

RECONOCIMIENTO DE LA EQUIVALENCIA DEL CERTIFICADO DE ACREDITACION

San José, 26 de enero del 2024



Ref. No. ECA-RECA-5M020-2023
Sustituye al ECA-RECA-4M020-2023

A QUIEN CORRESPONDA:

La suscrita: **Graciela Delgado Ávila, Jefe del Departamento de Servicios de Equivalencia del Ente Costarricense de Acreditación**, por este medio hace constar que: En respuesta a la solicitud de reconocimiento de la equivalencia del certificado de acreditación número **RECA-2023-318**, del Organismo de Evaluación de la Conformidad **AGQ Costa Rica S.A.** con sede en **50 metros norte y 75 metros oeste de la Escuela República Dominicana, San Francisco de Dos Ríos, San José, 10106, Costa Rica**, presentada el 02 de marzo de 2023, basado en la norma **ISO/IEC 17025:2017 Requisitos generales para la competencia de los laboratorios de ensayo y calibración. Requisitos**, emitido por el Organismo de Acreditación **International Accreditation Service, Inc** vigente al día de hoy y sujeta a las decisiones del Organismo de Acreditación.

En los folios **04 al 14** se describe el alcance del laboratorio de ensayo **AGQ Costa Rica S.A.** cubiertas por el alcance de la norma **ISO/IEC 17025:2017 Requisitos generales para la competencia de los laboratorios de ensayo y calibración. Requisitos.**

ECA reconoce la equivalencia del certificado de acreditación **TL-1036** el cual fue otorgado de manera similar en cumplimiento a los estándares aceptados internacionalmente y adoptados por los Organismos de Acreditación firmantes del Acuerdo de Reconocimiento Multilateral.

Adicionalmente, ECA informa que el Organismo de Acreditación **International Accreditation Service, Inc** es signatario del Acuerdo de Reconocimiento Multilateral con **Cooperación Internacional de Acreditación de Laboratorios, ILAC**, en el alcance **ISO/IEC 17025:2017 Requisitos generales para la competencia de los laboratorios de ensayo y calibración. Requisitos.**

El reconocimiento de la equivalencia del certificado de acreditación se otorga por un periodo de **47 días** calendario. Desde el **26.01.2024** y hasta el **13.03.2024**, siendo que el ECA no puede dar fe de la validez o mantenimiento de los alcances reconocidos posterior a este plazo.

Se extiende la presente certificación a solicitud expresa de **AGQ Costa Rica SOCIEDAD ANONIMA**, el día veintiséis del año dos mil veinticuatro, para efectos ADMINISTRATIVOS, JUDICIALES o ambos, **con 14 folios que corresponden al certificado y alcance de acreditación. El presente reconocimiento de la equivalencia del certificado de acreditación tiene validez con su correspondiente alcance de la acreditación.**

Notas:

1. Una vez vencida la vigencia del plazo del reconocimiento de la equivalencia del certificado de acreditación, el ECA no garantiza que la acreditación del OEC emitida por un OA se mantenga vigente.
2. El interesado en solicitar el reconocimiento de la equivalencia del certificado de acreditación, debe mantener informado al ECA sobre los cambios en el estatus de la acreditación de origen.
3. Todo interesado se compromete a cumplir continuamente con los requisitos para el reconocimiento de la equivalencia del certificado de acreditación establecidos por el ECA, para las áreas en las cuales se busca el reconocimiento. Esto incluye adaptarse a los cambios que ECA publique con versiones posteriores.

4. El dueño del reconocimiento al participar en procesos de licitación, de contratación administrativa o de compras públicas debe informar claramente en su oferta de servicios qué actividades de evaluación de la conformidad tiene reconocidas por ECA y cuáles no, mediante el uso de algún mecanismo para realizar esta diferenciación.
5. Las proveedurías institucionales o dueños del cartel de licitación deben enviar a ECA los documentos presentados por los oferentes y que fueron emitidos por ECA para su verificación. La solicitud de revisión debe enviarse en un oficio formal al correo exoneracion@eca.or.cr



SERVICIOS DE EQUIVALENCIA

Licda. Graciela Delgado Ávila
Jefa del Departamento de Servicios de
Equivalencia
Ente Costarricense de Acreditación

cc: Archivo

ⁱNorma ISO/IEC 17021, ISO/IEC 17025, ISO/IEC 17065, ISO IEC 17020, ISO/IEC 15189

ⁱⁱIAAC, ILAC, IAF



CERTIFICATE OF ACCREDITATION

This is to attest that

AGQ COSTA RICA S.A.

50 MTS NORTE Y 75 MTS OESTE DE LA ESCUELA REPÚBLICA DOMINICANA
SAN FRANCISCO DE DOS RÍOS, SAN JOSÉ, 10106, REPUBLIC OF COSTA RICA

Testing Laboratory TL-1036

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 21, 2023



A handwritten signature in black ink, reading 'Rey Nathan'.

President

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AGQ COSTA RICA S.A.

www.agqlabs.cr

Contact Name Jeisson Cardenas Miranda

Contact Phone +506-22861168

Accredited to ISO/IEC 17025:2017

Effective Date August 21, 2023

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE		
FOOD-MICROBIOLOGY	Food, feed and surfaces	Escherichia coli	IT-345 Based on AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10		
		Total coliforms	IT-345 Based on AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10		
		Fecal coliforms	IT-345 Based on AFNOR 3M01/2-09/89C		
		Staphylococcus aureus	IT-343 Based on AOAC 2003.07, AOAC 2003.08, AOAC 2003.11		
		Aerobic plate count	IT-344 Based on AOAC 990.12		
		Yeast and molds	IT-342 Based on AOAC 997.02		
		Salmonella spp.	IT-392 Based on Vidas @ UP Salmonella SPT		
		Listeria spp. Listeria monocytogenes	IT-393 Based on Vidas @ UP Listeria LPT		
	Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup.	Mesophilic Total Count	IT-416 ICUMSA GS2/3-41		
		Yeast and Mold	IT-415 ICUMSA GS 2/3-47		
		Thermophilic Acidophilic Bacteria (TAB) & Guaiacol Producing TAB	IT-417 SM-PR-687		
		FOOD-INORGANIC	Food, feed	Ash	IT-328 Based on ISO 936, AOAC 942.05
		Moisture		IT-333 Based on AOAC 925.45	
Crude Protein	IT-335 Combustion method Based on AOAC 990.3, AOAC 992.15				
Total Fat	IT-332 Based on ISO 1443				
Total dietary	IT-330 Based on AOAC 993.21				
Total sugar	IT-327 Based on BOE- A - 1979-21118				

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
FOOD-INORGANIC (cont'd.)	Food, feed (cont'd.)	Carbohydrates (US & EU) – by calculation	IT-414 REGLAMENTO (EU) No1169/2011 UE, Food labeling guide FDA - Carbohydrates (US) and (EU)
		Energy (Calories and kilojoules) (US, EU and MX) - by calculation	IT-414 Based on REGLAMENTO (EU) No1169/2011 EU, Food labeling guide FDA
		Nutritional and heavy metals: Li, Be, B, Na, Mg, Al, Si, P, S, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Sr, Mo, Ag, Sn, Sb, Ba, Tl, As, Cd, Hg, Pb	IT-334 Metals by ICP-MS Based on AOAC Official Method 2015.01 Heavy Metals in Food, Codex Alimentarius CAC/GL 41, Codex Alimentarius Stan 193-1995
	Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup.	Chloride	IT-418 by ion chromatography
		Sensory analysis (Appearance, Odor, Odor after acidification, taste)	IT-419 SM-PR-420)
		Assay (Purity)	IT-420
		Quaternary Ammonium Compounds (QAC)	IT-427 SM-PR-470 by spectrophotometry
		Moisture by Loss on Drying	IT-426 ICUMSA GS 2-15 (2007)
		Day Acid Beverage Floc Test	IT-424 ICUMSA GS40 (2011)
		Insoluble Matter	IT-428 ICUMSA GS2-19 (2007)
		Reducing Sugars	IT-425 ICUMSA GS2-5(2011) by the Knight and Allen EDTA Method
		Colour	IT-423 ICUMSA GS 2-10 (2011)
		Turbidity	IT-430 ICUMSA GS 2-18 (2013)
		Conductivity Ash	IT-421 ICUMSA GS2-17 (2011)
Refractometric Dry Substance (RDS %)	IT-422 ICUMSA GS 4-13 (2009)		
Sulphite	IT-429 ICUMSA GS 2-33 (2011) by the Rosaniline Colorimetric Method		
ENVIRONMENTAL-INORGANIC	Ground waters, surface waters, drinking waters,	Metals: Al, Sb, As, Ba, B, Ca, Cd, Cr, Cu, Pb, Fe, Mg, Mn, Hg, Sn, Ni, Se, Ag, K, Na, Zn	IT-399 Metals by ICP-MS Based on SMEWW-APHA- AWWA-WEF 3125 B.; U.S.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL-INORGANIC (continued)	wastewaters, seawaters	By calculation: Calcium Hardness, Magnesium Hardness Total Hardness	EPA Method 6020B (SW-846) and 200.8.
	Soils, sediments, sludges and residues	Metals: Al, Sb, As, Ba, B, Ca, Cd, Cr, Cu, Pb, Fe, Mg, Mn, Hg, Sn, Ni, Se, Ag, K, Na, Zn.	IT-399 Metals by ICP-MS Based on SMEWW-APHA-AWWA-WEF 3125 B.; U.S. EPA Method 6020B (SW-846) and 200.8.
	Ground waters, surface waters, drinking waters, wastewaters, seawater	Total Suspended Solids	IT-371: SMEWW-APHA-AWWA-WEF 2540 D: Gravimetry
		Total Solids	IT-368: SMEWW-APHA-AWWA-WEF 2540 B: Gravimetry
		Total Dissolved Solids	IT-369: SMEWW-APHA-AWWA-WEF 2540 C Gravimetry
		Settleable Solids by	IT-370: SMEWW-APHA-AWWA-WEF 2540 F: Volumetry
		Turbidity	IT-376: SMEWW-APHA-AWWA-WEF 2130 B: Nephelometry
		Anionic surfactants as MBAS	IT-375: SMEWW-APHA-AWWA-WEF 5540 C: Spectrophotometry
		Sulfide	IT-440. Determination of Sulfide in Waters - Rev.1 - Feb.2023 / SM 4500 Sulfide. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023. 4500 Sulfide./ US EPA Methylene Blue Method. Ed11. Method 8131.HACH. 2018
		Apparent and true Color	IT-373. Determination of Color in Waters - Rev.3 - Feb.2023 - Visual Comparison Method / SM 2120 B. Color. Visual Comparison Method Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
Electric conductivity	IT-372. Determination of the Electrical Conductivity in Waters - Rev.3 - Feb.2023 / SM		

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL-INORGANIC (continued)	Ground waters, surface waters, drinking waters, wastewaters, seawater (continued)		2510 B. Conductivity. Laboratory Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
		Biochemical oxygen demand (BOD)	IT-366. Demand Biochemistry of Oxygen BOD5 in Waters - Rev.4 - Mar.2023 Based on: SM5210 B 5-day BOD Test. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
		Ammonia, Ammoniacal Nitrogen and Ammonium	IT-396. Determination of Ammonium, Ammonia and Ammoniacal Nitrogen in Waters - Rev.3 - Feb.2023 Based on: SM 4500 NH3 A. Nitrogen (Ammonia). Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023 / U.S. EPA. 1993. Method 350.1: Determination of Ammonia Nitrogen by Semi-Automated Colorimetry. Revision 2. Cincinnati, OH / U.S. EPA. 1974. Method 350.2: Nitrogen, Ammonia (Colorimetric, Titrimetric, Potentiometric Distillation Procedure) / HACH, 9th Edition, 2017. Method 8038: Nitrogen, Ammonia – Spectrophotometry
		Sulfates and Chlorides	IT-380. Determination of Anions in Water and Wastewater by Ion Chromatography - Rev.3 - Feb.2023 / SM 4110 B. Ion Chromatography with Chemical Suppression of Eluent Conductivity. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023 / EPA Method 300.0 Determination of inorganic anions by ion chromatography. Revision 2.1. 1993

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL-INORGANIC (continued)	Ground waters, surface waters, drinking waters, wastewaters, seawater (continued)	Chromium(VI), Cr(VI)	IT-441. Chrome Hexavalent in Waters - Rev.1 - Feb.2023 / SM 3500-Cr B. Chromium. Colorimetric Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023. / 1,5-difenilcarbohídrazida , Spectrophotometry. HACH, 10th Edition, 2019. Method 8023: US EPA 1,5-diphenylcarbohídrazida - Spectrophotometry
		Total and partial Alkalinity, hydroxide alkalinity. Carbonates and Bicarbonates	IT-413. Total, Partial and Alkalinity Hydroxide by Volumetry in Waters - Rev.2 - Feb.2023 / SM 2320 B. Alkalinity. Titration Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
		Phenols	IT-431. Determination of Phenols and Cresols in Waters by Spectrophotometry - Rev.2 - Feb.2023 Based on: SM 5530 A, B and D. Phenols. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023 / Environmental Protection Agency (EPA), Method 420.1: Phenolics (Spectrophotometric, Manual 4-AAP With Distillation), 1978.
		Salinity	IT-438. Determination of Salinity in Waters - Rev.1 - Feb.2023 / SM 2520 B. Salinity. Electrical Conductivity Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
		Transmittance 254	IT-439. Organic Constituents That UV Absorb - Transmittance 254 - Rev.1 - Feb.2023/ SM 5910 B. UV-Absorbing Organic

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ENVIRONMENTAL-INORGANIC (continued)	Ground waters, surface waters, drinking waters, wastewaters, seawater (continued)		Constituents. Ultraviolet Absorption Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
		UV 254	IT-439. Organic Constituents That UV Absorb - UV 254 - Rev.1 - Feb.2023 / SM 5910 B. UV-Absorbing Organic Constituents. Ultraviolet Absorption Method. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
	Ground waters, surface waters, wastewaters, seawater	Total COD & Dissolved COD	IT-367: SMEWW-APHA-AWWA-WEF 5220 D: Closed reflux, colorimetry
		Oils & Grease	IT-374: SMEWW-APHA-AWWA-WEF 5520 B: Liquid-Liquid partition-Gravimetry
Wastewaters	Spectrophotometric color (Purity)	IT-373 Determination of Color in Waters Rev.5. 17-Jul-2023 / Standard Methods for Examination of Water and Wastewater 24th Edition 2023. 2120 D.	
Ground waters, surface waters, drinking waters, wastewaters, seawater, soils, sediments, sludges	Total Petroleum Hydrocarbons (TPH): <ul style="list-style-type: none"> - Gasoline Range Organics (GRO) >C5-C10 - Diesel Range Organics (DRO) >C10-C28 - Oil Range Organics (ORO) >C28-C40 - Sum of fractions Gasoline Range Organics (GRO) >C5-C10, Diesel Range Organics (DRO) >C10-C28 and Oil Range Organics (ORO) >C28-C40; and any possible subfractions between >C5-C40 including kerosene organic range, jet fuel organic range and bunker 	IT-381 Determination of Total Petroleum Hydrocarbons (HTP) in water, soil and sediment by gas chromatography Rev.3. 17-Jul-2023. Modified from: U.S. EPA. 2007. "Method 8015C (SW-846): Nonhalogenated Organics by gas chromatography" Revision 3. Washington, DC. Gravimetric / GC-FID / GC-MS	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		organic range Emulfiable Hydrocarbons Non-emulfiable Hydrocarbons Emulfiable and Non-emulfiable Total Petroleum Hydrocarbons	
ENVIRONMENTAL-INORGANIC Field sampling and Monitoring	Ground waters, surface waters, drinking waters, wastewaters, seawater	Sampling (Grab and composite):	PICR-211: SMEWW-APHA-AWWA-WEF 1060 A, B y C: Collection and Preservation of Samples
		pH	IT-378: SMEWW-APHA-AWWA-WEF 4500 H+ B: Electrometry
		Temperature	IT-377: SMEWW-APHA-AWWA-WEF 2550
ENVIRONMENTAL-MICROBIOLOGY	Recreational waters, ground waters, surface waters, drinking waters	Fecal Coliforms, Total Coliforms, Escherichia coli	IT-340: SMEWW-APHA-AWWA-WEF 9222, Membrane Filter Technique for Members of the Coliform Group K; ISO 9308-1:2014 Water quality — Enumeration of Escherichia coli and coliform bacteria — Part 1: Membrane filtration method for waters with low bacterial background flora
	Ground waters, surface waters, drinking waters, wastewaters, seawater	Total heterotroph count	IT-338. Bacteria Plate Count Heterotrophic - Rev.1 - Feb.2023/SM 9215 B. Heterotrophic Plate Count. Pour Plate Procedure. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023.
	Ground waters, surface waters, drinking waters, recreational waters	Pseudomonas	IT-339. Pseudomonas Aeruginosa by Membrane Filtration - Rev.1 - Feb.2023 Based on: SM 9213 E. Recreational Waters. Membrane filter technique for Pseudomonas aeruginosa. Standard Methods for Examination of Water and

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Wastewater, 24th Edition, 2023.
ENVIRONMENTAL-SAMPLING	Soil, Sediment, Sludge (Biosolids)	Chemistry and Microbiology parameters	PICR-211: U.S. EPA. Soil Sampling. Laboratory Services and Applied Science Division. Athens, Georgia, 2020 U.S. EPA. Sediment Sampling. Laboratory Services and Applied Science Division. Athens, Georgia, 2020. U.S. Environmental Protection Agency. POTW Sludge Sampling and Analysis Guidance Document EPA 833-B-89-100, 1989
FOOD-SAMPLING	Food, Feed, Surfaces	Microbiology parameters	PICR-212: ISO 18593:2018, BAM Cap1, CODEX-ALIMENTARIUS (CAC/GL 21-1997, CAC/GL50-2004)
ENVIRONMENTAL-ORGANIC	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges	Volatile organic compounds (VOCs) 1,1-dichloropropylene 1,2,3-trichlorobenzene 1,2,3-trichloropropane 1,2,4-trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-dibromoethane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3,5-trimethylbenzene 1,3-dichlorobenzene 1,3-dichloropropane 1,4-dichlorobenzene 2,2-dichloropropane 2-chlorotoluene 4-chlorotoluene 4-isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Carbon Tetrachloride Chlorobenzene Chloroform	IT-383. Determination of Compounds Volatile Organics (VOC's) in Water and Soils, sediments and sludges - Rev.3. Jul-2023 /EPA Method 8260D. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). 2018.

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ENVIRONMENTAL-ORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges (cont'd.)	Cis-1,2-dichloroethylene Dibromochloromethane Dibromomethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl T-butyl Ether M-xylene Naphthalene N-butylbenzene N-propylbenzene O-xylene P-xylene Sec-butylbenzene Styrene Tert-butylbenzene Tetrachloroethylene Toluene Trans-1,2-dichloroethylene Trichloroethylene Ethanol	IT-383. Determination of Compounds Volatile Organics (VOC's) in Water and Soils sediments and sludges - Rev.3. Jul-2023 /EPA Method 8260D. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). 2018. (cont'd.)
		Polycyclic aromatic hydrocarbons (PAHs) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benz[a]pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	IT-382. Determination of Hydrocarbons Polycyclic Aromatics (PAHs) in Water, Soil, Sediment and Waste by Gas Chromatography - Rev.1 - Feb.2023 / SM 6440 Polynuclear Aromatic Hydrocarbons. Standard Methods for Examination of Water and Wastewater, 24th Edition, 2023 / Method 8270E (SW-846): Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS). 2014
		Pesticides residues (PRs)	IT-447. Determination of Residues of Pesticides in Water, Soil and Sediments by Chromatography of Gases - Rev.1 - Feb.2023/ Method 8270E (SW-846): Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS). 2014

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ENVIRONMENTAL-ORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges and residues	Polychlorinated biphenyls (PCBs) (PCB-180) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-138) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-153) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-101) 2,2',4,5,5'-Pentachlorobiphenyl (PCB-52) 2,2',5,5'-Tetrachlorobiphenyl (PCB-118) 2,3',4,4',5-Pentachlorobiphenyl (PCB-28) 2,4,4'-Trichlorobiphenyl	IT-446. Determination of Biphenyls Polychlorinated (PCBs) in Water, Soils, Sediments and Residues by Gas Chromatography - Rev.1 - Feb.2023 / SW-846 Test Method 8082A: Polychlorinated Biphenyls (PCBs) by Gas Chromatography. 2007