APHA 5540 C</i>	16/03/2023	
	30. Determination of Oil & Grease	<i>In house method O.148 based on EPA 1664</i>	13/05/2025	
2. Water and wastewater	Determination of metals (Al*, As*, Ba, Be, Ca, Cd*, Co, Cr*, Cu*, Fe*, K, Mg, Mn*, Mo, Na*, Ni*, P, Pb*, Sb*, Se*, Sn, Sr, <u>Ti</u> , Tl, V, Zn, B*, U*, Hg*, Li)	<i>In house method O.520 based on EPA Method 6020B, ISO 17294-1:2004 &amp; ISO 17294-2:2016 / ICP-MS</i>	03/02/2020	
3. Potable, surface and ground water	1. Determination of Total Hardness (as CaCO <sub>3</sub> )	<i>ELOT 170:1980</i>	13/03/2001	
	2. Determination of Boron (*)	<i>APHA 4500-B B</i>	29/05/2012	
	3. Determination of Bromates (*)	<i>In house method O.624</i>	29/05/2012	
	4. Determination of Acrylamide (*)	<i>In house method O.625</i>	29/05/2012	
	5. Determination of Trihalomethanes (*) (Chloroform, Dichlorobromomethane, Chlorodibromomethane, Bromoform), 1,2-Dichloroethane (*), Trichloroethene (*), Tetrachloroethene (*), Benzene (*), Vinylchloride (*)	<i>In house method O.617</i>	29/05/2012	
	6. Determination of Epichlorohydrin (*)	<i>In house method O.630 based on EN 14207</i>	12/12/2014	

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	7. Determination of Color	<i>APHA 2120 C<sup>l</sup></i>	23/04/2013	
	8. Determination of Chlorine residual (total, free) (*)	<i>In house method O.312</i>	23/04/2013	
	9. Determination of Oxidisability (*) (Permanganate index value)	ELOT 827	23/04/2013	
	10. Determination of 16 Polycyclic Aromatic Hydrocarbons: Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene(*), Benzo[b]fluoranthene(*), Benzo[ghi]perylene(*), Benzo[k]fluoranthene(*), Chrysene, Dibenzo[a.h]anthracene, Fluoranthene, Fluorene, ` Indeno[1.2.3-cd]pyrene(*), Naphthalene, Phenanthrene, Pyrene	<i>In house method O.631 based on EPA 525.3</i>	12/12/2014	
3. Pool water	Determination of Chlorine residual (total, free) (*)	<i>In house method O.312</i>	23/04/2013	
4. Foodstuffs and drinks ESYD G-	1. Determination of metals (As, Ca, Cd**, Cr, Cu, Fe, Hg**, K, Mg, Mn, Na, P, Pb**, Se, Sn**, Zn)	<i>In house method O.521 based on AOAC 2015.01 / ICP-MS</i>	24/07/2017	

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METALS/01/01/20-10-2016	2. Determination of Sorbic and Benzoic acid	<i>In house method O.608 / HPLC</i>	27/05/2011	
	3. Determination of Total Sugars and Sugars' Profile: fructose, galactose, glucose, sucrose, maltose, lactose	<i>In house method O.613</i>	16/03/2023	
5. Dried nuts, cereals and their products	Determination of Aflatoxins B1, B2, G1, G2	<i>In house method O.603 based on AOAC 991.31:2000</i>	20/06/2008	
6. High carbohydrate content food, Wine	Determination of Ochratoxin A	<i>In house method O.622</i>	29/05/2012	
7. Fish, wine	Determination of Histamine	<i>In house method O.611</i>	24/07/2017	
8. Cereals and their products	Determination of Propionic acid	<i>In house method O.600</i>	12/12/2014	
9. Cereals and their products, potato and its products	Determination of Acrylamide	<i>In house method O.637 based on method of QuEChERS (AOAC)</i>	24/07/2017	
10. Foods, Fats and Oils	Composition of Fatty Acids (saturated, unsaturated, monounsaturated, polysaturated, trans, $\Omega 3$ & $\Omega 6$ )	<i>In house method O.606 based on AOAC 996.06</i>	03/02/2022	
11. Bakery Products, Cereal Products, Cinnamon, Mahlab	Determination of Coumarin	<i>In house method O.614 / HPLC/UV-DAD</i>	16/03/2023	

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Tested Materials / Products	Types of test/ Properties measured	Applied methods/ Techniques used	DATE OF INTRODUCTION	DATE OF LAST MODIFICATION
12. Animal feeds	Determination of Metals (As, Ca, Cd, Cu, Fe, Hg, Mg, Mn, Na, P, Pb, Zn)	In house method O.521 based on AOAC 2015.01	16/03/2023	
13. Materials in contact with foodstuffs	1. Specific migration of metals into simulant 3% acetic: Al, As, Ba, Ca, Cd, Co, Cr, Cu, Eu, Fe, Gd, Hg, K, La, Li, Mg, Mn, Na, Ni, Pb, Sb, Tb, Zn	<i>In house method O.522 based on ISO 17294-1:2004 &amp; ISO 17294-2:2016 / ICP-MS</i>	03/02/2022	
	2. Specific migration of Bisphenol A into aqueous simulants (A, B,C) and simulant D <sub>1</sub> (50% ethanol), into simulant Ethanol 95% and simulant D <sub>2</sub> (vegetable oil)	<i>In house method O.634/ HPLC-FLD</i>	23/02/2017	
	3. Specific migration of 10 Phthalate Esters into simulant D <sub>2</sub> (vegetable oil): DMP: Dimethyl Phthalate DEP: Diethyl Phthalate DIBP: Diisobutyl Phthalate DBP: Dibutyl Phthalate BBP: Benzyl-butyl Phthalate DEHP: Bis (2-ethylhexyl) phthalate DCHP: Dicyclohexyl Phthalate DNOP: Di-n-octyl Phthalate DINP: Diisononyl Phthalate DIDP: Diisodecyl Phthalate	<i>In house method O.644 based on EN 13130-1:2004 &amp; Food Additives and Contaminants, 1999, Vol. 16, No. 5, 197-206</i>	24/07/2017	
	4. Specific migration of isophthalic and terephthalic acid into aqueous simulants (A, B, C) and simulant D <sub>1</sub> (50% ethanol) and simulant D <sub>2</sub> (vegetable oil)	<i>In house method O.650 based on EN 13130-2</i>	03/02/2022	

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1. Water for human consumption, surface water, groundwater, pool water, sea water	1. Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria	ISO 9308-1:2014	12/04/2002	
	2. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000	12/04/2002	
	3. Enumeration of culturable micro-organisms at 22±2 °C and at 36±2 °C	ISO 6222:1999	12/04/2002	
2. Water for human consumption, surface water, groundwater, pool water	1. Detection and enumeration of <i>Pseudomonas aeruginosa</i>	ISO 16266:2006	26/09/2005	
	2. Detection and enumeration of <i>Cl. perfringens</i> (including spores)	ISO 14189:2013	13/03/2001	
3. Water with a low concentration of interfering microorganisms (Matrix A)	Enumeration of Legionella	ISO 11731:2017 (Annex J, Procedure 1, Medium A-BCYE & B-BCYE+AB)  (Annex J, Procedures 5,7, 8,9,10, Medium A-BCYE & C – GVPC)	12/12/2014	
4. Water with a high concentration of interfering microorganisms (Matrix B)	Enumeration of Legionella	ISO 11731:2017 (Annex J, Procedures 8,9,10, Medium C – GVPC)	12/12/2014	
5. Water with extremely high concentration of interfering microorganisms (Matrix C)	Enumeration of Legionella	ISO 11731:2017 (Annex J, Procedures 4, 14, Medium C – GVPC)	12/12/2014	
6. Wastewater	1. Enumeration of Total coliforms	APHA 9222B <sup>1</sup>	03/02/2022	

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Tested Materials / Products	Types of test/ Properties measured	Applied methods/ Techniques used	DATE OF INTRODUCTION	DATE OF LAST MODIFICATION
	2. Enumeration of Fecal coliforms	<i>APHA 9222D<sup>1</sup></i>	03/02/2022	
	3. Enumeration of Total coliforms and E. Coli	<i>ISO 9308-1:2014</i>	03/02/2022	
7. Food and animal feeding stuffs	1. Enumeration of Total coliforms	<i>ISO 4832:2006</i>	13/03/2001	
	2. Detection and Enumeration of <i>Escherichia coli</i>	<i>ISO 7251:2005</i>	13/03/2001	
	3. Detection of <i>Listeria monocytogenes</i>	<i>ISO 11290-1:2017</i>	13/03/2001	
	4. Detection of <i>Salmonella</i> spp. (ex svs typhi, paratyphi)	<i>ISO 6579-1:2017</i>	13/03/2001	
	5. Enumeration of coagulase positive Staphylococcus	<i>ISO 6888-2:2021</i>	13/03/2001	
	6. Enumeration of microorganisms -- Colony-count technique at 30 <sup>0</sup> C	<i>ISO 4833-1:2013</i>	13/03/2001	
	7. Enumeration of <i>Bacillus cereus</i>	<i>ISO 7932:2004</i>	26/09/2005	
	8. Detection and Enumeration of <i>Clostridium perfringens</i>	<i>ISO 15213-2:2023</i>	26/09/2005	
	9. Enumeration of <i>Enterobacteriaceae</i>	<i>ISO 21528-2:2017</i>	26/09/2005	
	10. Enumeration of <i>Escherichia coli</i>	<i>ISO 16649-2:2001</i>	26/09/2005	
	11. Enumeration of <i>Listeria monocytogenes</i>	<i>ISO 11290-2:2017</i>	01/06/2007	
	12. Enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> (MPN technique)	<i>ISO 16649-3:2015</i>	29/05/2012	



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9. Food and animal feeding stuffs with $a_w > 0,95$	Enumeration of yeasts and moulds	ISO 21527-1:2008	12/12/2014	
10. Food and animal feeding stuffs with $a_w \leq 0,95$	Enumeration of yeasts and moulds	ISO 21527-2:2008	12/12/2014	
11. Animal faeces and environmental samples from the primary production stage	Detection of non-typhoidal -paratyphoid <i>Salmonella</i> spp.	ISO 6579-1:2017	27/05/2011	
12. Products intended for human consumption, animal feeding & environmental samples in the area of food and feed production	Enumeration of <i>Campylobacter</i> spp.	ISO 10272-2 :2017	12/12/2018	

**\* Methods marked with (\*) are in accordance with the method specification of Common Ministerial Decision Γ1 δΓΠ 67332/2017 and the Directive (EU) 2020/2184 concerning the quality of of water intended for human consumption.**

**\*\* Methods marked with (\*\*) are in accordance with the method specification of European Commission EC/333/2007 and its amendments (EU) 2021/705.**

1. American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 23<sup>rd</sup> Edition, 2017.

2. AOAC: Association of Analytical Communities

3. EPA: Environmental Protection Agency

**LAST UPDATE:**
**13/05/2025**