CERTIFICATE OF ACCREDITATION

This is to attest that

AGQ CHILE S.A.

LOS INDUSTRIALES 697, HUECHURABA,
SANTIAGO DE CHILE, 8590829, REPUBLIC OF CHILE

Testing Laboratory TL-513

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.

Expiry Date May 1, 2023
Effective Date June 21, 2021

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

AGQ CHILE S.A.

www.agqlabs.cl

Contact Name Monica Doebbel **Contact Phone** +56-2-27544000

Accredited to ISO/IEC 17025:2017 *Effective Date June 21, 2021*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic	Dry foods, Oilseeds and Cereals	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Zearalenone, Ochratoxine A	**PC-226 (Rev. 7)** Determination of mycotoxins by LC/MS-MS
	Fish with high and low-fat content; Crustaceans	3-Amino-2-oxazolidinone (AOZ), 1-Aminohydantoin hydrochloride (AHD), 3-Amino-5-morpholinomethyl-2-oxazold (AMOZ), Semicarbazide hydrochloride (SEM)	**PC-227 (Rev. 9)** Determination of nitrofuran metabolites residues by LC-MS / MS
		Flumequine, Oxolinic acid, Emamectin benzoate, Florfenicol, Diflubenzuron, Azametifos, Teflubenzuron, Hexaflumuron, Lufenuron	**PC-228 (Rev. 19)** Determination of Antibiotic Residues in Hydrobiological Products by LC-MS / MS Chromatography
		Oxytetracycline, Tetracycline, Chlortetracycline, 4-epi-Oxytetracycline, 4-epi-Tetracycline, 4-epi-Chlortetracycline	**PC-339 (Rev. 13)** Residues of Tetracyclines and Penicillin in Hydrobiological Products by LC-MS/MS
	Wine	Ochratoxin A	**PC-299 (Rev. 4)** Determination of Ochratoxin A residues by LC/MS-MS
		Natamycin	**PC-300 (Rev. 4)** Determination of Natamycin residues LC-MS/MS
		Histamine	**PC-301 (Rev. 5)** Determination of Histamine residues by LC/MS-MS
		Methanol	**PC-358 (Rev. 4)**

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)			Determination of methanol by GC-FID
	Meal from animal origin and Feedstuffs	Abamectin, Oxolinic Acid, Ciprofloxacin, Chloramphenicol, Diflubenzuron, Emamectin Benzoate, Enrofloxacin, Erythromycin A, Spiramycin, Florfenicol, Flumequine, Ivermectin, Sarafloxacin, Trimethoprim, Teflubenzuron, Tylosin, Lufenuron, Hexaflumuron, Amoxicillin, Chlortetracycline, Oxytetracycline, Tetracycline, Penicillin G and Doxycycline	**PC-305 (Rev. 9)** Determination of antibiotic and tetracycline residues by LC-MS-MS
		1-Aminohydantoin (AHD), 3-Amino-5-morpholinomethyl-2-oxazolidinone (AMOZ), 3-Amino-2-oxazolidinone (AOZ), Semicarbazide (SEM)	**PC-319 (Rev. 6)** Determination of nitrofurans metabolites residues by LC/MS-MS
		Crystal Violet, Leuco Crystal Violet, Malachite Green, Leuco Green Malachite, Bright Green	**PC-266 (Rev. 17)** Determination of colorants in meal by LC/MS-MS
	Meal from animal origin, Feedstuffs, Fish (with high and low-fat content) and Crustaceans	Sulfamethazine (Sulfadimidine), Sulfadimethoxine, Sulfaquinoxaline, Sulfamethoxazole, Sulfamethoxipyridazine, Sulfadoxine, Sulfadiazine, Sulfathiazole, Sulfamerazine, Sulfachloropyridazine	**PC-341 (Rev. 7)** Determination of sulfonamides residues by LC/MS-MS
		Decoquinate, Diclazuril, Halofuginone, Robenidine, Narasin, Nicarbazine, Lasalocid A, Maduramicin, Monensin, Salinomycin	**PE-659 (Rev. 3)** Determination of Coccidiostats by LC/MS-MS
	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and	Dithiocarbamates	**PC-368 (Rev.7)** Determination of Dithiocarbamates by GC-MS/MS.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Wine; Natural juices with no added sugar	Dithiocarbamates (cont'd.)	
	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar	2,4-D, Azoxystrobin, Diphenylamine, Fenhexamide, Fludioxonil, Iprodione, Imazalil, Pyrimethanil, Prochloraz, Tebuconazole, Thiabendazole	**PE-664 (Rev. 4)** Determination of residues of post-harvest pesticides by chromatography LC/MS-MS
		2,4,6-Tricloroanisol, 2,4,6-Triclorofenol, 2,4-D, 2-Fenilfenol, Abamectina, Acefato, Acequinocyl, Acetocloro, Acetamiprid, Acibenzolar- S-metilo, Aclonifen, Acrinatrina, Alacloro, Aldicarb (Suma), Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Aldrín, Alfa-HCH, Ametoctradin, Ametrina, Aminocarb, Antraquinona, Atrazina, Atrazina Desetil, Atrazina Desisopropil, Azaconazol, Azadiractina, Azametifos, Azimsulfurón, Azinfos Etil, Azinfos Metil, Azoxistrobina, BAC (Suma), BAC n-c08, BAC n-c10, BAC n-c12, BAC n-c14, BAC n-c16, BAC n-c18, Beflubutamida, Benalaxil, Bendiocarb, Benfluralina, Benomilo-Carbendazima, Bentazona, Bentazona Metil, Bentiavalicarb Isopropil, Beta-HCH, Bifenazato, Bifenilo, Bifenox, Bifentrina, Bioaletrina, Bitertanol, Bixafen, Boscalida, Bromacilo, Bromociclen, Bromofos Etil, Bromofos Metil, Bromopropilato, Bromoxinil, Bromuconazol, Bupirimato, Buprofezin, Butacloro, Butoxicarboxim, Butoxicarboxim Sulfoxide, Butralina, Buturon, Cadusafos, Captafol, Captan (Suma), Captan, Carbaril,	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar (cont'd.)	Carbetamida, Carbofenotion, Carbofuran, Carbofuran-3-Hidroxi, Carboxim, Carfentrazona Etil, Cianazina, Ciazofamida, Ciclanilida, Cicloato, Cicloxidim, Cienopirafen, Ciflufenamida, Ciflumetofeno, Ciflutrin, Cihalofop Butil, Cihexatina+Azociclotin, Cimoxanilo, Cinidon Etil, Cipermetrina, Ciproconazol, Ciprodinil, Ciromazina, Cletodim, Cletodim Sulfona, Cletodim Sulfoxido, Clofentezina, Clomazona, Clorantraniliprole, Clorbenzilato + Clorpropilato, Clorbromuron, Clordano (Suma), Clordano Cis, Clordano Trans, Clorfenapir, Clorfenson, Clorfenvinfós, Clorfluazuron, Cloridazon (Suma), Cloridazon, Cloridazon Desfenil, Clormefos, Clorotalonil, Clorotion, Clorpirifos, Clorpirifos Metil, Clorprofam, Clorsulfuron, Clortal Dimetil, Clortiofos, Clortoluron, Clorxuron, Clotianidin, Clozolinato, Coumafos, Crimidina, Cyantraniliprole, Cyhalotrin-L, DDAC (Suma), DDAC n-c08, DDAC n-c10, DDAC n-c12, DDAC n-c14, DDD-pp + DDT-op, DEET, Delta-HCH, Deltametrina, Demeton S, Demeton-S Sulfóxido, Demeton-S-Metil, Demeton-S-Metil Sulfona, Desmedifam, Desmetrina, Diafenturion, Dialifos, Diazinón, Diclobenilo, Diclobutrazol, Diclofention, Diclofluanida, Diclofop, Diclofop Metil, Diclofop Metil (Suma), Diclorán, Diclormid, Diclorprop, Diclorvos, Dicofol (Suma), Dicofol o,p, Dicofol p,p´, Dicrotofos, Dieldrin (Suma), Dieldrin, Dietofencarb, Difenilamina, Difenoconazol, Diflubenzuron, Diflufenicán, Dimefox, Dimefuron, Dimetacloro, Dimetenamida-P, Dimetoato, Dimetomorf, Dimoxistrobin, Diniconazol, Dinobuton, Dinotefuram, Disulfuton (Suma), Disulfuton, Disulfuton	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar (cont'd.)	Sulfona, Disulfuton Sulfoxido, Ditalimfos, Diuron, DMST, DNOC, Dodemorf, Dodina, Edifenphos, Emamectina, Endosulfan (Suma), Endosulfan Alfa, Endosulfan Beta, Endosulfan Sulfato, Endrin, EPN, Epoxiconazol, Epsilon-HCH, EPTC, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (Suma), Espirotetramat, Espirotetramat-Cis-Enol, Espirotetramat-Cis-Ketohidroxi, Espirotetramat-Enol-Glucoside, Espirotetramat-Mono-Hidroxy, Espiroxamina, Etaboxam, Etalfluralin, Ethirimol, Etiofencarb, Etiofencarb Sulfona, Etiofencarb Sulfóxido, Etion, Etiprol, Etofenprox, Etofumesato (Suma), Etofumesato , Etofumesato 2-ceto, Etoprofos, Etoxazol, Etoxiquina, Etridiazole, Etrimfos, Famoxadona, Fenamidona, Fenamifos (Suma), Fenamifos, Fenamifos Sulfona, Fenamifos Sulfóxido, Fenarimol, Fenazaquina, Fenbuconazol, Fenbutatín Óxido, Fenclorfos (Suma), Fenclorfos, Fenclorfos Oxon, Fenhexamida, Fenitrotión, Fenmedifan, Fenobucarb, Fenoxicarb, Fenpiclonil, Fenpirazamina, Fenpiroximato, Fenpropatrin, Fenpropidin, Fenpropimorfo, Fenson, Fensulfotion, Fensulfotion Oxon, Fensulfotion Oxon Sulfona, Fensulfotion Sulfona, Fentina , Fention (Suma), Fention, Fention Oxon, Fention Oxon Sulfona, Fention Oxon Sulfoxido, Fention Sulfona, Fention Sulfóxido, Fentoato, Fenuron, Fenvalerato + Esfenvalerato, Fipronil (Suma), Fipronil, Fipronil Sulfide, Fipronil Sulfona, Flamprop, Flazasulfuron, Flonicamid (Suma), Flonicamid, Florasulam, Fluacinam, Fluazifop-Metil, Fluazifop-P, Fluazifop-P-butil, Flubendiamida, Flucitrinato, Fludioxonilo, Flufenacet (Suma),	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar (cont'd.)	Flufenacet, Flufenacet ESA, Flufenacet OA, Flufenoxuron, Flumetralina, Flumioxazina, Fluometuron, Fluopicolide, Fluopiram, Fluotrimazol, Fluoxastrobin, Flupiradifuron, Fluquinconazol, Fluroxipir, Fluroxipir Meptil, Flurtamona, Flusilazol, Flutolanil, Flutriafol, Fluvalinato Tau, Fluxapiroxad, Folpet (Suma), Folpet, Fonofos, Foramsulfuron, Forato (Suma), Forato, Forato Oxon, Forato Oxon Sulfona, Forato Oxon Sulfoxido, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Formetanato, Formotion, Fosalón, Fosfamidon, Fosmet (Suma), Fosmet, Fosmet Oxon, Fostiazato, Foxim, Ftalamida (Folpet), Fuberidazol, Furalaxil, Halosulfuron Metil, Haloxifop-2-Ethoxyetil, Haloxifop-Metil, Haloxyfop-R, Heptacloro (Suma), Heptacloro, Heptacloro Epóxido A, Heptacloro Epóxido B, Heptenofos, Hexacloro-1,3-butadieno, Hexaclorobenceno, Hexaconazol, Hexaflumuron, Hexazinona, Hexitiazox, Hidroxiquinoleina-8, Imazalil, Imidacloprid, Indaziflam, Indoxacarb, Iodofenfos, Iodosulfuron Metil, Ioxinil, Iprobenfos, Iprodiona, Iprovalicarb, Isazofos, Isocarbofos, Isofenfos, Isofenfos Metil, Isopyrazam, Isoprocarb, Isoprotiolano, Isoproturón, Isoxabén, Isoxation, Ivermectina, Kresoxim Metil, Lenacilo, Lindano, Linurón, Lufenuron, Malaoxon, Malation (Suma), Malation, Mandipropamid, Matrina, MCPA, Mecarbam, Mefenpir Dietil, Mepanipirim, Mepronilo, Meptildinocap, Mesosulfuron Metil, Metabenztiazuron, Metacrifós, Metaflumizona, Metalaxil, Metamidofos, Metamitrona, Metazacloro, Metconazol, Metidatión, Metil Tiofanato, Metiocarb (Suma), Metiocarb,	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar (cont'd.)	Metiocarb Sulfona, Metiocarb Sulfóxido, Metobromuron, Metolacloro, Metolcarb, Metomilo, Metoprotrina, Metoxicloro, Metoxifenoxida, Metoxuron, Metrafenona, Metribuzina, Metsulfuron Metil, Mevinfos, Miclobutanil, Milbemectina (Suma), Milbemicina A3, Milbemicina A4 , Mirex, Molinato, Monocrotofós, Monolinurón, Monuron, Napropamida, Neburon, Nicosulfuron, Nitenpiram, Nitrofen, Nitrotal Isopropil, Norflurazon, Novalurón, Nuarimol, o,p-DDD, o,p-DDE, Ofurace, Ometoato, Orizalin, Oxadiargilo, Oxadiazón, Oxadixilo, Oxamilo, Oxasulfuron, Oxatiapiprolin, Oxicarboxina, Oxiclordano, Oxidemetón-metilo (Suma), Oxidemetón-metilo, Oxifluorfén, Oximatrina, p,p-DDE, p,p-DDT, Paclobutrazol, Paraoxon Etil, Paraoxon Metil, Parathion Etil, Parathion Metil, Parathion Metil (Suma), Pencicurón, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Pentaclorobenzonitrilo, Pentiopirad, Permetrina, Picolinafen, Picoxistrobina, Pidyflumetofen, Pimetrocina, Pinoxaden, Piperonil Butoxido, Piracarbolid, Piraclostrobina, Piraflufeno, Piraflufeno-etilo, Piraflufeno-etilo (Suma), Pirazofos, Piridabén, Piridafention, Piridalil, Piridato, Pirifenox, Pirimetanil, Pirimicarb, Pirimicarb Desmetil, Pirimicarb Desmetil Formamida, Pirimifos Etil, Pirimifos Metil, Piriproxifén, Procimidona, Procloraz (Suma), Procloraz, Profam, Profenofós, Profluralin, Promecarb, Prometrina, Propaclor, Propaclor Ac Oxalamico, Propamocarb, Propanil, Propaquizafop, Propargita, Propazina, Propetamphos, Propiconazol, Propizamida,	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits);Oils; Wine; Natural juices with no added sugar (cont'd.)	Propoxur, Proquinazid, Prosulfocarb, Prosulfuron, Protioconazol, Protiofos, Quinalfós, Quinclorac, Quinometionato, Quinoxifen, Quintoceno (Suma), Quintoceno, Quizalofop-Ethyl, Rimsulfuron, Rotenona, Saflufenacil, Sebutilazina, Setoxidim (Suma), Setoxidim, Siltiofam, Simazina, Sulcotriona, Sulfosulfuron, Sulfotep, Sulfoxaflor, Sulprofos, Tebuconazol, Tebufenocida, Tebufenpirad, Tecnaceno, Teflubenzurón, Teflutrina, Tepraloxidim, Terbacil, Terbufos, Terbufos Sulfona, Terbufos Sulfóxido, Terbumeton, Terbutilazina, Terbutilazina Desetil, Terbutrin, Tetraclorvinfos, Tetraconazol, Tetradifón, Tetrahidroftalamida (Captan), Tetrametrina, Tetrasul, TFNA, TFNG, Thiametoxam, Tiabendazol, Tiacloprid, Tidiazuron, Tifensulfuron Metil, Tiobencarb, Tiociclam, Tiodicarb, Tiofanox, Tiofanox Sulfona, Tiofanox Sulfoxido, Tiometon, Tolclofos Metil, Tolfenpirad, Tolilfluanida (Suma), Tolilfluanida, Transflutrin, Triadimefon, Triadimenol, Trialato, Triamifos, Triasulfuron, Triazofos, Triazoxida, Triciclazol, Triclopir, Triclorfon, Tricresil Fosfato, Tridemorfo, Trifloxystrobin, Triflumizol (Suma), Triflumizol, Triflumizol FM 6-1, Triflumurón,Trifluralina, Triforina, Triticonazol, Uniconazol, Vamidotion, Vinclozolina, Zoxamida	**PE-674 (Rev. 18)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)
		Perchlorate, Chlorate, Etephon, Fosetyl-Al (Sum of Fosetyl, Phosphonic Acid and their salts, expressed as Fosetyl), Phosphonic Acid	**PE-690 (Rev. 7)** Determination of Polar Pesticides by LC/MS-MS
Food – Inorganic	Wine and Food	Arsenic, Calcium, Manganese, Cadmium, Copper, Chromium, Iron, Magnesium	**PC-230 (Rev. 13)** Determination of Heavy Metals using ICP

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Inorganic (cont'd.)	Wine and Food (cont'd.)	Lithium, Beryllium, Boron, Aluminium, Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Arsenic, Selenium, Strontium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Mercury, Lead	**PE-324 (Rev. 29)** Determination of total elements in food by ICP-MS
	Salmon Muscle (Skin and Muscle) and Molluscs	Arsenic, Cadmium, Copper, Chrome, Tin, Lead, Mercury, Zinc, Lithium, Beryllium, Aluminum, Titanium, Manganese, Nickel, Molybdenum, Silver Antimony, Barium, Vanadium, Iron, Selenium	**PC-360 (Rev. 5)** Preparation and determination of heavy metals in Hydrobiological matrix
	Fish and Molluscs	Sampling of hydrobiological products	**PICH-222 (Rev. 3)** Sampling of Hydrobiological products. Based on: NCh43:1961, Selection of samples at random. Manual of Safety and Certification
	Fish	Fractionation of fish in situ	**PICH-223 (Rev. 3)** Fractionation of fish in terrain. Based on: NCh43:1961, Selection of samples at random. Manual of Safety and Certification
	Salmon	Sampling of Salmonids	**PICH-224 (Rev. 4)** Sampling of Salmonids. Based on: NCh43:1961, Selection of samples at random. Manual of Safety and Certifications
	Hydrobiological Products and Marine Biota	Arsenic (As^{+3}, As^{+5}, Monomethyl Arsenate, Dimethyl Arsenic)	**PC-372 (Rev. 5)** Chemical speciation of arsenic by HPLC-ICP-MS (anion exchange)
		Mercury (MeHg and Hg (II))	**PC-373 (Rev. 3)** Chemical speciation of Mercury by HPLC-ICP-MS (Reverse phase C18)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology	Food for human consumption	Detection of Listeria Monocytogenes; Detection of Listeria sp.	**ISO 11290-1:2017** Microbiology of the food chain -- Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp.-- Part 1: Detection method
		Salmonella detection	**NCh2675:2002** Hydrobiological Products - Salmonella Detection
		Determination of total coliforms; Determination of fecal coliforms	**NCh2635/1:2001** Hydrobiological Products - Determination of Coliforms - Part 1: Determination of Coliforms and Fecal Coliforms - Most Probable Number Technique (MPN)
		Determination of aerobic mesophylls	**NCh2659:2002** Hydrobiological products - Determination of mesophilic aerobic microorganisms - Plate count technique at 35 ° C
		Determination of total coliforms	**NCh2635/2:2001** Hydrobiological Products - Determination of Coliforms - Part 2: Plate Count Technique
		Determination of Escherichia coli	**NCh2636:2001** Hydrobiological products - Determination of Escherichia coli - Most probable number technique (MPN)
		Determination of Enterobacteriaceae	**NCh2676:2002** Hydrobiological

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology (cont'd.)	Food for human consumption (cont'd.)		products - Determination of Enterobacteriaceae without resuscitation - NMP technique and plate count technique
		Determination of Escherichia coli	**ISO 16649-2:2001** Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli-- Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
		Determination of Mould; Yeast determination	**NCh2734:2002** Hydrobiological products - Determination of mould and yeasts - Plate count technique
		Determination of Staphylococcus aureus	**NCh2671:2002** Hydrobiological Products - Coagulase positive Staphylococcus aureus count - Baird-Parker agar plate count technique
		Determines with presumptive Bacillus cereus	**NCh3116:2008** Microbiology of food for human and animal consumption - Horizontal method for the presumptive enumeration of Bacillus cereus - Plate count technique at 30ºC
	Surfaces, utensils and manipulators	Detection of Listeria Monocytogenes; Detection of Listeria sp	**PC-303 (Rev.4)** Listeria Detection on Surfaces

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology (cont'd.)	Surfaces, utensils and manipulators (cont'd.)	Detection of total coliforms, fecal coliforms and Escherichia coli	**PC-209 (Rev.7)** Investigation of Coliforms, Fecal Coliforms and E Coli on Surfaces and Handlers
		Detection of total coliforms and E.coli	**PC-211 (Rev.7)** Coliform and E Coli Count on Surfaces
		Detection of Salmonella spp	**PC-267 (Rev.4)** Salmonella Detection in Handlers and Surface
		Staphylococcus aureus detection	**PC-206 (Rev.8)** Determination of Staphylococcus Aureus on Surfaces and Handlers
		Determination of aerobic mesophylls	**PC-210 (Rev.9)** Determination of Aerobic Mesophilic Microorganisms on Surfaces and Manipulators
		Determination of Enterobacteriaceae	**PC 268 (Rev.2)** Enterobacteriaceae on Surfaces and Manipulators
		Determination of Mould; Determination of Yeast	**PC 252 (Rev.2)** Mould and Yeasts on Surfaces and Handlers
	Environment (Atmosphere)	Determination of aerobic mesophylls; Determination of Mould (Mould); Determination of yeasts (yeast)	**SM dairy products 17°Ed, chapter 13 13.023**
Vegetation material – Inorganic	Leaves	Chloride, Nitrate, Ammonium, Alkalinity	**PE-336 (Rev. 20)** Ammonium, Ammonia nitrogen, Chloride, TON, Alkalinity and Urea using the automatic method of UV-Visible spectrophotometry
		Boron, Calcium, Copper, Phosphorus, Iron, Magnesium,	**PEC-009 (Rev. 27)** Determination of Ca, Mg, Na, K, Fe, Mn,

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Vegetation material – Inorganic (cont'd.)	Leaves (cont'd.)	Manganese, Molybdenum, Potassium, Sodium, Zinc, Sulfur	Cu, Zn, Mo, S, P and B by ICP-OES
		Nitrogen	**PEC-034 (Rev. 22)** Determination of nitrogen
Food - Safety	Reusable feeding nipples and drinking accessories; Reusable baby bottles and drinking glasses; Single-use feeding bottles, feeding nipples, feeding bags, drinking accessories, which do not contain fluid when purchased, and reusable food grade pots.	Determination of BPA	**PC-1041 (Rev.4)** BPA by LC / MS-MS Chromatography
	Materials and articles in contact with food products	Global migration	**UNE-EN-1186-1- Part 1 & 3** Materials and articles in contact with foodstuffs. Plastics
Safety	Toys and School supplies	Total Lead	**ASTM D3335-85A** Low Concentrations of Lead in Paint
		Phthalates: Di(2-etilhexil) ftalato (DEHP), Dibutilftalato (DBP), Butilbencilftalato (BBP), Diisononilftalato (DINP), Diisodecilftalato (DIDP), Di-n-octilftalato (DNOP)	**EN 14372:2004** Child use and care articles
		Ignitability Test	**NCh 3251/2:2020** Determination of ignitability
		Toluene	**PC-331 (Rev. 6)** Determination of toluene
		Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Antimony, Selenium	**PC-332 (Rev. 7)** Metals in toys and school supplies by ICP-OES/MS
		N-nitrosodibenzylamine, N-nitrosodibutylamine, N-nitrosodiethanolamine, N-nitrosodiethylamine,	**PC-355 (Rev. 2)** Nitrosamines in PVC by LC-MS/MS based on EN 71-12:2013 N-

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Safety (cont'd.)	Toys and School supplies (cont'd.)	N-nitrosodiisobutylamine, N-nitrosodiisononylamine, N- nitrosodiisopropylamine, N-nitrosodimethylamine, N-nitrosodipropylamine, N-nitrosomorpholine, N-nitrosopiperidine	Nitrosamines and N-Nitrosatable Substances
	Toys	Mechanical and physical properties	**EN 71-1** Safety of toys - Part 1: Mechanical and physical properties
		Flammability	**EN 71-2** Safety of toys - Part 2: Flammability
		Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin, Zinc	**EN 71-3** Migration of certain elements
	Objects destined to come into contact with food in final product and in migration	Styrene, Acrylonitrile, Vinyl Chloride	**PC-1039 (Rev. 1)** Free Monomers in Materials and plastic objects destined to come into contact with food in final product and in migration
	Materials and Articles in Contact with Food in Materials and articles in contact with food (plastics, metals, cellulose)	Antimonio, Arsénico, Bario, Boro, Cobalto, Cobre, Estaño, Flúor, Hierro, Litio, Manganeso, Plata, Plomo, Zinc	**PC-1040 (Rev.2)** Determination of Metals in Materials and Articles in Contact with Food in Materials and articles in contact with food (plastics, metals, cellulose)
	Reusable poly bags	Mechanical and physical properties	**UNE 53942** Plastics. Reusable plastics bags of polyethylene (PE) for the transport of products distributed by retail. Technical and environmental requirements and test methods
Environmental, Geochem,	Minerals and Soil	Oxidation pH	**PE-991 (Rev. 2)** Determination of oxidation pH

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Mineral and Soil – Inorganic	Minerals and Soil (cont'd.)	Sample preparation	**PE-4017 (Rev. 9)** Preparation of mineral sample
		Neutralization Potential (NP)	**PE-4402 (Rev. 2)** Determination of neutralization potential (NP)
		Neutralization Potential Modification LAWRENCE &WANG	**PE-4403 (Rev. 3)** Neutralization potential modification LAWRENCE &WANG
		Fizz Rating Test	**PE-4409 (Rev. 1)** Fizz Rating
		Net Acid Generation (NAG)	**PE-4413 (Rev. 5)** Net acid generation (NAG)
		Paste pH	**PE 4416 (Rev. 4)** Paste pH
		Oxidation – Reduction Potential (ORP)	**SMEWW 2580-A 23rd edition** Oxidation – Reduction Potential (ORP)
	Geochem samples, Minerals and Soil	Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn, Bi, Sc, Ga, Te, Th, U, V, W	**PE-4412 (Rev. 2)** Leaching at pH 4.2 of inorganic compounds **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 27)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography **IT-610 (Rev. 7)** Determination of Alkalinity **SMEWW 2540 C (23rd edition)** Total Dissolved Solids Dried at 180°C **PC-366 (Rev. 2)** WAD Cyanide **IT-689 (Rev.2)** Total Nitrogen
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		Total nitrogen (Finished by IT-689)	
		pH (Finished by SMEWW 4500 H+B)	

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals and Soil (cont'd.)		**SMEWW 4500 H+B** 23rd edition
		Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn, Bi, Sc, Ga, Te, Th, U, V, W	**PE-4413 (Rev. 5)** Net acid generation (NAG) **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 27)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography **IT-610 (Rev. 7)** Determination of Alkalinity **SMEWW 2540 C (23rd edition)** Total Dissolved Solids Dried at 180°C **PC-366 (Rev. 2)** WAD Cyanide **IT-689 (Rev.2)** Total Nitrogen **SMEWW 4500 H+B** 23rd edition
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Nitrites, Sulphates	
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		Total nitrogen (Finished by IT-689)	
		pH (Finished by SMEWW 4500 H+B)	
		Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn, Bi, Sc, Ga, Te, Th, U, V, W	**PE-4414 (Rev. 3)** Shake Flask Test, Solubility Testing in Waters and Wastes by Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES) **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 27)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)**
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	
		Total alkalinity and bicarbonate (CaCO3) (Finished by IT-610)	
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		WAD cyanide (Finished by PC-366)	
		Total nitrogen (Finished by IT-689)	
		pH (Finished by SMEWW 4500 H+B)	

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals and Soil (cont'd.)		Anions in Waters by Ion Chromatography **IT-610 (Rev. 7)** Determination of Alkalinity **SMEWW 2540 C (23rd edition)** Total Dissolved Solids Dried at 180°C **PC-366 (Rev. 2)** WAD Cyanide **IT-689 (Rev.2)** Total Nitrogen **SMEWW 4500 H+B** 23rd edition
Environmental – Inorganic	Surface water, Ground water, Sea water and Saline water	Surface active agents (Foaming power)	**ISO 696:1975** Surface active agents -- Measurement of foaming power -- Modified Ross-Miles method
		Total Nitrogen	**IT-689 (Rev. 2)** Total Nitrogen
		Chlorophyll-A	**PC-367 (Rev. 3)** Chlorophyll A in Waters based on SMEWW 10200 H (23rd edition)
		Color	**SMEWW 2120 B (23rd edition)** Visual Comparison Method
		Total Solids	**SMEWW 2540 B (23rd edition)** Total Solids Dried at 103-105ºC
		Total dissolved solids	**SMEWW 2540 C (23rd edition)** Total Dissolved Solids Dried at 180°C
		Total Suspended Solids	**SMEWW 2540 D (23rd edition)** Total Suspended Solids
		Settleable Solids	**SMEWW 2540 F (23rd edition**) Settleable Solids

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Surface water, Ground water, Sea water and Saline water (cont'd.)	Oils and Greases	**SMEWW 5520 B (23rd edition)** Liquid-Liquid Partition Gravimetric Method
	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water	Total Alkalinity, Carbonates, Bicarbonates	**IT-610 (Rev. 7)** Determination of Alkalinity based on SMEWW 2320 B Alkalinity Titration Method (23rd edition)
		Total Cyanide, Total Extractable Phenol, Anionic Surfactants (MBA), Ammonia, Total, Free and Wad Cyanide, Ammonia/ ammonium nitrogen	**PC-394 (Rev. 2)** Ammonium, Anionic Surfactants, Phenolic Compounds and Cyanides by FIA
		Dissolved: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn Total: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn	**PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES based on EPA Method 200.7 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES)
		Turbidity	**SMEWW 2130 B (23rd edition)** Turbidity by Nephelometry method
		Electric conductivity	**SMEWW 2510 B (23rd edition)** Conductivity. Laboratory Method
		Hexavalent chromium	**SMEWW 3500 Cr-B (23rd edition)** Chromium by Colorimetry
		Chlorine (residual)	**SMEWW 4500 Cl-B (23rd edition)** Chlorine by Iodometry
		Total Cyanide	**SMEWW 4500-CN E (23rd edition)** Colorimetric Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	Total Cyanide (cont'd.)	Treatment of Samples: 4500-CN-. B. Preliminary Treatment of Samples 23rd Edition, 2017. SM-APHA/AWWA/WEF
		Cyanide	**SMEWW 4500-CN-F (23rd edition)** Cyanide-Ion Selective Electrode Method Treatment of Samples: 4500-CN-. B. Preliminary Treatment of Samples. 23rd Edition 2017. SM - APHA/AWWA/WEF
		pH	**SMEWW 4500 H+B (23rd edition)** Electrometric Method
		Ammoniacal Nitrogen	**SMEWW 4500 NH3-D (23rd edition)** Ammonia by Selective Electrode
		Nitrite (expressed as NO2 and N-NO2), Nitrite, Nitrogen-nitrite	**SMEWW 4500 NO2-B (23rd edition)** Ultraviolet Spectrophotometric Screening Method
		Nitrate, Nitrogen-nitrate	**SMEWW 4500 NO3-D (23rd edition)** Nitrate Electrode Method
		Total sulfur	**SMEWW 4500 S-2 G (23rd edition)** Ion Selective Electrode Method
		Sulphates	**SMEWW 4500 SO4-D (23rd edition)** Sulfate in Water by Gravimetry
		Phenolic compounds	**SMEWW 5530 C (23rd edition)** Chloroform Extraction Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)		Phenolic compounds (cont'd.)	Treatment of samples: 5530 B. Cleanup Procedure. 23rd Edition 2017. SM - APHA/AWWA/WEF
		Anionic Surfactants	**SMEWW 5540 C (23rd edition)** Anionic Surfactants as MBAS
	Drinking water, Catchment sources (Surface water, Ground water, and other for human consumption)	Turbidity	**ME-03-2007** Manual SISS, Determination of Turbidity by Nephelometric Method
		Fluoride	**ME-06-2007** Manual SISS, Determination of Fluoride by Specific Electrode Method
		Nitrogen-Nitrate	**ME-16-2007** Manual SISS, Determination of Nitrate by Specific Electrode Method
		Nitrogen-Nitrite	**ME-17-2007** Manual SISS, Determination of Nitrite by UV-VIS molecular absorption spectrophotometry method
		True Color	**ME-24-2007** Manual SISS, True Color Determination by Pt-Co Method
		Ammoniacal Nitrogen	**ME-27-2007** Manual SISS, Determination of Ammonia by Specific Electrode Method
		Chloride	**ME-28-2007** Manual SISS, Determination of Chloride by Argentometric Method
		pH	**ME-29-2007** Manual SISS, Determination of pH by Electrometric Method
		Total Solids dissolved	**ME-31-2007** Manual SISS, Determination

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Catchment sources (Surface water, Ground water, and other for human consumption) (cont'd.)		of Solids dissolved by Gravimetric Method
		Phenolic compounds	**ME-32-2007** Manual SISS, Determination of phenolic compounds by UV-VIS molecular absorption spectrophotometry method
		Determination of Monochloramine by DPD Titrimetric Method with FAS.	**ME-23-2007** Manual SISS, Titrimetric method of DPD with FAS
		Determination of residual free Chlorine by D.P.D. Ferrous Titrimetric (F.A.S.) - Method used to verify field equipment.	**ME-33-2007** Manual SISS, Titrimetric method of DPD with FAS
		Odor	**ME-25-2013** Manual SISS, Odor Determination by Organoleptic Method
		Taste	**ME-26-2013** Manual SISS, Taste Determination by Organoleptic Method
	Drinking water, Surface water and Ground water	Dissolved: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Tl, Te, Ti, Th, U, V, W, Zn Total: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Tl, Te, Ti, Th, U, V, W, Zn	**PE-303 (Rev. 27)** Total and Dissolved Elements in Waters by ICP-MS Spectroscopy based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
		Langelier Index (Saturation Index)	**SMEWW 2330B (23rd edition)** Langelier Index (Saturation Index)
		Hardness	**SMEWW 2340B (23rd edition)** Hardness by Calculation
	Drinking water, Surface water,	Sodium Adsorption Ratio (RAS) and Sodium Percentage	**NCh 1333:1978 Mod. 1987** Sodium

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Ground water, and Process water		Adsorption Ratio (RAS) and Sodium Percentage
	Wastewater	pH	**NCh 2313/1:2021** Wastewater - Methods of analysis - Part 1: Determination of pH
		Suspended solids	**NCh 2313/3:1995** Wastewater - Methods of analysis - Part 3: Determination of total suspended solids dried at 103 °C - 105 °C
		Sedimentable solids	**NCh 2313/4:1995** Wastewater - Methods of analysis - Part 4: Determination of settleable solids - Volumetric method
		Biochemical Oxygen Demand	**NCh 2313/5:2005** Wastewater - Methods of analysis - Part 5: Determination of Biochemical Oxygen Demand (BOD5)
		Cyanide	**NCh 2313/14:1997** Wastewater - Methods of analysis - Part 14: Determination of total cyanide
		Total phosphorus	**NCh 2313/15:2009** Wastewater - Methods of analysis - Part 15: Determination of total phosphorus
		Ammoniacal Nitrogen	**NCh 2313/16:2010** Wastewater - Methods of analysis - Part 16: Determination of ammonia nitrogen - Potentiometric method
		Sulfide	**NCh 2313/17:1997** Wastewater - Methods of analysis - Part 17: Determination of total sulfur

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)	Dissolved sulfates	**NCh 2313/18:1997** Wastewater - Methods of analysis - Part 18: Determination of dissolved sulphate by waste calcination
		Phenol Index	**NCh 2313/19:2001** Wastewater - Methods of analysis - Part 19: Determination of the phenol index - Spectrometric method of 4-aminoantipyrine after distillation
		Foaming power	**NCh 2313/21:2010** Wastewater - Methods of analysis - Part 21: Determination of the foaming power
		Chemical demand for oxygen	**NCh 2313/24:1997** Wastewater - Methods of analysis - Part 24: Determination of chemical oxygen demand (COD)
		Aluminum, Arsenic, Boron, Cadmium, Zinc, Copper, Chrome, Tin, Iron, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Lead, Selenium	**NCh 2313/25:1997** Wastewater - Methods of analysis - Part 25: Determination of metals by plasma emission spectroscopy - Inductively coupled plasma method (I.C.P.)
		Nitrogen Kjeldahl	**NCh 2313/28:2009** Wastewater - Methods of analysis - Part 28: Determination of nitrogen Kjeldahl - Potentiometric method with previous digestion
		Chlorides	**NCh 2313/32:1999** Wastewater - Methods of analysis - Part 32: Chloride determination

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)		- Mohr Argentometric method
		Fluorides	**NCh 2313/33:1999** Wastewater - Methods of analysis - Part 33: Determination of fluoride - Potentiometric method after distillation
		Sample Collection of Wastewater	**PICH-212 (Rev. 6)** Wastewater Sample Collection based on NCh 411/10:2005 and NCh 411/3:2014
	Wastewater and process water	Oils and Greases	**NCH 2313/6:2015** Wastewater - Methods of analysis - Part 6: Determination of oils and greases
		Total Hydrocarbons, Fixed Hydrocarbons, Volatile Hydrocarbons	**NCh 2313/7:2021** Wastewater - Test methods - Part 7: Determination of total hydrocarbons
	Drinking water, Surface water, Ground water, Wastewater and Process water	Free Cyanide	**PC-365 (Rev. 2)** Free Cyanide based on SMEWW 4500-CN J Colorimetric Method (23rd edition)
		WAD Cyanide	**PC-366 (Rev. 2)** WAD Cyanide based on SMEWW 4500-CN I. Weak Acid Dissociable Cyanide (23rd edition)
		Chlorides, Fluorides, Phosphates, Nitrates (as NO3 and N-NO3), Nitrites (as NO2 and N-NO2), Sulfates, Bromides, Chlorite, Chlorate	**PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography based on EPA Method 300.1
	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater, Process water, Soils, Lake	Arsenic (As^{+3}, As^{+5}, Monomethyl Arsenate, Dimethyl Arsenic)	**PC-372 (Rev. 5)** Chemical speciation of arsenic by HPLC-ICP-MS (anion exchange)
		Mercury (MeHg and Hg (II))	**PC-373 (Rev. 3)** Chemical speciation of Mercury by HPLC-

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Sediment, Marine Sediment, Aquatic Sediment and Marine Biota		ICP-MS (Reverse phase C18)
	Wastewater, Process water, Sea water and Saline water	Dissolved: Al, Sb, As, Ba, Be, Bi, B, Cd, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mn, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te, Ti, Th, U, V, W, Zn Total: Al, Sb, As, Ba, Be, Bi, B, Cd, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mn, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te, Ti, Th, U, V, W, Zn	**PE-303 (Rev. 27)** Total and Dissolved Elements in Waters by ICP-MS Spectroscopy based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment	Sb, As, Be, Bi, Cd, Co, Cr, Sn, Li, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te,V	**PE-325 (Rev. 20)** Determination of Metals in soil and sludge based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS) **PE-150 (Rev. 19)** Digestion of samples by digester block. Based on EPA 3050B "Acid Digest of Sediments, Sludges, and Soils"; SM 3030E. Standard Methods for the Examination of Water and Wastewater 23ed edition. Nitric acid digestion
		Al, S, Ba, B, Ca, Cu, Sr, P, Fe, Mg, Mn, K, Na, Si, Ti, Zn	**PE-951 (Rev. 11)** Determination of Metals in soil and sludge by ICP based on EPA Method 200.7 - Determination of Trace Elements in Waters and Wastes by

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment (cont'd.)	Al, S, Ba, B, Ca, Cu, Sr, P, Fe, Mg, Mn, K, Na, Si, Ti, Zn (cont'd.)	Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES) **PE-150 (Rev. 19)** Digestion of samples by digester block. Based on EPA 3050B "Acid Digest of Sediments, Sludges, and Soils"; SM 3030E. Standard Methods for the Examination of Water and Wastewater 23ed edition. Nitric acid digestion
		Moisture, Total solids	**PEC-022 (Rev. 15)** % Moisture, Dry Matter and Total Solids
		Total organic matter	**PEC-012 (Rev.14)** Total Organic Matter
		Fixed solids; Volatile solids	**Method 3.1 of the Protocol of Analysis Methods for Soils and Sludges.**
	Irrigation water and soil solutions	Alkalinity, Nitrates, Ammonium, Chlorides	**PE-336 (Rev. 20)** Ammonium, Ammonia nitrogen, Chloride, TON, Alkalinity and Urea using the automatic method of UV-Visible spectrophotometry
		Aluminum, Boron, Calcium, Copper, Magnesium, Manganese, Iron, Phosphate, Potassium, Sodium, Sulphate, Zinc	**PEC-009 (Rev. 27)** Determination of Al, B, Ca, Cu, Fe, K, Mg, Mn, Mo, P, Na, S, Si, Zn by inductively coupled plasma optical emission spectroscopy
	Irrigation water and soil solutions, Soils; Sludge; Lake Sediment; Marine Sediment; Aquatic Sediment	pH	**PEC-001 (Rev. 25)** Determination of pH
		Electrical Conductivity	**PEC-002 (Rev. 20)** Determination of Electrical Conductivity

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Groundwater	Sample Collection of Groundwater, Water table measurement	**PICH-210 (Rev. 7)** Groundwater Sample Collection based on NCh 411/11:1998 and NCh411/3:2014
	Drinking water, Surface water, Sea water and Saline water	Sample Collection of Drinking water, Surface water, Sea water and Saline water	**PICH-211 (Rev. 8)** Drinking Water, Catchment Sources and Raw Water Sample Collection based on NCh 409/2:2004, NCh 411/3:2014 and SISS, Manual
	Drinking water Drinking water (cont'd.)	Odor	**PICH-213 (Rev. 2)** Odor determination in situ based on NCh409/1:2005, NCh410:1996. SMEWW 2170 (23rd edition)
		Taste	**PICH-214 (Rev. 2)** Taste determination in situ Based on NCh409/1:2005, NCh410:1996. SMEWW 2170 (23rd edition)
	Soils	Sampling of soils parameters	**PICH-302 (Rev. 3)** Sampling of soils based on NCh 3400:2016
	Lake Sediment, Marine Sediment and Aquatic Sediment	Sampling of Lake Sediment, Marine Sediment, Aquatic Sediment and Sludge parameters	**PICH-303 (Rev. 3)** Sampling of Sediments and Sludge based on ISO 5667-12:2017
	Drinking Water, Surface water, Ground water, Sea water and Saline water	Odor	**SMEWW 2150 B (23rd edition)** Threshold Odor Test
		DBO5	**SMEWW 5210 B (23rd edition)** Biochemical Oxygen Demand 5-Day Bod Test
		COD	**SMEWW 5220 D (23rd edition)**

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)			Chemical Oxygen Demand Closed Reflux Colorimetric Method
	Drinking water, marine water, wastewater, surface water, groundwater	Total solids	**SMEWW 2540 B (23rd edition)** Total Solids Dried at 103-105 °C
		Fixed solids, Volatile solids	**SMEWW 2540 E (23rd edition)** Fixed and Volatile Solids Ignited at 550°C
	Sea water and Saline water	Ammonium	**PC-404** based on SMEWW 4500-NH3-F (23rd edition) Phenate Method
		Kjeldahl Nitrogen	**SMEWW 4500 Norg D (23rd edition)** Macro Kjeldahl Method
		Nitrate (expressed as NO3 and N-NO3)	**SMEWW 4500 NO3-E (23rd edition)** Cadmium Reduction Method
	Soils, Sludges, marine sediments, lake sediments, aquatic Sediment, minerals	Sieve Mesh Particle Retention Size(s) – Granulometry 0,053 mm; Granulometry 0,063 mm; Granulometry 0,075 mm; Granulometry 0,106 mm; Granulometry 0,125 mm; Granulometry 0,150 mm; Granulometry 0,212 mm; Granulometry 0,250 mm; Granulometry 0,425 mm; Granulometry 0,500 mm; Granulometry 0,850 mm; Granulometry 1,00 mm; Granulometry 1,18 mm; Granulometry 2,00 mm; Granulometry 4,00 mm; Granulometry 4,75 mm; Granulometry 6,30 mm; Granulometry 8,00 mm; Granulometry 9,50 mm; Granulometry 19,00 mm; Granulometry 63 mm; Granulometry % bottom	**PE-4039 (Rev.5)** Granulometric analysis

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water and Process water	Pesticides: Aldrín (SP), Alfa-HCH (α-BHC), Ametrina, Atrazina, Atraton, Azinfos Metil, Beta-HCH, Clordano Cis, Clordano Trans, Chlorobenzilate, Delta-HCH, Diazinon, Dieldrin (SP), Diallate, Demeton S, Disulfoton Endosulfan I, Endosulfan II, Endosulfan Sulfato, Endrin, Endrin Aldehido, Endrin Cetona, Etion, Heptacloro (SP), Heptacloro Epóxido (SP), Hexaclorobenceno, Isodrin, Lindano, Malation (SP), Metoxiclor, p,p-DDD, p,p-DDE, p,p-DDT, Paration Etil, Paration Metil (SP), Piridaben, Prometrina Prometros Propazina, Simazina, Simetrina, Terbutilazina, Terbutrin, Trietazina, Trifluralin, Vinclozolina (SP 1,2-Dibromo-3-chloropropane, PAH´s: Acenafteno, Acenaftileno, Benzo (a) antraceno, Benzo (a) pireno, Benzo (b) fluoranteno, Benzo (e) pireno, Benzo (g,h,i) perileno, Benzo (k) fluoranteno, Dibenzo (a,h) antraceno, Indeno (1,2,3-c,d) pireno, Pireno, Criseno, Fenantreno, Fluoranteno, Fluoreno, Naftaleno, Antraceno PCB´s: PCB nº 101, PCB nº 118, PCB nº 138, PCB nº 153, PCB nº 180, PCB nº 28, PCB nº 52	**PC-204 (Rev. 15)** Determination of pesticide residues, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D method
		Cloruro de Vinilo, 1,1-Dicloroeteno, Diclorometano, 1,2-trans-Dicloroeteno, 1,1-Dicloroetano, 1,2-cis-Dicloroeteno, 2,2-Dicloropropano, Cloroformo, 1,1,1-Tricloroetano, 1,1-Dicloropropeno, Tetracloruro de Carbono, 1,2-Dicloroetano, Benceno, Tricloroeteno (1,1,2), 1,2-Dicloropropano, Dibromometano, Bromodiclorometano, 1,3-cis-Dicloropropeno, Tolueno, 1,3-trans-Dicloropropeno, 1,1,2-Tricloroetano, Tetracloroeteno, 1,3-Dicloropropano, Clorodibromometano, Clorobenceno, 1,1,1,2-Tetracloroetano, Etilbenceno, m,p-	**PC-241 (Rev. 16)** Determination of VOCs in Waters based on EPA 5021 A

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	Xileno, o-Xileno, Estireno, Bromoformo, Isopropilbenceno, 1,1,2,2-Tetracloroetano, 1,2,3-Tricloropropano, Bromobenceno, n-Propilbenceno, 2 – Clorotolueno, 1,3,5-Trimetilbenceno, 4-Clorotolueno, tert-Butilbenceno, 1,2,4-Trimetilbenceno, sec-Butilbenceno , 1,3-Diclorobenceno, p-Isopropiltolueno, 1,4-Diclorobenceno, 1,2-Diclorobenceno, 1,2-Dibromo -3 – Cloropropano, 1,2,4-Triclorobenceno, Hexaclorobutadieno, Naftaleno, 1,2,3-Triclorobenceno Sum of trihalomethane, Sum of xylenes	**PC-241 (Rev. 16)** Determination of VOCs in Waters based on EPA 5021 A (cont'd.)
	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment	Pesticides: Alacloro, Aldrín (SP), Alfa-HCH (α-BHC), Ametrina, Atrazina, Azinfos Metil, Benalaxil (SP), Beta-HCH (ß-BHC), Captan, Cipermetrina, Ciproconazol, Clodinafop Propargil ester, Clordano Cis, Clordano Trans, Clordecona, Clorfenvinfos, Clorotalonil, Clorpirifos , Clortal-Dimetil, Delta-HCH, Diazinon, Dieldrin (SP), Diflufenican, Dimetoato (SP), Endosulfan I, Endosulfan II, Endosulfan Sulfato, Endrin, Endrin Aldehido, Endrin Cetona, EPTC, Etion, Etoprofos, Fenamifos (SP), Flusilazol, Folpet, Heptacloro (SP), Heptacloro Epóxido (SP), Hexaclorobenceno, Isodrin, Lindano, Malation (SP), Metalaxil (SP), Metidation, Metolacloro, Metoxicloro, Metribuzina, Miclobutanil, Mirex, Molinato, o,p-DDT, Oxifluorfen, p,p-DDD, p,p-DDE, P,p-DDT, Paration Etil, Paration Metil (SP), Pendimetalina, Pentaclorobenceno, Piridaben, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Simetrina, Terbutilazina, Terbutrin, Tetradifon, Triclorfon, Trietazina, Trifluoralin, Vinclozolina (SP)	**PC-205 (Rev. 8)** Determination of pesticide residue, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment (cont'd.)	PAH´s: Acenafteno, Acenaftileno, Antraceno, Benzo (a) antraceno, Benzo (a) pireno, Benzo (e) pireno, Benzo (b) fluoranteno, Benzo (g,h,i) perileno Benzo (k) fluoranteno, Criseno, Dibenzo (a,h) antraceno, Fluoranteno, Fluoreno, Indeno (1,2,3 – c,d) pireno, Fenantreno, Pireno, Naftaleno PCBs: PCB nº 101, PCB nº 118, PCB nº 138, PCB nº 153, PCB nº 180, PCB nº 28, PCB nº 52	**PC-205 (Rev. 8)** Determination of pesticide residue, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D (cont'd.)
	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water, Process water, Soils; Lake Sediment; Marine Sediment; Aquatic Sediment	Volatile Hydrocarbons C6-C10; Fixed Hydrocarbons >C10-C28; Fixed Hydrocarbons >C28-C40; Fixed Hydrocarbons >C10-C40; Total Petroleum Hydrocarbons (TPHs) C6-C40	**PE-649 (Rev. 12)** Determination of Hydrocarbon in a range C6 - C40, water and soils by Gas Chromatography – FID based on EPA Method 8015 D and Draft TNRCC Method 1006
Environmental – Microbiology	Drinking water, catchment sources	Escherichia coli detection	**ME-01-2007** Manual SISS, Multiple Tube Method
		Escherichia coli detection	**ME-02-2007** Manual SISS, Membrane filtration method
		Determination of total Coliforms	**NCh1620/1:2020** Water - Determination of total coliform bacteria and Escherichia coli - Part 1: Multiple tube method (MPN)
		Determination of total Coliforms	**NCh1620/2:2020** Water - Determination of total coliform bacteria and Escherichia coli - Part 2: Membrane filtration method
		Determination of intestinal Enterococci	**ISO 7899-2:2000** Water quality -- Detection and enumeration of intestinal enterococci--

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Microbiology (cont'd.)	Drinking water, catchment sources (cont'd.)		Part 2: Membrane filtration method
		Determination of fecal coliforms	**SMEWW 9222 G (23rd Edition)** Other Escherichia coli Procedures
	Wastewater	Determination of fecal coliforms	**NCh2313/22.Of95**
	Surface water, groundwater, seawater	Determination of fecal coliforms	**SMEWW 9222 D (23rd Edition)** Thermotolerant (Fecal) Coliform Membrane Filter Procedure
	Drinking water, surface water, groundwater, seawater, wastewater	Determination of fecal coliforms	**SMEWW 9221 E-1 (23rd Edition)** Thermotolerant (Fecal) Coliform Procedure
		Determination of total Coliforms	**SMEWW 9221 B (23rd Edition)** Standard Total Coliform Fermentation Technique
		Determination of Escherichia coli	**SMEWW 9221 F (23rd Edition)** Escherichia coli Procedures Using Fluorogenic Substrate
	Drinking water, surface water, groundwater, seawater	Determination of total Coliforms	**SMEWW 9222 B (23rd Edition)** Standard Total Coliform Membrane Filter Procedure using Endo Media
	Drinking water, catchment sources, surface water, groundwater, seawater	Determination of Escherichia coli	**SMEWW 9222 H (23rd Edition)** Partitioning E. coli from MF Total Coliform using EC-MUG Broth
Air Quality	Air Quality	Particulate Matter by Gravimetry in Filters	**PC-330 (Rev. 2)** Weighing Filters high Volume (Hi- VOL) – For air Quality tests only