



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, 2024

Effective Date June 21, 2021



A handwritten signature in black ink that reads 'Raj Nathan'.

President

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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AGQ CHILE S.A.

www.agqlabs.cl

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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-Aminohydroxy-2-imidazolidinone hydrochloride (AHD), 3-Amino-5-morpholinomethyl-2-oxazolidinone (AMOZ), Semicarbazide hydrochloride (SEM)	PC-227 (Rev. 9) Determination of nitrofurantoin metabolites residues by LC-MS / MS
		Flumequine, Oxolinic acid, Emamectin benzoate, Florfenicol, Diflufenuron, Azamethifos, 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)

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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, Sulfamethoxypyridazine, Sulfadoxine, Sulfadiazine, Sulfathiazole, Sulfamerazine, Sulfachloropyridazine	PC-341 (Rev. 7) Determination of sulfonamides residues by LC/MS-MS
		Decoquinatate, 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.

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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, Ametocladin, 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

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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, Cihalofof 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)

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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, Fenciclonil, 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-butyl, Flubendiamida, Flucitrinato, Fludioxonilo, Flufenacet (Suma),	PE-674 (Rev. 18) Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

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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, Fluxaproxad, 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, Malaixon, Malation (Suma), Malation, Mandipropamid, Matrina, MCPA, Mecarbam, Mefenpir Dietil, Mepanipirim, Mepronilo, Meptildinocap, Mesosulfuron Metil, Metabenzthiazuron, Metacrifós, Metaflumizona, Metalaxil, Metamidofos, Metamitrona, Metazacloro, Metconazol, Metidación, Metil Tiofanato, Metiocarb (Suma), Metiocarb,	PE-674 (Rev. 18) Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

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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, Paration Etil, Paration Metil, Paration 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, Propaquizafof, Propargita, Propazina, Propetamphos, Propiconazol, Propizamida,	PE-674 (Rev. 18) Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

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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, Protiocanazol, Protiofos, Quinalfós, Quinclorac, Quinometionato, Quinoxifen, Quintoceno (Suma), Quintoceno, Quizalofop-Ethyl, Rimsulfuron, Rotenona, Saflufenacil, Sebutilazina, Setoxidim (Suma), Setoxidim, Siltiofam, Simazina, Sulcotriona, Sulfosulfuron, Sulfotep, Sulfoxaflo, Sulprofos, Tebuconazol, Tebufenocida, Tebufenpirad, Tecnaceno, Teflubenzurón, Teflutrina, Tepraloxidim, Terbacil, Terbufos, Terbufos Sulfona, Terbufos Sulfóxido, Terbumeton, Terbutilazina, Terbutilazina Desetil, Terbutrin, Tetraclovinfos, Tetraconazol, Tetradifón, Tetrahidroftalamida (Captan), Tetrametrina, Tetrasul, TFNA, TFNG, Thiametoxam, Tiabendazol, Tiacloprid, Tiazuron, 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, Triflorina, 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

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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 Mollusks	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 Mollusks	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)

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Food – Microbiology	Food for human consumption	Detection of Listeria Monocytogenes	ISO 11290-1:2017 (E) Microbiology of the food chain -- Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp.-- Part 1: Detection method
		Detection of Listeria sp.	ISO 11290-1:2017 (E) 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 spp	NCh2675:2002 Hydrobiological Products - Salmonella Detection
		Determination of total coliforms	NCh2635/1:2001 Hydrobiological Products, except live bivalve mollusks - Determination of Coliforms - Part 1: Determination of Coliforms and Fecal Coliforms - Most Probable Number Technique (MPN)
		Determination of fecal coliforms	NCh2635/1:2001 Hydrobiological Products, except live bivalve mollusks - Determination of Coliforms - Part 1: Determination of Coliforms and Fecal Coliforms - Most Probable Number Technique (MPN)
		Determination of aerobic mesophylls	NCh2659:2002 Hydrobiological

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Food – Microbiology (cont'd.)	Food for human consumption (cont'd.)		products - Determination of mesophilic aerobic microorganisms - Plate count technique at 35 ° C
		Determination of total coliforms	NCh2635/2:2001 Hydrobiological Products, except live bivalve mollusks - Determination of Coliforms - Part 2: Plate Count Technique
		Determination of Escherichia coli	NCh2636:2001 Hydrobiological products, except live bivalve mollusks - Determination of Escherichia coli - Most probable number technique (MPN)
		Determination of Enterobacteriaceae	NCh2676:2002 Hydrobiological products - Determination of Enterobacteriaceae without resuscitation - NMP technique and plate count technique
		Determination of Escherichia coli β-glucuronidasa positiva	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	NCh2734:2002 Hydrobiological products - Determination of

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Food – Microbiology (cont'd.)	Food for human consumption (cont'd.)		mould and yeasts - Plate count technique
		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 30°C
Environmental Hygiene Microbiology	Surfaces, utensils and manipulators	Detection of Listeria Monocytogenes	PC-303 (Rev.4) based on NCh3057.Of2007 ISO11290-1:2017 Listeria Detection on Surfaces
		Detection of Listeria sp	PC-303 (Rev.4) based on NCh3057.Of2007 ISO11290-1:2017 Listeria Detection on Surfaces
		Detection of total coliforms, fecal coliforms and Escherichia coli	PC-209 (Rev.7) based on NCh3057.Of2007 Standard Methods for the Examination of Water and Wastewater 9221B, 9221E, 9221F 22st 2012 Investigation of Coliforms, Fecal Coliforms and E Coli

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Environmental Hygiene Microbiology (cont'd.)	Surfaces, utensils and manipulators (cont'd.)		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) based on NCh3057.Of2007 NCh2675.Of2002 Salmonella Detection in Handlers and Surface
		Staphylococcus aureus detection	PC-206 (Rev.8) based on NCh3057.Of2007 NCh2828.Of2003 Determination of Staphylococcus Aureus on Surfaces and Handlers
		Determination of aerobic mesophylls	PC-210 (Rev.9) based on NCh3057.Of2007 NCh2659.Of2002 Determination of Aerobic Mesophilic Microorganisms on Surfaces and Manipulators
		Determination of Enterobacteriaceae	PC 268 (Rev.2) Enterobacteriaceae on Surfaces and Manipulators
		Determination of Mould	PC 252 (Rev.2) Mould and Yeasts on Surfaces and Handlers
		Determination of Yeast	PC 252 (Rev.2) Mould and Yeasts on Surfaces and Handlers
	Environment (Atmosphere)	Determination of aerobic mesophylls	Standard Methods (SM) for examination of dairy products 17 Ed, chapter 13 13.023
		Determination of Mould (Mould)	Standard Methods (SM) for examination of dairy products 17 Ed, chapter 13 13.023

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Environmental Hygiene Microbiology (cont'd.)	Environment (Atmosphere) (cont'd.)	Determination of yeasts (yeast)	Standard Methods (SM) for examination Of 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, Manganese, Molybdenum, Potassium, Sodium, Zinc, Sulfur	PEC-009 (Rev. 27) Determination of Ca, Mg, Na, K, Fe, Mn, 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-ethylhexil) ftalato (DEHP), Dibutilftalato (DBP), Butilbencilftalato (BBP), Diisonilftalato (DINP), Diisodecilftalato (DIDP), Di-n-octilftalato (DNOP)	EN 14372:2004 Child use and care articles

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Safety (cont'd.)	Toys and School supplies (cont'd.)	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, N-nitrosodiisobutylamine, N-nitrosodiisononylamine, N-nitrosodiisopropylamine, N-nitrosodimethylamine, N-nitrosodipropylamine, N-nitrosomorpholine, N-nitrosopiperidine	PC-355 (Rev. 2) Nitrosamines in PVC by LC-MS/MS based on EN 71-12:2013 N-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	Antimonio, Arsénico, Bario, Boro, Cobalto, Cobre, Estaño, Flúor, Hierro, Litio, Manganese, Plata, Plomo, Zinc	PC-1040 (Rev.2) Determination of Metals in Materials and Articles in Contact with Food in Materials and articles in contact

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Safety (cont'd.)	with food (plastics, metals, cellulose)		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, Mineral and Soil – Inorganic	Minerals and Soil	Oxidation pH	PE-991 (Rev. 2) Determination of oxidation pH	
		Sample preparation	PE-4017 (Rev. 9) Preparation of mineral sample	
	Minerals and Soil (cont'd.)	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, Ti, 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)
			Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	

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Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals and Soil (cont'd.)	Total Dissolved Solids (Finished by SMEWW 2540 C)	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 23 rd edition
		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, 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)
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	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 23 rd edition
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		Total nitrogen (Finished by IT-689)	
		pH (Finished by SMEWW 4500 H+B)	

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Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals and Soil (cont'd.)	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)
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	PE-2107 (Rev.7) Total, Dissolved and Soluble Elements in Acids for Waters
		Total alkalinity and bicarbonate (CaCO ₃) (Finished by IT-610)	through ICP-OES
		Total Dissolved Solids (Finished by SMEWW 2540 C)	PE-303 (Rev. 27) Total and Dissolved Elements in Waters by ICP-MS
		WAD cyanide (Finished by PC-366)	PE-2090 (Rev. 16) Anions in Waters by Ion Chromatography
		Total nitrogen (Finished by IT-689)	IT-610 (Rev. 7) Determination of Alkalinity
		pH (Finished by SMEWW 4500 H+B)	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 23 rd 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)

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Environmental – Inorganic (cont'd.)	Surface water, Ground water, Sea water and Saline water (cont'd.)		Visual Comparison Method
		Total Solids	SMEWW 2540 B (23rd edition) Total Solids Dried at 103-105°C
		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
		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, 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, 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)

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Environmental – Inorganic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	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 Treatment of Samples: 4500-CN-C Total Cyanide After Distillation. CN ⁻ Cyanide. 23 rd Edition, 2017. SM-APHA/AWWA/WEF
		Cyanide	SMEWW 4500-CN-F (23rd edition) Cyanide-Ion Selective Electrode Method Treatment of Samples: 4500-CN-C Total Cyanide After Distillation. CN ⁻ Cyanide. 23 rd 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 NO ₂ and N-NO ₂), Nitrite, Nitrogen-nitrite	SMEWW 4500 NO₂-B (23rd edition)

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Environmental – Inorganic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)		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 Treatment of samples: 5530 B. Cleanup Procedure. 23 rd 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

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Environmental – Inorganic (cont'd.)	Drinking water, Catchment sources (Surface water, Ground water, and other for human consumption) (cont'd.)	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 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		

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Environmental – Inorganic (cont'd.)	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	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)
		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	
		Langelier Index (Saturation Index)	SMEWW 2330B (23rd edition) Langelier Index (Saturation Index)
		Hardness	SMEWW 2340B (23rd edition) Hardness by Calculation
	Drinking water, Surface water, Ground water, and Process water	Sodium Adsorption Ratio (RAS) and Sodium Percentage	NCh 1333:1978 Mod. 1987 Sodium 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)

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Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)	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
		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)

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Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)	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 - 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

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Environmental – Inorganic (cont'd.)	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 NO ₃ and N-NO ₃), Nitrites (as NO ₂ and N-NO ₂), 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 Sediment, Marine Sediment, Aquatic Sediment 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)
	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	

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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.)	Sb, As, Be, Bi, Cd, Co, Cr, Sn, Li, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te, V (cont'd.)	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 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

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)			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
	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	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	

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Environmental – Inorganic (cont'd.)			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) 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

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Environmental – Inorganic (cont'd.)	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
Environmental – Organic	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water and Process water	Pesticides: Aldrin (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)	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

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Environmental – Organic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	<p>antraceno, Indeno (1,2,3-c,d) pireno, Pireno, Criseno, Fenantreno, Fluoranteno, Fluoreno, Naftaleno, Antraceno</p> <p>PCB's: PCB n° 101, PCB n° 118, PCB n° 138, PCB n° 153, PCB n° 180, PCB n° 28, PCB n° 52</p>	
		<p>Cloruro de Vinilo, 1,1-Dicloroetano, Diclorometano, 1,2-trans-Dicloroetano, 1,1-Dicloroetano, 1,2-cis-Dicloroetano, 2,2-Dicloropropano, Cloroformo, 1,1,1-Tricloroetano, 1,1-Dicloropropeno, Tetracloruro de Carbono, 1,2-Dicloroetano, Benceno, Tricloroetano (1,1,2), 1,2-Dicloropropano, Dibromometano, Bromodiclorometano, 1,3-cis-Dicloropropeno, Tolueno, 1,3-trans-Dicloropropeno, 1,1,2-Tricloroetano, Tetracloroetano, 1,3-Dicloropropano, Clorodibromometano, Clorobenceno, 1,1,1,2-Tetracloroetano, Etilbenceno, m,p-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</p> <p>Sum of trihalomethane, Sum of xylenes</p>	PC-241 (Rev. 16) Determination of VOCs in Waters based on EPA 5021 A
	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment	<p>Pesticides: Alacloro, Aldrin (SP), Alfa-HCH (α-BHC), Ametrina, Atrazina, Azinfos Metil, Benalaxil (SP), Beta-HCH (β-BHC), Captan, Cipermetrina, Ciproconazol, Clodinafop Propargil ester, Clordano Cis, Clordano Trans, Clordecona,</p>	PC-205 (Rev. 8) Determination of pesticide residue, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-

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Environmental – Organic (cont'd.)	Soils, Sludge, Lake Sediment, Marine Sediment and Aquatic Sediment (cont'd.)	<p>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, Simeptrina, Terbutilazina, Terbutrin, Tetradifon, Triclorfon, Trietazina, Trifluoralin, Vinclozolina (SP)</p> <p>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</p> <p>PCBs: PCB n° 101, PCB n° 118, PCB n° 138, PCB n° 153, PCB n° 180, PCB n° 28, PCB n° 52</p>	MS-MS based on EPA Method 8270 D
	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water, Process water, Soils; Lake Sediment; Marine Sediment; Aquatic Sediment	<p>Volatile Hydrocarbons C6-C10; Fixed Hydrocarbons >C10-C28; Fixed Hydrocarbons >C28-C40; Fixed Hydrocarbons >C10-C40; Total Petroleum Hydrocarbons (TPHs) C6-C40</p>	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, Water for	Escherichia coli detection	ME-01-2007 Manual SISS

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Environmental – Microbiology (cont'd.)	consumption, catchment sources		(Superintendency of Sanitary Services Manual of test methods for drinking water), Multiple Tube Method
		Escherichia coli detection	ME-02-2007 Manual SISS (Superintendency of Sanitary Services Manual of test methods for drinking water), 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-- 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
		Sample Collection of Wastewater	PICH-212 (Rev. 6) Wastewater Sample Collection based on NCh 411/10:2005 and NCh 411/3:2014
	Drinking water, Water for	Determination of fecal coliforms	SMEWW 9222 D (23rd Edition) (Standard

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Environmental – Microbiology (cont'd.)	consumption, catchment sources, raw waters, surface water, groundwater, seawater		Methods for the Examination of Water and Wastewater 23rd Ed) Thermotolerant (Fecal) Coliform Membrane Filter Procedure
	Drinking water, water for consumption, catchment sources, raw waters, surface water, groundwater, seawater, wastewater	Determination of fecal coliforms	SMEWW 9221 E-1 (23rd Edition) (Standard Methods for the Examination of Water and Wastewater 23 rd) Thermotolerant (Fecal) Coliform Procedure
		Determination of total Coliforms	SMEWW 9221 B (23rd Edition) (Standard Methods for the Examination of Water and Wastewater 23rd Ed) Standard Total Coliform Fermentation Technique
		Determination of Escherichia coli	SMEWW 9221 F (23rd Edition) (Standard Methods for the Examination of Water and Wastewater 23rd Ed) Escherichia coli Procedures Using Fluorogenic Substrate
	Drinking water, water for consumption, catchment sources, surface water, groundwater, seawater	Determination of total Coliforms	SMEWW 9222 B (23rd Edition) (Standard Methods for the Examination of Water and Wastewater 23rd Ed) Standard Total Coliform Membrane Filter Procedure using Endo Media
	Drinking water, water for consumption, catchment sources, raw waters, surface water, groundwater, seawater	Determination of Escherichia coli	SMEWW 9222 H (23rd Edition) (Standard Methods for the Examination of Water and Wastewater 23rd Ed) Partitioning E. coli from MF Total

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Environmental – Microbiology (cont'd.)			Coliform using EC-MUG Broth
	Catchment sources, groundwater	Sample Collection of Groundwater	PICH-210 (Rev. 7) Groundwater Sample Collection based on NCh 411/11:1998 and NCh411/3:2014
	Drinking water, catchment sources, Surface water, Sea water and Saline water	Sample Collection of Drinking water, Surface water, Catchment sources, 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
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