

FIELD OF ACTIVITY: AGRI-FOOD

AGRI-FOOD/MISCELLANEOUS FOODSTUFFS – CEREALS PRODUCTS – FEED – FAT AND OILS - BEVERAGES AND SWEET AND SWEETENED PRODUCTS /PHYSICO-CHEMICAL ANALYSES		
Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
COMMON WHEAT	Moisture content, Protein content, Ash content, Mass per hectoliter, Falling number according to Hagberg-Perten, Sedimentation index (Zeleny), Gluten, Hardness, Damaged starch, Milling, Alveograph test <u>Bread making test (Physico-chemical analyses)</u> -moisture content, hydration -average volume <u>Bread making test (Sensory analyses)</u> Notation of the bread, notation of the crumb, baking value, notation of dough	DGPROT01
DURUM WHEAT	Moisture content, Protein content, Ash content, Mass per hectoliter, Falling number according to Hagberg-Perten, Gluten, control of the sieve 1.9 mm (overtail and extraction) <u>Impurities (analyses for addendum n°III) : Broken grains, Mottled grains and Grains with discoloured germ, Grain impurities, Sprouted grains, Grains affected with fusariosis, Besatz, Mitadine grains rate (Pohl farinotom), Mitadine grains (Scalpel)</u>	DGPROT01
FLOUR	Moisture content, Protein content, Ash content, Alveograph test, Gluten, Falling number according to Hagberg-Perten, amylograph, viscograph, Fat acidity, Sedimentation index (Zeleny), ascorbic acid, Damaged starch, farinograph test, rheofermentometer test, mixolab test <u>Bread making test (Physico-chemical analyses)</u> -moisture content, hydration -average volume <u>Bread making test (Sensory analyses)</u> Notation of the bread, notation of the crumb, baking value, notation of dough	DGPROT01
FLOUR AND SEMOLINA	Impurities of animal origin: insects fragments (including scales), Impurities of animal origin: insects fragments (including scales) (AOAC method). Moisture content, Protein content, Ash content, Falling number according to Hagberg-Perten, Gluten	DGPROT01

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Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
FEED (RAW MATERIALS, COMPOUND FEEDINGSTUFFS, PETFOOD, PREMIX AND FORAGES)	Moisture content, Ash content (raw and insoluble), crude proteins, soluble nitrogenous material, raw fat content, Oil content, Crude fiber, Van Soest parietal components (NDF-ADF-ADL), control of the sieve (overtail and extraction), insoluble lignin, insoluble plant walls in water, 1 hour enzymatic degradability, total starch, pregelatinized starch, total sugars, lactose, glucosinolates, anti-trypsin activity, collagen, nitrates, free fat, volatile nitrogen bases, urea, ergosterol, Iodine index, acidity, carotene, xanthophylls, raw energy, estimation of the digestibility by pepsin cellulase, Milk fodder unit, Meat fodder unit True proteins, really digestible in the intestine, peroxide index, viscosity, phytase activity, solubility with KOH, water activity, raw dissolved proteins, insoluble ash content in HCl, free lysine, total choline, free choline, pH, total fibers, soluble fibers, insoluble fibers, anisidine index, hexanal, oleic acid, BHA, BHT, ethoxyquin, lutein, lycopene, acrylamide, cyanuric acid, melamine, ileal digestibility, molecular weight profile <u>Only for forages</u> : dry matter, total nitrogenous material	DGPROT01
	Vitamin A, vitamin E, vitamin D3, vitamin C, vitamin B1, vitamin B2, vitamin PP/B3, vitamin B5, vitamin B6, vitamin B8, vitamin B9, vitamin B12, vitamin K3, vitamin H, tocopherols (alpha, beta, delta, gamma), total choline, free choline	DGPROT01
	Lysine, free lysine, methionine, free methionine, cystine, aspartic acid, threonine, serine, glutamic acid, proline, glycine, alanine, valine, isoleucine, leucine, tyrosine, phenylalanine, histidine, arginine, tryptophan, total taurine, free threonine, free tryptophan, sum of amino-acids	DGPROT01
	Total phosphorus, calcium, magnesium, potassium, sodium, iron, copper, Manganese, zinc, selenium, chlorine of chlorides, sulfur total, critical solubility of phosphorus, cobalt, cadmium, lead, arsenic, iodine, water-soluble phosphorus, fluorine, mercury	DGPROT01
	Carbadox, olaquinox, furazolidone, dimetridazole, robenidin, meticlorpindol, amprolium, virginiamycin, sulfamidin, bacitracin, ethopabate, ethoxyquin, oxybendazole, monensin, narasin, nicarbasin, robenidin, salinomycin	DGPROT01
FEED (RAW MATERIALS, COMPOUND FEEDINGSTUFFS, PETFOOD, PREMIX AND FORAGES) <i>(continuation)</i>	Histamine, cadaverine, putrescine, tyramine, spermine, spermidine, serotonin, tryptamine	DGPROT01
	<u>Composition and content in saturated and unsaturated fatty acids</u> : butyric acid, caproic acid, caprylic acid, capric acid, caproic acid, lauric acid, isomyristic acid, myristic acid, myristoleic acid, 13-methyl tetradecanoic acid, 12-methyl tetradecanoic acid, pentadecanoic acid, isopalmitic acid, palmitic acid, palmitoleic acid, isomargaric acid, 14-methyl hexadecanoic acid, margaric acid, heptadecenoic acid, isostearic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, stearidonic acid, arachidic acid, gadoleic acid, eicosadienoic acid, acid eicosatrienoic, acid arachidonic, acid eicosapentaenoic, acid behenic, acid erucic acid, docosadienoic acid, docosatetraenoic acid, clupanodonic acid, docosahexaenoic acid, lignoceric acid, nervonic acid, other fatty acids	DGPROT01

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Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
	<p><u>Microscopic composition</u>: cereals, issues and identified cereals by-products, pulses, identified oilseeds, identified flours, other components, mineral compounds.</p> <p><u>Search of animal flour</u>: fragments of bones, fragments of fish bones and scales</p>	DGPROT01
FOOD PRODUCTS (HUMAN FOOD)	Dry matter, Water - Karl Fisher method, ash content, protein content, Lipids, Carbohydrates, Glucose, Fructose, Sucrose, Lactose, Maltose, galactose, Starch, Total fibers - Insoluble fibers - Soluble fibers - Acesulfame K, Peroxide index, Free fatty acids, water activity, pH, cholesterol, conventional mass per volume at 20°C, sum of mono and disaccharides, fructooligosaccharides FOS	DGPROT01
	<p><u>Vitamins</u>: Beta-carotene trans (beta), Beta-carotene (sum of isomers), Vitamin A, Vitamin D, Vitamin E - alpha tocopherol - beta tocopherol - delta tocopherol - gamma tocopherol, Vitamin B1, Vitamin B2, Vitamin PP, A pantothenic acid, Vitamin B6, Vitamin H, Vitamin B9, free Vitamin B9, Vitamin B12 Vitamin C, Inositol, Vitamin K1, total choline, free choline, L-carnitine, taurine</p>	DGPROT01
	Lysine, free lysine, methionine, free methionine, cystine, aspartic acid, threonine, serine, glutamic acid, proline, glycine, alanine, valine, isoleucine, leucine, tyrosine, phenylalanine, histidine, arginine, tryptophan, total taurine, free threonine, free tryptophan, sum of amino-acids	DGPROT01
	<p><u>Minerals</u>: Calcium, Chromium, Copper, Iron, Manganese, Magnesium, Phosphorus, Potassium, Selenium, Sodium, Zinc, Chlorides, Iodine, Fluorides, Sulfites, Nitrates, Titanium</p>	DGPROT01

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Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
FOOD PRODUCTS (HUMAN FOOD) (continuation)	<p><u>Composition and content in saturated and insaturated fatty acids</u>: butyric acid, caproic acid, caprylic acid, capric acid, caproic acid, lauric acid, isomyristic acid, myristic acid, myristoleic acid, 13-methyl tetradecanoic acid, 12-methyl tetradecanoic acid, pentadecanoic acid, isopalmitic acid, palmitic acid, palmitoleic acid +isomers isomargaric acid, 14-methyl hexadecanoic acid, margaric acid, heptadecenoic acid, isostearic acid, stearic acid, oleic acid, linoleic acid, rumenic acid, linolenic acid, steradonic acid, arachidic acid, gondoic acid, eicosadienoic acid, acid eicosatrienoic, acid arachidonic, acid eicosapentaenoic, acid behenic, acid erucic acid, docosadienoic acid, docosatetraenoic acid, clupanodonic acid, docosahexaenoic acid, lignoceric acid, nervonic acid, cetoleic acids, sum of fatty acids, sum of saturated fatty acids, sum of monounsaturated fatty acids (cis), sum of polyunsaturated fatty acids (cis), sum of trans fatty acids</p>	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
HUMAN FOOD: MEAT PRODUCTS AND EGG PRODUCTS	<p><u>BASIC ANALYSIS</u>: Humidity(Moisture), Free fatty content, Total fatty content, Ash content (raw and insoluble), Proteins, cholestérol, Acide L-lactique, Acide succinique, Acide D3</p> <p>hydroxybutyrique, water activity, pregelatinized starch, collagen (L hydroxyproline),(Soluble and total) sugars, Polyphosphates, pH,</p> <p><u>minerals</u>: Nitrites, Nitrates, Chlorides, Phosphorus, Sodium</p> <p><u>Fatty acids profile</u></p>	
HUMAN FOOD: Rusk, Coffee, Potato crisps, Infant cereals	Acrylamide	
HUMAN FOOD: turmeric, paprika, curry	<u>Illegal dyes</u> : Sudan Orange G, Sudan I, Sudan IV, Rhodamine B	
HUMAN FOOD: fishery products, honey, meat products	<p><u>Veterinary drugs</u>:</p> <p>Chloramphénicol : Chloramphénicol</p> <p>Nitrofuranes : 3-amino-5-morpholinomethyl-1,3-oxazolidin-2-one (AMOZ), 3-amino-2-oxazolidinone (AOZ), 1-aminohydantoine (AHD), semicarbazide (SEM), 3,5 dinitrosalicylic acid hydrazide (DNSAH).</p> <p>Tétracyclines: Tétracyclines, Oxytétracyclines.</p> <p>Aminosides : Streptomycin, Dihydrostreptomycin.</p> <p>Sulfamides : Sulfadimidine, Sulfamethoxazole, Sulfathiazole.</p> <p>Quinolones & fluoroquinolones : Acide nalidixique, Ciprofloxacine, Danofloxacine, Enrofloxacine, Norfloxacine, Ofloxacine.</p>	
FOOD PRODUCT (HUMAN FOOD AND ANIMAL FEED)	<p><u>Mycotoxins</u>: Aflatoxins: B1, B2, G1, G2, M1, M2, sum of aflatoxins, atropine, Deoxynivalenol,3-glycoside-DON, 3-acetyl-DON, 15-acetyl-DON, sum of acetylated derivatives DON, Nivalenol, Zearalenone, Fumonisins: B1, B2, sum of Fumonisins, Ochratoxin A, T2, HT2, T2 + HT2 Patulin, scopolamine</p>	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
	<p><u>Multiresidues of pesticides and pesticides:</u> 2,4 D, Acetamipride, Acrinathrine, Amitraz, Sum of amitraz, AMPA, Azoxystrobine, Benalaxyl, Bifenthrin, Boscalid, Bromopropylate, Buprofezine, Pyperonil butoxide (PBO), Carbendazime, Carbofuran, Chlorates, Cis-chlordane, Trans -chlordane, Chlorfenvinphos, Chlormequat, Chlorprophame, Chlorpyriphos-ethyl, Chlorpyripos-methyl, Coumaphos, Cyazofamide, Cyflufenamide, Cyhalothrine-lambda, Cymiazole, Cypermethrine, Cyproconazole, Cyprodinil, DDT, Deltamethrine, Diazinon, Dieldrine, Diethyl toluamide, Difenoconazole, Diflufenican, Dimethoate, Dimetomorphe, Diphenylamine, Diquat, Dithiocarbamates, DMF, DMPF, Endosulfan alpha, Endosulfan beta, Endosulfan sulfate, Endosulfan (sum of the isomers), Etephon, Ethoxyquin, Etoxazole, Famoxadone, Fenamidone, Fenbuconazole, Fenhexamide, Fenitrothion, Fenvalerate, Fipronil, Fipronil sulfone, Sum of fipronil + fipronil sulfone, Fluazifop, Fludioxonil, Flumethrine, Flusilazole, Flutolanil, Fluvalinate-tau, Fosetyl aluminium, Ammonium glufosinate, Glyphosate, Heptachlore, Heptachlore epoxyde cis, Heptachlore epoxyde trans, Hexachlorobenzene, Hexythiazox, Maleic Hydrazide, Imazalil, Imidacloprid, Iprodione, Iprovalicarb, Kresoxim-methyl, Lindane, Linuron, Malathion, Mandipromamide, Mepanipyrim, Mepiquat, Metalaxil, Metalaxil-M, Metoxychlor, Metoxuron, Metrafenone, Myclobutanil, Nicotine, Omethoate, Orthophenylphenol, Oxadixyl, Paraquat, Parathion ethyl, Parathion methyl, Penconazole, Pendimetaline, Perchlorates, Permethrine, Phosalone, Phosmet, Procymidone, Profenophos, Propyconazole, Propyzamide, Proquinazide, Prosulfocarbe, Pyraclostrobin, Pyrimethanil, Pyrimicarb, Pyrimiphos-methyl, Pyroproxifen, Spiroxamine, Tebuconazole, Tebufenozide, Tebufenpyrade, Tetradifon, Thiabendazole, Thiachlopride, Thimetoxam, Triadimenol, Triazophos, Vinclozoline, bromides, Nitrates, captan, folpel, dithianon</p>	DGPROT01
FOOD PRODUCT (HUMAN FOOD AND ANIMAL FEED) (<i>continuation</i>)	<p><u>Metals:</u> Dry matter, Aluminum, Arsenic, Arsenic III, Arsenic V, Inorganic Arsenic, AsB, Cadmium, Cobalt, Chromium, DMA, Tin, Fluorine, Iodine, Methylmercury, Mercury, MMA, Molybdenum, Nickel, Lead, Selenium, Iron, Copper, Manganese, TBT, Zinc, Total sulfur, Titanium</p>	DGPROT01
	<p><u>PAH:</u> 5-methyl-chrysene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,e)pyrene, Dibenzo(ah)anthracene, Dibenzo(a,h)pyrene, Dibenzo(a,i)pyrene, Dibenzo(a,l)pyrene, Fluoranthene, Indeno(123cd)-pyrene, Phenantrene, Pyrene</p> <p><u>PCB:</u> PCB 28, PCB 52, PCB 77, PCB 81, PCB 101, PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 138, PCB 153, PCB 156, PCB 157, PCB 167, PCB 169, PCB 180, PCB 189.</p> <p><u>Dioxins:</u> 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD</p> <p><u>Furans:</u> 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF</p>	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
FAT AND OILS	Peroxide index, Accelerated test of oxability, total tocopherols, (alpha, beta, gamma, delta) tocopherol, total tocotrienols, (alpha, beta, gamma, delta) tocotrienol, vitamin A, moisture content and volatile matter, Moisture content, Impurities, Free fatty acids, Palmitic acidity, Iodine index, Saponification index, Unsaponifiable matter, Butyric acid, Para-anisidine index, Estimation of adulteration, Total sterols, Polar compounds, UV spectrophotometric analysis (k 232, k 270, delta k), antioxidants (BHA, BHT), Iron, Copper, Lead, Nickel, Hexane, Triglycerides polymers, Phosphorus, Lovibond colour (red, yellow, blue), Melting point, Solid content (R.M.N.), Erythrodiol + Uvaole, Stigmastadiene, Delta ECN 42, benzo(a)pyrene, Halogenated solvent content, Mineral oil content, Alkalinity, hexanal, Fat content, Refractive index at 20 °C, Rancimat (98 °C)	DGPROT01
FAT AND OILS (<i>continuation</i>)	<u>Composition and content in saturated and insaturated fatty acid,s:</u> butyric acid, caproic acid, caprylic acid, capric acid, caproleic acid, lauric acid, isomyristic acid, myristic acid, myristoleic acid, 13-methyl tetradecanoic acid, 12-methyl tetradecanoic acid, pentadecanoic acid, isopalmitic acid, palmitic acid, palmitoleic acid, isomargaric acid, 14-methyl hexadecanoic acid, margaric acid, heptadecenoic acid, isostearic acid, stearic acid, oleic acid, linoleic acid, rumenic acid, linolenic acid, linolenic (alpha) acid, linolenic acid (gamma) , linolenic acid (omega 3) , linolenic acid (omega 6) , stearidonic acid, stearidonic acid (omega 3) , arachidic acid, gondoic acid, eicosadienoic acid, eicosatrienoic acid, arachidonic acid, cis-5 8 11 14 17-eicosatetraenoic acid (omega 6) , eicosapentaenoic EPA acid, 5 8 11 14 17-eicosapentaenoic, acid, behenic acid (omega 3), erucic acid, docosadienoic acid, docosatetraenoic acid, cis-7,10,13,16-docosatetraenoic acid (omega6) , cuplanodonic acid, cis-4,7,10,13,16-docosapentaenoic acid (omega 6), docosapentaenoic cuplanodonic (omega 3) acid, docosahexaenoic dha acid, 4 7 10 13 16 19-docosahexaenoic acid, lignoceric acid, nervonic acid, trans octadecenoic (t9 + t11) acid, trans-octadecadienoic (tt + tc) acid, trans-octadecatrienoic (cctt + ctc + cct + tct + ttt), other fatty acids	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
FAT AND OILS (<i>continuation</i>)	<u>Composition and content of sterols</u> : Cholesterol, Cholestanol, Brassicasterol, Campesterol, Stigmasterol, Delta 7 - Campesterol, Beta- Sitosterol, Delta 5 – Avenasterol, Delta 7 - Stigmasterol, Delta 7 - Avenasterol, Other Sterols, Phytosterols	DGPROT01
	<u>Composition and content by triglyceride</u> : LLG, LLL, LLLn, LLnLn, LLO, LOL, LOO, OLL, OLL + OOLn + PoOL, OLLn, OLnLn, OLnO, OOL, OOL + LnPP, OOL + PoOO + SLL, OOLn, OOLn + PoLL, OOO, OOO + OLGa, OOO + PoPP + SOL, PLL, PLL + PoPoO, PLLn, PLnL, PLnLn, PLnO, PLO, PLP, POL, POL + PoOP, POL + PPoO, POLn, POLn + PPoPo + PPOL, POO, PoO + SOL, PoOP, PoOP + SPoL + SOLn + SPoPo + PLP, PoOO + StLL, PoOO, POP, POS, POS + SLS, PPL, PPO, PPP, PPS, PPSt, PSL, PSL + PPO, PSO, PSS, PStL, PStO, PStSt, SAO, SLL, SLL + PLO, SLO, SOL, SOL + POO, SOO, SOS, SSL + PSO, SSO, SSS, StLL, StLL + POL, StOL, StOL + POO, StOO, StPoO, StPL + PPO, StStO, StStSt, Other triglycerides <u>Composition and content by molecular weight</u> : C24 + C25, C26 + C27, C28 + C29, C30 + C31, C32 + C33, C34 + C35, C36 + C37, C38 + C39, C40 + C41, C42 + C43, C44 + C45, C46 + C47, C48 + C49, C50 + C51, C52 + C53, C54 + C55, C48, C50, C52, C54, C56, Other triglycerides	DGPROT01
	<u>Pesticides and multiresidues of pesticides</u> : 2,4 D, Azoxystrobine, Bifenthrin, Chlorpyriphos-Ethyl, Chlorpyriphos-Methyl, Cyhalothrine-Lambda, Cypermethrin, DDT, Deltamethrine, Endosulfan Alpha, Endosulfan Beta, Endosulfan Sulfate, Endosulfan (sum of the isomers), Fenitrothion, Hexachlorobenzene, Lindane, Malathion, Metalaxil, Metalaxil-M, Parathion Methyl, Pyperonil Butoxide (PBO), Pyrimicarbe, Pyrimiphos-Methyl, Pyproxifen, Spiroxamine	DGPROT01
	<u>PAH</u> : 5-methyl-chrysene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, dibenzo(a,e)pyrene, Dibenzo(ah)anthracene, dibenzo(a,h)pyrene, dibenzo(a,i)pyrene, dibenzo(a,l)pyrene, Fluoranthene, Indeno(123cd)-pyrene, phenantrene, pyrene <u>PCB</u> : PCB 28, PCB 52, PCB 77, PCB 81, PCB 101, PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 138, PCB 153, PCB 156, PCB 157, PCB 167, PCB 169, PCB 180, PCB 189. <u>Dioxins</u> : 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD. <u>Furans</u> : 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF.	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
HONEY	Moisture, pH, Free Acidity, Combined Acidity, Conductivity at 20°C, HMF, Diastasic Activity, Pfund Index, Fructose, Glucose, Sucrose, Maltose, Melezitose, Erlose, Turanose, Trehalose, Proline, Ethanol, Glycerol, Citric acid, Pollen quantitative analysis, 13C proteins, 13C on the total honey, sugars C4, sodium, potassium, calcium, phosphorus, magnesium, iron, zinc, manganese, lead, chromium, copper	DGPROT01
	Identification and presence: main pollens, accompanying pollen, significant isolated pollen and rare isolated pollens Identification of floral origin and geographical origin	DGPROT01
	Odour, taste, aroma	DGPROT01
	<u>Pesticides and multiresidues of pesticides:</u> Acrinathrin, Amitraz, Bifenthrin, Boscalid, Bromopropylate, Pyperonil Butoxide (PBO), Carbendazim, Chlorfenvinphos, Chlorpyrifos-ethyl, Coumaphos, Cyhalothrin-lambda, Cymiazole, Cypermethrin, Deltamethrin, Diethyl toluamide, Flumethrin, Fluvalinate-tau, Imidoclopride, Malathion, Metalaxil, Metalaxyl-M Permethrin, Tetradifon, Thiocloprid, Thiametoxam, AMPA, Glyphosate	DGPROT01
FRUIT JUICES AND BEVERAGES WITHOUT ALCOHOL	Refractometric Dry Extract, Density, Total Dry Residue, Sugar Free Dry Extract, pH, Titrable Acidity, Ashes, total proteins, total fats, total carbohydrates, dry matter, total sugars, soluble solids, relative density at 20°C, Sodium, Potassium, Calcium, Copper, Magnesium, Iron, Total Phosphorus, Glucose, Fructose, Sucrose, Maltose, glucose/fructose ratio, percentage of sucrose in sugar, Sorbitol, Citric Acid, Lactic Acid, L-Malic Acid, Total D-Isocitric Acid, Fumaric acid, Tartaric Acid, HMF, Ethanol, Essential Oils, Formol Index, Vitamin C, Ascorbic Acid, Chlorides, Nitrates, Phosphates, Total Carotenoids, Water Soluble Pectins, Sorbic Acid, Benzoic Acid, Caffeine, Taurine, Carbon Dioxide, Acesulfame K, Turbidity, Optical Density (420nm et 520nm), L*, a*, b*	DGPROT01
WINES, FORTIFIED WINES, PORT WINES, MUST AND GRAPE JUICE, WINE-BASED APERITIF	Density, Alcoholic Strength, Potential Alcoholic Strength, Natural or Potential Alcoholic Strength, BRIX Value, Refractive Index, Densitometric Total Dry Extract, pH, Total Acidity, Corrected Volatile Acidity, Total Sugars, Reducing Substances, Glucose, Fructose, Glucose+Fructose, sucrose, Total Sulfur Dioxide, Free Sulfur Dioxide, Optical Density (280, 420, 520, 620 nm), Folin Index, CO ₂ , Turbidity, Saturation Temperature, Overpressure, Nitrogen (Ammoniacal, Alpha-Amino, Assimilable, Total), Chromatic Values According to CIELAB (L*, a*, b*), ash alkalinity, HMF, tartaric stabilization <u>Relative composition of anthocyanins :</u> Delphinidol-3-glucoside, Cyanidol-3-glucoside, Petunidol-3-glucoside, Peonidol-3-glucoside, Malvidol-3-glucoside, Peonidol-3-acétylglycoside, Malvidol-3-acétylglycoside, Peonidol-3-coumarylglycoside, Malvidol-3-coumarylglycoside,	DGPROT01
	Chlorides, Sulfates, Iron, Copper, Potassium, Calcium, Magnesium, Sodium, Lead, Zinc, Ash content, Manganese, total phosphorus, fluorides	DGPROT01

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AGRI-FOOD/MISCELLANEOUS FOODSTUFFS – CEREALS PRODUCTS – FEED – FAT AND OILS - BEVERAGES AND SWEET AND SWEETENED PRODUCTS /PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
WINES, FORTIFIED WINES, PORT WINES, MUST AND GRAPE JUICE, WINE-BASED APERITIF	<u>Volatile compounds:</u> <u>Alcohols:</u> Methanol, Butanol-2, Propanol, Methyl-2-propanol-1, Butanol-1, Methyl-2-butanol, Methyl-3- butanol, Isopentanol, Hexanol, Cis-hexenol, Glycerol, phenyl-2-ethanol <u>Esters:</u> ethyl lactate, ethyl butyrate, ethyl acetate, ethyl carbamate <u>Organic acids:</u> malic acid (L and total), lactic acid (L and total), tartaric acid, gluconic acid, acetic acid, citric acid, shikimic acid <u>Other organic compounds:</u> Ethanal	DGPROT01
	<u>Preservative:</u> ascorbic acid, sorbic acid	DGPROT01
WINES	<u>Compounds extracted from wood:</u> gallic acid, HydroxyMethylFurfural, Furfural, vanillic acid, Vanilline, Syringaldehyde	DGPROT01
WINES, FORTIFIED WINES	<u>Pesticides and multiresidues of pesticides:</u> Acrinathrin, Azoxystrobin, Benalaxyl, Boscalid, Buprofezin, Carbendazim, Chlorpyrifos-ethyl, Chlorpyrifos-methyl, Cyazofamid, Cyflufenamid, Cyhalothrin-lambda, Cyproconazole, Cyprodinil, Dimetomorphe, Etoxazole, Fenamidone, Fenbuconazole, Fenhexamide, Fenitrothion, Fludioxonil, Flusilazole, Fosetyl aluminium, Hexythiazox, Iprodione, Iprovalicarbe, Kresoxim-methyl, Mandipropamid, Mepanipyrim, Metalaxil, Metalaxil-M, Metrafenone, Myclobutanil, Oxadixyl, Penconazole, Permethrin, Procymidone, Proquinazid, Pyraclostrobin, Pyrimethanil, Spiroxamine, Tebuconazole, Tebufenozide, Tebufenpyrad, Triadimenol, Vinclozolin.	DGPROT01
	<u>Ochratoxin</u> <u>Amines:</u> Histamine, Tyramine, Cadaverine, Phenylethylamine, Diamino-1,4 butane (Putrescine) <u>Acids:</u> Benzoic Acid, Sorbic Acid, Salicylic Acid, metatartaric acid <u>Other organic compounds:</u> Ethyl Carbamate, Propanediol-2 (Mono-Propylene Glycol), Butanol-2, 4-Ethylphenol, 4-Ethylgaiacol, Mono-Ethylene Glycol, Diethylene Glycol, Geosmin <u>Other non-organic compounds:</u> Cadmium, Aluminum, Arsenic, Selenium, Zinc, Lead, Copper <u>Halooanisoles:</u> 2,4,6-Trichloroanisole, 2,3,4,6-Tetrachloroanisole, Pentachloroanisole, 2,4,6-Tribromoanisole <u>Halophenols:</u> 2,4,6-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, Pentachlorophenol, 2,4,6-Tribromophenol <u>Phthalates:</u> Diethyl Phthalate, Di-Butyl Phthalate, Butyl Benzyl Phthalate, Di-Methyl Phthalate, Di-2-Ethyl-Hexyl Phthalate, Di-Isononyl Phthalate, Di-Isobutyl Phthalate, Di-N-Octyl Phthalate, Di-Isodecyl Phthalate	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
SPIRITS , ALCOHOLS (NEUTRAL ALCOHOLS, DEHYDRATED ALCOHOLS, CRUDE ALCOHOL, DENATURED NEUTRAL ALCOHOL) AND BEER	Real Alcoholic Strength, Raw Alcoholic Strength, Density At 20°C, Dry Extract, Total Sugars, Glucose + Fructose + Sucrose, pH, pHe, Total Acidity, Fixed Acidity, Volatile Acidity, Optical Density (220, 230, 240, 270, 280, 420, 430, 445, 520, 530, 620 nm and variable), Turbidity, Brix, Refractive Index, Water Content by Karl Fisher, Permanganate Test, Carbon13, Oxygen 18, Carbon 14, Sulfur Dioxide, Hazen coloration	DGPROT01
	Lead, Calcium, Copper, Iron, Potassium, Sodium, Zinc, Magnesium, Sulfates, Phosphorus, Chlorides, Electrical conductivity, Cadmium, Aluminium, Arsenic, Selenium, Tin, Mercury	DGPROT01
	<u>Volatile compounds:</u> <u>Alcohols:</u> Ethanol, Methanol, Propene-2-ol-1, Butanol-2, Propanol, isobutanol, Butanol-1, Methyl-2 butanol, Methyl-3 butanol, Methylsbutanol, isopentanol, Hexanol, cis-3-hexanol, Phenyl-2-ethanol, Methyl-2-Propanol-1, ter-butanol, isopropyl alcohol <u>Esters:</u> Ethyl acetate, ethyl lactate, ethyl butyrate, ethyl caprylate, ethyl caprate, diethyle succinate, ethyl laurate, ethyl palmitate, ethyl formiate, isoamyle acetate, ethyl caproate, ethyl myristate, ethyl carbamate, sum of des esters <u>Organic acids:</u> cyanhydric acid, glycyrrhizic acid <u>Other organic compounds:</u> Acetaldehyde, Acetal, Isobutanal, Ethyl methyl cetone, Acetoin, total aldehydes, sum of volatile compounds, Anethole, Chalcones, total polyphenols, Thujones, 1,1,6-trimethyl-1,2-dihydronaphtalene (TDN)	
	<u>Compounds extracted from wood:</u> gallic acid, HydroxyMethylFurfural, Furfural, 5-methyl furfural, vanillic acid, syringic acid, Vanilline, Syringaldehyde, Scopoetine, Coniferaldehyde, Sinapaldehyde, ellagic acid	
	<u>Phthalates:</u> Diethyl Phthalate, Di-Butyl Phthalate, Butyl Benzyl Phthalate, Di-Methyl Phthalate, Di-2-Ethyl-Hexyl Phthalate, Di-Isononyl Phthalate, Di-Isobutyl Phthalate, Di-N-Octyl Phthalate, Di-Isodecyl Phthalate <u>Other contaminants:</u> dibutylsebacate, bis(2-ethylhexyl)adipate N-NITROSODIMETHYLAMINE	
FRENCH CIDERS, PERRY & POMMEAUX	Total Sulfur Dioxide, Free Sulfur Dioxide, Ethanal, EBC Colour At 430 nm, Density At 20°C, Alcoholic Strength, Carbon Dioxide, Overpressure, Total Sugars, Glucose + Fructose, Total Acidity, Volatile Acidity, pH, Turbidity, Iron, Sugar Free Dry Extract, Total Dry Extract, Folin Index, Ashes, Methanol, Acetal, Total Aldehydes, L-Malic Acid, L-Lactic Acid, Copper, Lead	DGPROT01
OILSEEDS	Impurities content, Moisture and volatile matter content, Moisture content, Oil content, Oil Acidity, Erucic Acid, Oleic Acid, Linoleic Acid, Linolenic Acid, Glucosinolates	DGPROT01
WOOD	<u>Haloanisoles:</u> 2,4,6-Tribromoanisole, 2,4,6-Trichloroanisole, 2,3,4,6-Tetrachloroanisole, Pentachloroanisole <u>Halophenols:</u> 2,4,6-Tribromophenol, 2,4,6-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, Pentachlorophenol	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
VINEGAR	Density at 20°C, Total Acidity, Fixed Acidity, Volatile Acidity, Residual Alcohol Content, Total Dry Extract, Ashes, Fructose (Reducing Sugars), Total Sulfur Dioxide, Free Sulfur Dioxide, Tartaric acid, Glycerol	DGPROT01
	Chlorides, sulfates, Copper, zinc, Iron	
	<u>Volatile compounds</u> : Acetoin, Ethyl Acetate, Methanol, Sum of Higher Alcohols	
MILK POWDER	Melamine, Cyanuric acid	DGPROT01

AGRI-FOOD/MISCELLANEOUS FOODSTUFFS /MICROBIOLOGICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
CHOPPED MEAT	Mesophilic flora at 30 °C, <i>Escherichia coli</i> , Enterobacteria, Thermotolerant Coliforms, Coliforms at 30 °C, <i>Bacillus cereus</i> , <i>Staphylococcus aureus</i> , <i>Clostridium perfringens</i> , yeasts, moulds, yeasts + moulds, <i>Salmonella</i> , <i>Listeria monocytogenes</i> , <i>Escherichia coli</i> O157, Campylobacter	DGPROT01
SMOKED SALMON	<i>Listeria spp</i> , <i>Listeria monocytogenes</i>	DGPROT01
FRUITS JUICE , STEWED FRUIT	Yeasts, moulds, yeasts + moulds, total flora, <i>Alicyclobacillus</i>	DGPROT01
WINES	<i>Brettanomyces</i> , lactic bacteria, Acetic bacteria, yeasts, molds	DGPROT01
FRESH OR FROZEN STRAWBERRIES VEGETABLES	Norovirus GI, Norovirus GII, Hepatitis A virus	DGPROT01
FLOURS	Germes totaux, Coliformes totaux, Yeasts, moulds	DGPROT01
MILK PRODUCTS	Mesophilic flora at 30 °C, <i>Escherichia coli</i> , Enterobacteria, Thermotolerant Coliforms, Coliforms at 30 °C, <i>Bacillus cereus</i> , <i>Staphylococcus aureus</i> , <i>Clostridium perfringens</i> , <i>Listeria</i> , <i>monocytogenes</i> , <i>Cronobacter spp</i> , <i>Pseudomonas spp</i> , Sulfite-reducing anaerobe bacteria, Lactic bacteria	DGPROT01

AGRI-FOOD/ALLERGENS /IMMUNOLOGY and PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
WINES	<u>Allergens</u> : ovalbumin, casein, lysozyme	DGPROT01
CEREALS PRODUCTS	<u>Allergens</u> : gluten, egg, ovalbumine, nuts, soya	DGPROT01
MEAT PRODUCTS	<u>Allergens</u> : soya	DGPROT01
FRUITS AND VEGETABLES	<u>Allergens</u> : sulphites	DGPROT01

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AGRI-FOOD/ALLERGENS /IMMUNOLOGY and PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
SWEET AND SWEETENED PRODUCTS	Allergens : nuts	DGPROT01
ALIMENTS DIETETIC FOOD, DIET FOOD, SPECIAL FEEDING	Allergens : gluten, milk, beta-lactoglobulin, casein	DGPROT01
INDUSTRIAL PROCESS WATER	Allergens : egg protein, ovalbumine, milk protein, beta-lactoglobulin, casein	DGPROT01
SEA PRODUCTS	Allergens : histamine	DGPROT01

AGRI-FOOD/MISCELLANEOUS FOODSTUFFS /SENSORY ANALYSES

Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
OLIVE OILS	<u>Intensity of perceived negative attributes (defects):</u> Fusty / Muddy Sediment, Musty - Humid - Earthy, Winey - Vinegary - Acid - Sour, Frostbitten Olives, Rancid, Intensity Of Perceived Negative Attributes (Defect) Predominantly Perceived <u>Intensity of perceived positive attributes:</u> Fruity, Bitter, Pungent	DGPROT01

FIELD OF ACTIVITY: VEGETABLE PRODUCTS

CHEMICAL AND BIOLOGICAL PRODUCTS / BIO-ACTIVE PRODUCTS / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Caracteristics/Measurand	Organization protocol
ESSENTIAL OILS	<u>Multiresidues of pesticides:</u> Atrazine, Azoxystrobin, Bendiocarb, Biphenyl, Bromopropylate, Buprofezine, Carbaryl, Chlorpyrifos-ethyl, Chlorpyrifos-methyl, Cypermethrin, Cyprodinil, DDT, Diazinon, Dicofol, Endosulfan alpha, Endosulfan beta, Ethion, Ethoprophos, Fenpropathrine, Flutriafol, HCB, Hexachlorobenzene, HCH alpha, HCH beta, HCH delta, Hexythiazox, Imazalil, Malathion, Metalaxil-M, Methidathion, Orthophenylphenol, Oxadiazon, Phosalone, Phosmet, Procholaze, Procymidone, Profenophos, Propargite, Pyraclostrobin, Pyrimethanil, Quintozene, Thiabendazole, Tebuconazole, Tetraconazole, Trifloxystrobin, Trifluralin,	DGPROT01
	Specific gravity at 20°C, Specific gravity at 25°C, Refractive index at 20°C, Optical rotation at 20°C, Flash point, Peroxide value, Acid index, C-D value	DGPROT01
	Citropten, Bergapten, Bergamottin, Byacangelicol, Epoxybergamottin, Isopimpinellin, Oxypeucedanin, Xanthotoxin	DGPROT01

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CHEMICAL AND BIOLOGICAL PRODUCTS / BIO-ACTIVE PRODUCTS / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
	Linalol, Lavandulol, Alpha-terpineol, Terpinene-4-ol, Linalyl acetate, Bornyl acetate, Neryle acetate, Geranyle acetate, Alpha-pinene, Beta-pinene, Camphene, Decanal, Fenchone, Geranial, Limonene, néral, 1,8-cineol, Octanal, Sabinene, Alpha thuyone, Beta thujone, Valencene, Camphor, 3-octanone, 3-octanol, Menthone, Isomenthone, Menthol, Neomenthol, Menthofuran, Pulegone, Menthyl acetate, Gamma-terpinene, P-cymene, Delta-3 carene, Myrcene, Beta phellandrene, Terpinolene, Beta-caryophyllene, Alpha trans bergamoten, Trans-sabinene hydrate, Cinnamyl alcohol, Cinnamaldehyde, Eugenol, Beta bisabolen	
	R-(-)-linalool, S-(+)-linalool, R-(-)-linalyl acetate, S-(+)-linalyl acetate, (4R)-(+)-terpinen-4-ol, (4S)-(-)-terpinen-4-ol	DGPROT01
FLAVOURINGS AND FLAVOUR RAW MATERIALS	Specific gravity at 20°C, Specific gravity at 25°C, pH, Refractive index at 20°C, Melting point, Flash point, Acid index, Moisture content, Flavour loading, Waste vacuum oven drying	DGPROT01
	Vanillic acid, P-Hydroxybenzoic acid, P-hydroxybenzoic aldehyde, Vanillin, Anisaldehyde	DGPROT01

FIELD OF ACTIVITY: AGRONOMY-PLANTS

AGRI-FOOD / QUALITY OF AGRICULTURAL SOILS –FERTILIZERS / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
SOILS	Water content on a mass basis, Carbonate, Active lime, pH H ₂ O, pH KCl, P ₂ O ₅ , free K ₂ O, free CaO, free MgO, free Na ₂ O, organic carbon, Total Nitrogen, Cationic exchange capacity, nitric nitrogen, Ammoniacal Nitrogen, Conductivity at 25°C, Nitrogen mineralization potential, Carbon mineralization potential	DGPROT01
	Particle size: Clay, fine silt, coarse silt, fine sands, coarse sand	DGPROT01
	Boron, Copper, Iron, Manganese, Zinc, Cadmium, Chromium, Nickel, Mercury, Lead, Arsenic	DGPROT01
MINERAL FERTILIZERS	Magnesium, Calcium, Neutralizing value, pH, Solubility carbonic, Carbonate, Ammoniacal Nitrogen, Nitric Nitrogen, Ureic Nitrogen, Total Nitrogen, Nitrogen Solubility, Moisture content / Dry matter content, Phosphorus, Potassium, Sulfur, sulfates, Combustibles components, Molybdenum, Sodium, Chlorides, Density, Biuret, Fluorine	DGPROT01

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AGRI-FOOD / QUALITY OF AGRICULTURAL SOILS –FERTILIZERS / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
	Granularity	DGPROT01
	Boron, copper, iron, manganese, zinc, cadmium, chromium, nickel, mercury, lead, arsenic, cobalt	DGPROT01
ORGANIC FERTILIZERS	Compacted density, Dry matter, Organic Matter, pH, Conductivity at 25°C, Total Porosity, Water Volume, Air Volume, Retraction value, Dry visible density, Total Nitrogen, Ammoniacal Nitrogen, Nitric Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Chlorides, Organic carbon, Sodium, Nitric Nitrogen mineralized at 18 days, Carbon mineralized at 18 days <u>Organic matter Stability</u> : Soluble organic components, Hemicelluloses, Lignines and cutines, Cellulosic portion, Crude fiber, Carbon mineralized at 3 days, BSI index, Tr index, Stability index of organic matter	DGPROT01
	Inert Analysis : synthetics, glass and metals, pebbles	DGPROT01
	Cobalt, Chromium, Copper, Nickel, Cadmium, Mercury, Lead, Zinc, Arsenic, Selenium, Iron, Manganese, Molybdenum	DGPROT01
COMPOST	Mercury, PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, Acenaphtene, Acenaphtylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo (ghi) perylene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, 2-methyl fluoranthene, 2-methyl naphthalene, Naphthalene, Phenanthrene, Pyrene	

AGRI-FOOD / QUALITY OF AGRICULTURAL SOILS –FERTILIZERS / MICROBIOLOGICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
ORGANIC FERTILIZERS	Escherichia coli, Intestinal Enterococci, Clostridium perfringens, thermotolérant Coliforms Staphylococcus aureus, Salmonella, Listeria monocytogenes	DGPROT01

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FIELD OF ACTIVITY: ENVIRONMENT

ENVIRONMENT / WATER QUALITY, SOLID MATRICES / PHYSICO-CHEMICAL ANALYSES		
Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
TREATED BATHING WATER	Conductivity, pH, Chlorides, Total organic carbon (TOC), Dissolved organic carbon (DOC), Oxidability with KMnO ₄ , Turbidity, Color, Free, total And Active Chlorine, REDOX Potential, Oxidability In An Alkaline Solution, Isocyanuric Acid	DGPROT01
	<u>Volatile Organohalogenated compounds</u> : Chloroforme, Bromoforme, Dibromomonochloromethane, Dichloromonobromomethane	DGPROT01
SEA WATER	pH, Conductivity at 25°C, Salinity	DGPROT01
TREATED SEA WATER	<u>Volatile Organohalogenated compounds</u> : Bromoforme, Bromodichloromethane, Chloroforme, Dibromodichloromethane	DGPROT01
DRINKING WATER FRESH WATER	Conductivity, pH, Complete alkalimetric titration (CAT), Calcium, Magnesium, Sodium, Potassium, Chlorides, Sulfates, Nitrates, Nitrites, Dissolved silica, Mineralized silica, Fluorides, Dry residue, Hardness, Ammonium, Orthophosphates, Total organic carbon (TOC), Dissolved organic carbon (DOC), Chemical oxygen demand (COD), Biochemical demand in oxygen (BDO ₅), Kjeldahl Nitrogen, Total phosphorus, Oxidability with KMnO ₄ , Turbidity, Color, Suspended solids, Bromates, Chlorites, Chlorates, Free, total and active chlorine, Stabilizing agent, Dissolved iron, Chlorophyll a, Free and total cyanides, dissolved salt, REDOX potential, Total nitrogen, Perchlorates, Isocyanuric acid, Dissolved oxygen, Bromides, carbon dioxide	DGPROT01
	Pheopigment index, Phenol index, Hydrocarbons index (volatile and total), AOX, Anionic tensioactives	DGPROT01
	Total iron, Copper, Zinc, Manganese, Aluminum, Boron, Arsenic, Barium, Beryllium, Cadmium, Total Chromium, Chromium VI, Cobalt, Lithium, Mercury, Molybdenum, Nickel, Selenium, Strontium, Lead, Tellurium, Thallium, Titanium, Uranium, Vanadium, Silver, Tin, Antimony, Bismuth, Gadolinium, Tungstene	DGPROT01

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ENVIRONMENT / WATER QUALITY, SOLID MATRICES / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER <i>(continuation)</i>	<ul style="list-style-type: none"> - <u>Organochlorine pesticides</u>: 2,4' DDD, 2,4' DDE, 2,4' DDT, 4,4' DDD, 4,4' DDE, 4,4' DDT, Total DDT, Alachlore, Aldrine, Chlordane alpha, Chlordane gamma, Dieldrine, Endosulfan alpha, endosulfan beta, endosulfan (sum of the isomeres), Endrine, HCH alpha, HCH beta, HCH delta, Heptachlore, Heptachlore époxyde, Heptachlore epoxyde cis, Heptachlore epoxyde trans, Isodrine, Lindane, Métazachlore, Métolachlore, Trifluraline, sum of Aldrine+dieldrine+endrine+isodrine - <u>Organophosphorous pesticides</u>: Azinphos-ethyl, Azinphos-methyl, Chlorfenvinfos, Chlormephos, Chlorpyriphos ethyl, Chlorpyriphos-methyl, Demethon-O, Diazinon, Dichlorvos, Dimethoate, Fenitrothion, Malathion, Ométhoate, Parathion-ethyl, Parathion-methyl, Pyrimiphos-methyl - <u>PCB</u>: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180. - <u>Chlorobenzenes</u>: Chlorobenzene, Dichlorobenzene (1,2) - (1,3) - (1,4), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, Pentachlorobenzene, Hexachlorobenzene, - <u>Chlorotoluenes</u>: 2-Chlorotoluene, 3-Chlorotoluene, 4-Chlorotoluene, - <u>Triazines</u>: Ametryn, Atrazine, Atrazine-2-hydroxy-desethyl, Bentazone, Cyanazine, Cybutryn, Deisopropylatrazine Deisopropyl-desethylatrazine, Desethylatrazine, Hydroxy-2-atrazine, hydroxysimazine, hydroxyterbutylazine, Metribuzine, Prometryne, Propazine, Sebutylazine, Simazine, terbumethon desethyl, Terbutryn, Terbutylazine, Terbutylazine-desethyl - <u>Substituted phenylureas</u>: Diuron, Ethidimuron, Isoproturon, Linuron, Metobromuron, metoxuron, Monolinuron, Monuron, Terbumeton - <u>PAH</u>: Acenaphtene, Acenaphtylene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)-perylene, Benzo(a)pyrene, Chrysene, Dibenzo(ah)anthracene, Fluoranthene, Fluorene, Indeno(123cd)-pyrene, Methyl(2)fluoranthene, Methyl(2)naphtalene, Naphtalene, Perylene, Phenanthrene, Pyrene, - <u>Herbicides</u>: AMPA, Aminotriazole, Cloromequat, diquat, Glufosinate, Glyphosate, mepiquat, paraquat - <u>BTX</u> Benzene, Ethylbenzene, Isopropylbenzene, Styrene, Toluene, Xylene (o) - (meta, para) - <u>Volatile Organohalogenated compounds</u>: 1,1,2,2-tetrachloroethane, 3-chloroprene (Allyl chloride), Bromochloromethane, Bromoforme, Bromomethane, Carbon tetrachloride, Chloroforme, Chloroprene, Dibromomonochloromethane, Dichloromonobromomethane, Dichloroethane (1,1) – (1,2), Dichloroethylene (1,1), Dichloroethylene (1,2) cis - trans, Dichloromethane, Fluorotrichloromethane, Hexachlorobutadiene, Hexachloroethane, Tetrachloroethylene, Trichloroethane (1,1,1) – (1,1,2), Trichloroethylene, Vinyl chloride - <u>Alkylphenols</u>: 4-n-nonylphenol 4-n-nonylphenol monoethoxylate, 4-nonylphenol diethoxylate, 4-nonylphenols, nonylphenols (sum of isomers), 4-n-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-(1,1,3,3-tetramethylbutyl)-phenol 	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER <i>(continuation)</i>	<ul style="list-style-type: none"> - PBDE: PBDE28, PBDE47, PBDE99, PBDE100, PBDE153, PBDE154, PBDE183, PBDE209 - Organotins: dibutyltin cation, monobutyltin cation, tributyltin cation, triphenyltin cation, dioctyltin cation, tetrabutyltin cation - Chloroanilines: 2-chloroaniline, 3,4-chloroaniline, 3-chloroaniline, 4-chloro-2-nitroaniline, 4-chloroaniline - Chlorophenols: 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, pentachlorophenol, 4-chloro-3-methyl phenol, Haloacetic acid: Chloroacetic acid, Dichloroacetic acid , Trichloroacetic acid , Monobromoacetic acid Epichlorhydrin Chloroalkanes C10-C13 Acrylamide - Nitroaromatics: 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2-nitrotoluene, Hexachlorocyclopentadiene, nitrobenzene - Perfluorinated compounds: perfluoro-n-octanoïque acid, perfluoro-n-octanesulfonique acid, perfluorodecanoïque acid, perfluorohexanesulfonic acid - Phtalates : Butyl Benzyl phtalate, Di (2-ethylhexyl)phtalate (DHP), Di-n-butyl phtalate, diethyl phtalate, dimethyl phtalate - Parabens : butylparaben, ethylparaben, methylparaben, propylparaben - ESA and OXA Métabolites: acetochlor ESA, acetochlor OXA, alachlor ESA, alachlor OXA, dimethachlore OXA, diméthamide ESA, flufenacet OXA, flufenacet ESA, metazachlor ESA, metazachlor OXA, metolachlor ESA, metolachlor OXA - Miscellaneous: Biphenyl, Tributylphosphate, Norflurazon, Bisphenol A, Chlortoluron, Methabenzthiazuron, Dibromomethane, Dibromomethane, Dibromoethane-1,2, Dichloropropane-1,2, Dichloropropene-1,3 Cis, Dichloropropene-1,3 Trans, Ethyl tertio butyl ether, methyl tertio butyl ether 	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER <i>(continuation)</i>	<u>Multipesticides test :</u> 2,4-D, 2,4-MCPA, Acetochlor, Aclonifen, Anthraquinone, Asulame, Azoxystrobine, Beflubutamide, Benzotriazole, Bifenox, Boscalid, Bromacile, Bromoxynil, Carbendazime, Carbofuran, Chlordecone, Chloridazone, Chlorprophame, Clethodim, Clomazone, Cyhalothrine-lambda, Cyperméthrine, Cyproconazole, Cyprodinil, Deltaméthrine, Dicamba, Dichlormide, Dichlorprop, Didemethylisoproturon, Difenconazole, Diflufenicanil, Dimetachlore, Dimethenamide, Dimethomorphe, Dinoterbe, Epoxiconazole, Ethofumésate, Fenarimol, Fenoxycarbe, Fenpropidine, Fipronil, Fipronil sulfone, Florasulam, Fludioxonil, Fluroxypyr, Flurochloridone, Flurtamone, Flusilazole, Foramsulfuron, Fosthiazate, Hexaconazole, Imazalil, Imazamox, Imidaclopride, Iodosulfuron-méthyl, Ioxynil, Iprodione, Isoxaflutole, Kresoxym methyl, Lenacile, Mecoprop (MCP), Mercaptodimethur, Mesosulfuron methyl, Mesotrione, Metaldehyde, Metamitrone, Metconazole, Methomyl, Metsulfuron methyl, Napropamide, Nicosulfuron, Oxadiazon, Oxadixyl, Pendimethaline, Piclorame, Piperonyl butoxyde, Pirimicarbe, Prochloraz, Procymidone, Propiconazole, Propyzamide, Prosulfocarbe, Prosulfuron, Pyrimethanil, Quinoxifene, Rimsulfuron, Sulcotrione, Tebuconazole, Tebutame, Tetraconazole, Thiabendazole, Thiaflumamide, Thiamethoxame, Thifensulfuron methyl, Tolytriazole, Triclocarban, Triclopyr, Trinexapac-ethyl	DGPROT01
DRINKING WATER FRESH WATER, WASTE WATER	<u>Multiresidues search of organic substances:</u> 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,3-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1-chloro-3-nitrobenzene, 1-(3,4-dichlorophenyl) urea, 1-(3,4-dichlorophenyl) -3-methyl-urea, 1,4-isopropylphenyl urea, 2,3,4,5-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,4-trichlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,3,6-trichlorobenzoic acid, 2,3-dichlorophenol, 2,4,5-T, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-D, 2,4 DB, 2,4' DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4-dichlorophenol, 2,4-dimethylaniline, 2,4-dinitrotoluene, 2,5-dichlorophenol, 2,6-dichlorophenol, 2,6-dinitrotoluene, 2,6-dichlorobenzamide, 2-chlorophenol, 2-phenylphenol, 3,4,5-trichlorophenol, 3,4-dichloroaniline, 3,4-dichlorophenol, 3,5-dichlorophenol, 3-chloroaniline, 3-chloro-4-methylaniline, 3-chlorophenol, 3-hydroxycarbofuran, 4-chlorophenol, 4-chloroaniline, 4-isopropylaniline, 4-nonylphenol, 4-octylphenol, 4-tert-butylphenol 4,6-Dinitro-2-methyl phenol, acenaphtene, acenaphtylene, acetochlor, acifluorfen, aclonifen, acrylamide,alachlor, aldicarb sulfone, aldicarb sulfoxide, Aldicarbe, allethrin, ametryne, Amidosulfuron, Aminotriazole, amitraze, AMPA, anthracene, anthraquinone, Aroclor 1242, Asulam, Atrazine, atrazine 2 hydroxy, Bromobenzene, 1,2,3-trichloropropane, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER, WASTE WATER <i>(continuation)</i>	<u>Multiresidues search of organic substances (continuation):</u> Atrazine-Desisopropyl 2 Hydroxy, Atrazine-Desethyl 2 Hydroxy, Atrazine-Desethyl-Desisopropyl, Atrazine-Desethyl-Desisopropyl 2 Hydroxy, Atrazine-Desethyl, Atrazine-Desisopropyl, Azaconazole, Azamethyphos, Azinphos Ethyl, Azinphos Methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benfluraline, Benfuracarb, Benoxacor, Benomyl, Bentazone, Benthocarb, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo (K) Fluoranthene, Bifenthrin, Biphenyl, Bitertanol, Bromacile, Bromadiolone, Bromophos Ethyl, Bromophos Methyl, Bromopropylate, Bromoxynil, Bromoxynil Octanoate, Bromuconazole, Bupirimate, Buprofezin, Piperonyl Butoxide, Butralin, Buturon, Captane, Carbamazepine, Carbaryl, Carbendazim, Carbetamide, Carbofuran, 3-Hydroxycarbofuran, Carbophenothion, Carbosulfan, Carfentrazone Ethyl, Chlorbromuron, Chlordecon, Chlorfenson, Chlorfenvinphos, Chlorfluazuron, Chloridazone, Chlormephos, Chlorophacinone, Chlorothalonil, Chloroxuron, Chlorpropham, Chlorpyriphos-Ethyl, Chlorpyriphos-Methyl, Chlorsulfuron, Chlorthiamide, Chlortoluron, Chrysene, Chrysene D12, Clodinafop-Propargyl Ester, Clofentezine, Clopyralid, Coumaphos, Coumatetralyl, Cyanazine, Cyfluthrin, Cyhalothrin-Lambda, Cymoxanil, Cypermethrin, Cyproconazole, Cyprodinil, Dazomet, DCPMU, DCPU, DEA, Deltamethrine, Demethon-S-Methyl Sulfone, Desmethrine, Diazinon, DIA, Diallate (Cis+Trans), Dibenzo(a,h)anthracene, Dicamba, Dichlofenthion, Dichlofluanide, Dichlofop Methyl, Dichlorbenil, Dichlorprop, Dichlorvos, Diclofenac, Diethofencarb, Difenoconazole, Diflubenzuron, Diflufenican, Dimefuron, Dimethenamid, Dimethoate, Dimetomorph, Dimetilan, Diniconazole, Dinocap, Dinosebe, Dinosebe Acetate, Dinoterbe, Disulfoton, Dithianon, Diuron, DNOC, Endosulfan alpha, EPTC, Epoxyconazole, Ethidimuron, Ethiofencarb, Ethoprophos, Ethion, Etrifos, Ethylene Thiourea, Ethylene Urea, Fenamidone, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorphos, Fenfuram, Fenitrothion, Fenoprop, Fenoxaprop Ethyl, Fenoxaprop-P-Ethyl, Fenoxycarb, Fenpropethrine, Fenpropidine, Fenpropimorphe, Fenthion, Fenuron, Fipronil, Flamprop Isopropyl, Flazasulfuron, Flonicamid, Fluazifop-P-Butyl, Fluazinam, Flucythrinate, Fludioxonil, Flufenoxuron, Fluochloridone, Fluometuron, Fluoranthene, Fluorene, Flupyrsulfuron Methyl Sodium, Fluquinconazole, Fluridone, Fluroxypyr, Fluroxypyr-1-Methylheptyl Ester, Flurprimidol, Flurtamone, Flusilazole, Flutriafol, Folpet, Fomesafen, Fonofos, Formasulfuron, Fosthizate, Furalaxyl, Furathiocarbe, Glyphosate, Haloxyfop, Haloxyfop-2-Ethoxyethyl, HCH Delta, Heptenophos, Hexachlorobenzene, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Hydroxy Simazine, Hydroxy Terbutylazine, Imazalil, Imazamethabenz Methyl, Imidaclopride, Indeno(1,2,3-Cd)Pyrene, Iodocarb, Iodofenphos, Iodosulfuron Methyl Sodium, Ioxynil, IPPMU, IPPU, Iprodione, Iprovalicarb, Isazophos, Isodrine, Isufenphos, Isoproturon, Isoxaben, Isoxaflutole, Kresoxim-Methyl, Lenacile, Lindane, Linuron, Lufenuron, Malathion, Mandipropamide, MCPA, MCPB, MCPP (Mecoprop), Mefenacet, Mefluidide, Mercaptodimethur, Mesosulfuron Methyl, Mesotrione, Metaciphos, Metalaxyl, Metaldehyde, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methamidophos, Methidathion, Methiocarbe, Methomyl, Methoxychlor, Methyl (1) Naphthalene, Methyl (2) Naphtalene, Metobromuron, Metolachlor, Metosulam, Metoxuron, Metrafenone, Metribuzine, Metsulfuron	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER, WASTE WATER <i>(continuation)</i>	<u>Multiresidues search of organic substances (continuation):</u> Methyl, Mevinphos, Molinate, Monocrotophos, Monolinuron, Monuron, Musk xylene, Myclobutanil, Naphthalene, Neburon, Nicosulfuron, Nitrofen, Norflurazon, Norflurazon Desmethyl, Octabromodiphenylether, Ofurace, Omethoate, Orbencarb, Orthophenylphenol, Oryzalin, Oxadiargyl, Oxadiazon, Oxadixyl, Oxamyl, Oxydemeton Methyl, Paclobutrazole, Parathion-Ethyl, Parathion Methyl, PCB 101, PCB 138, PCB 153, Penconazole, Pencycuron, Pendimethalin, Pentachloroaniline, Pentachlorobenzene, Pentachlorophenol, Phenanthrene, Phenthoate, Phenmedipham, Phorate, Phorate Sulfone, Phosalone, Phosphamidon, Phoxim, Phtalimide, Picloram, Picoxystrobine, Pinoxaden, Pirimicarb, Pretilachlore, Prochloraz, Procymidone, Profenofos, Promecarbe, Promethon, Promethryn, Propachlore, Propamocarbe, Propanolol, Propargite, Propaquizafop, Propazine, Propethamphos, Propiconazole, Propizamide, Propoxur, Propylene Thiourea, Prosulfuron, Prosulfocarbe, Prothioconazole, Pymetrozine, Pyraflufen Ethyl, Pyrazophos, Pyrene, Pyridaben, Pyridate, Pyrifenox, Pyrimethanil, Pyrimiphos-Ethyl, Pyrimiphos-Methyl, Pyriproxifen, Quinalphos, Quintozene, Quizalofop, Quizalofop Ethyl, Resmethrin, Rimsulfuron, Rotenone, Sebutylazine, Sebutylazine Desethyl, Siduron, Simazine, Simazine 2 Hydroxy, Spiroxamine, Sulcotrione, Sulfosulfuron, Sulfotep, Tau Fluvalinate, Tebuconazole, Tebuthiuron, Terbufos, Terbufos Sulfone, Tebutam, Tecnazene, Teflubenzuron, Temephos, Terbumeton, Terbumeton Desethyl, Terbuthryn, Terbutylazine, Terbutylazine Hydroxy, Terbutylazine 2 Hydroxy, Terbutylazine-Desethyl, Tetraconazole, Tetradifon, Tetrasul, Thiabendazole, Thiazafuron, Thifensulfuron Methyl, Thiobencarbe, Thiodicarb, Tolyfluand, Triadimefon, Triadimenol, Triasulfuron, Triazophos, Tribenuron Methyl, Tributylphosphate, Trichlopyr, Trichlorfon, Triflumuron, Trifluralin, Trinexapac Ethyl, Trinitrotoluene, Triticonazole, Vamidathion, Vinclozoline, Zoxamide, Acetamidrid, Flufenacet, Pirimiphos-methyl, Pirimiphos-ethyl, Triallate, ketoprofen, cyclophosphamide, diazepam, sulfamethazine, Naproxen, Paracetamol, Sulfamethoxazole, Bezafibrate, Metronidazole, Oxazepam, Norethindrone, Ibuprofen	DGPROT01
WASTE WATER	Conductivity, pH, Calcium, Magnesium, Sodium, Potassium, Chlorides, Sulfates, Nitrates, Nitrites, Dissolved silica, Mineralized silica, Fluorides, Dry residue, Ammonium, Orthophosphates, Total organic carbon (TOC), Dissolved organic carbon (DOC), Chemical oxygen demand (COD), Biochemical demand in oxygen (BDO ₅) Kjeldahl Nitrogen, Total phosphorus, Suspended solids, Dissolved salt, Total nitrogen, Total sulfur, Bromides, Complete alkalimetric titration, REDOX potential	DGPROT01
	Phenol index, Hydrocarbons index (volatile and total), AOX, Hexane extracted substances, Anionic tensioactives	DGPROT01
	Total iron, Copper, Zinc, Manganese, Aluminium, Boron, Arsenic, Barium, Beryllium, Cadmium, Total chromium, Chromium VI, Cobalt, Lithium, Mercury, Molybdenum, Nickel, Selenium, Strontium, Lead, Tellurium, Thallium, Titanium, Uranium, Vanadium, Silver, Tin, Total and free cyanides, Antimony, Zirconium	DGPROT01

ENVIRONMENT / WATER QUALITY, SOLID MATRICES / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
WASTE WATER <i>(continuation)</i>	<ul style="list-style-type: none"> - <u>Organochlorine pesticides</u>: 2,6-dichlorobenzamide, 2,4' DDD, 2,4' DDE, 2,4' DDT, 4,4' DDD, 4,4' DDE, 4,4' DDT, Total DDT, Alachlore, Aldrine, Chlordane alpha, Chlordane gamma, Dieldrine, Endosulfan alpha, endosulfan beta, endosulfan (sum of the isomeres), Endrine, HCH alpha, HCH beta, HCH delta, Heptachlore, Heptachlore époxyde, Heptachlore epoxyde cis, Heptachlore epoxyde trans, Isodrine, Lindane, Métazachlore, Métolachlore, Trifluraline, sum of Aldrine+dieldrine+endrine+isodrine - <u>Organophosphorous pesticides</u>: Azinphos-ethyl, Azinphos-methyl, Chlorfenvinfos, Chlormephos, Chlorpyriphos ethyl, Chlorpyriphos-methyl, Demethon-O, Diazinon, Dichlorvos, Dimethoate, Fenitrothion, Malathion, Ométhoate, Parathion-ethyl, Parathion-methyl, Pyrimiphos-methyl - <u>PCB</u>: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180 - <u>Chlorobenzenes</u>: Chlorobenzene, Dichlorobenzene (1,2) - (1,3) - (1,4), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, pentachlorobenzene, Hexachloro-benzene - <u>Chlorotoluenes</u>: 2-Chlorotoluene, 3-Chlorotoluene, 4-Chlorotoluene - <u>Triazines</u>: Ametryn, Atrazine, atrazine-2-hydroxydesethyl, Bentazone, Cyanazine, Cybutryn, Deisopropylatrazine, Deisopropyl-desethylatrazine, Desethylatrazine, Hydroxy-2-atrazine, hydroxysimazine, hydroxyterbutylazine, Metribuzine, Prometryne, Propazine, Sebutylazine, Simazine, terbumethon desethyl, Terbutryn, Terbutylazine, Terbutylazine-desethyl - <u>Substituted phenylureas</u>: Diuron, Isoproturon, Linuron, Metoxuron, Monolinuron, Terbumeton, - <u>PAH</u>: Acenaphtene, Acenaphtylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene, Chrysene, Dibenzo(ah)anthracene, Fluoranthene, Fluorene, Indeno(123cd)-pyrene, Methyl(2)fluoranthene, Methyl(2)naphtalene, Naphtalene, Phenanthrene, Pyrene - <u>Herbicides</u>: AMPA, Glufosinate, Glyphosate, Aminotriazole - <u>BTX</u>: Benzene, Ethylbenzene, Isopropylbenzene, Styrene, Toluene, Xylene (o) - (meta, para) - <u>Volatile Organohalogenates compounds</u>: 1,1,2,2-tetrachloroethane, 3-chloroprene (chloride d'allyle), Bromoforme, Bromochloromethane, bromomethane, Chloroforme, Chloroprene, Dibromomonochloromethane, Dichloromonobromomethane, Dichloroethane (1,1) – (1,2) cis et trans, Dichloroethylene (1,1) – (1,2), Dichloromethane, fluorotrichloromethane, Hexachlorobutadiene, Hexachloroethane, Tetrachloride de carbone, tetrachloroethylene, Trichloroethane (1,1,1) – (1,1,2), Trichloroethylene, Vinyl chloride - <u>Alkylphenols</u>: 4-n-nonylphenol, 4-n-nonylphenol monoethoxylate, 4-nonylphenols, 4- nonylphenol diethoxylate, nonylphenols (sum of isomers), 4-n-octylphenol, 4-tert-octylphenol monoethoxylate, 4-tert-octylphenol diethoxylate, 4-(1,1,3,3-tetramethylbutyl)-phenol - <u>PBDE</u>: PBDE28, PBDE47, PBDE99, PBDE100, PBDE153, PBDE154, PBDE183, PBDE209 	DGPROT01

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Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
WASTE WATER (<i>continuation</i>)	<ul style="list-style-type: none"> - <u>Organotins</u>: dibutyltin cation, monobutyltin cation, tributyltin cation, triphenyltin cation, dioctyltin cation, tetrabutyltin cation - <u>Anilines</u>: 2-chloroaniline, 3,4-dichloroaniline, 3-chloroaniline, 4-chloroaniline, 4-chloro-2-nitroaniline - <u>Chlorophenols</u>: 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,4-dichlorophenol, pentachlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 4-chloro-3-methyl phenol, Chloroacetic acid, Epichlorhydrin, Chloroalkanes C10-C13 - <u>Nitroaromatics</u>: 1-chloro-2-nitrobenzene, 1-chloro-3-nitrobenzene, 1-chloro-4-nitrobenzene, 2-nitrotoluene, nitrobenzene, Hexachlorocyclopentadiene - <u>Perfluorinated compounds</u> : perfluoro-n-octanoïque acid, perfluoro-n-octanesulfonique acid, perfluorodecanoïque acid, perfluorohexanesulfonic acid - <u>Phtalates</u> : Butyl Benzyl phtalate, Di (2-ethylhexyl)phtalate (DHP), Di-n-butyl phtalate, diethyl phtalate, dimethyl phtalate - <u>Miscellaneous</u> : Biphenyl, Tributylphosphate, Norflurazon, bisphenol A, chlortoluron, methabenzthiazuron, dibromomethane, dibromoethane-1,2, dichloropropane-1,2, dichloropropene-1,3 cis, dichloropropene-1,3 trans, ethyl tertio butyl ether 	DGPROT01
SOLID MATRICES SLUDGE , SEDIMENT (SEA AND RIVER) AND SOILS	Dry matter, Total and hydrolysable phosphorus, Kjeldahl Nitrogen, Loss on ignition on dry matter, pH, Ammonium, Total hydrocarbons, Sulfur, Total organic carbon (TOC), <u>Only for sludge</u> : CaO, K ₂ O, MgO, Na ₂ O, sulfur	DGPROT01
	Aluminium, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lithium, Mercury, Molybdenum, Nickel, Lead, Selenium, Strontium, Tellurium, Thallium, Titanium, Uranium, Vanadium, Zinc, Antimony, Barium, Boron, Silver, Tin, Iron, Manganese	DGPROT01
	<ul style="list-style-type: none"> - <u>Organochlorine pesticides</u>: 4,4' DDT, Dieldrine, Hexachlorobenzene, Lindane, aldrine, endosulfan alpha, endosulfan beta, endrine, HCH alpha, HCH beta, HCH delta, Isodrine - <u>PCB</u>: PCB 28, PCB 31, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180. - <u>PAH</u>: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)-perylene, Dibenzo(ah)anthracene, Fluoranthene, Indeno(123cd)-pyrene, Methyl(2)fluoranthene, Methyl(2)naphtalene, Anthracene, acenaphtene, acenaphtylene, chrysene, fluorene, naphtalene, phenantrene, pyrene - <u>Organophosphorous pesticides</u>: Diazinon, Parathion- ethyl, Azinphos-ethyl, chlorfenvinphos, chlorpyrifos 	DGPROT01

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DETAILED SCOPE OF ACCREDITATION

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ENVIRONMENT / WATER QUALITY / MICROBIOLOGICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
DRINKING WATER FRESH WATER	- Coliforms at 36 °C, <i>Escherichia Coli</i> , Intestinal enterococci, <i>Pseudomonas aeruginosa</i> , Culturable micro-organisms at 22 °C, Culturable micro-organisms at 36 °C, Sulfite-reducing anaerobe bacteria spores, Pathogenic staphylococci, <i>Escherichia Coli</i> by MPN 96, Enterococci by MPN 96, Total coliforms by MPN 96, <i>Salmonella</i> - <i>Legionella</i> , <i>Legionella pneumophila</i> , Yeasts, Molds	DGPROT01
WATER FROM COOLING TOWER	<i>Legionella</i> , <i>Legionella pneumophila</i> , Aerobic bacteria viable at 22°C and 36°C	DGPROT01
MATRIX SOLID-surfaces: steel plates, Wipes	<i>Total viable count</i> , <i>Listeria monocytogenes</i> , <i>Listeria spp</i> , <i>Salmonella spp</i>	DGPROT01
WATER	Norovirus GI, Norovirus GII, Hepatitis A virus	DGPROT01

FIELD OF ACTIVITY: CHEMICAL AND BIOLOGICAL PRODUCTS

CHEMICAL AND BIOLOGICAL PRODUCTS / COSMETIC AND HYGIEN PRODUCTS / PHYSICO-CHEMICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
Cream, oil, lotion, shampoo	- <u>Preservatives</u> : Benzoic acid, Salicylic acid, Sorbic acid, Chlorphenesin, Methylparaben, Phenoxyethanol <u>Heavy metals</u> : Cadmium, Chromium, Cobalt, Mercury, Nickel, Lead	DGPROT01

CHEMICAL AND BIOLOGICAL PRODUCTS / COSMETIC AND HYGIEN PRODUCTS / MICROBIOLOGICAL ANALYSES

Entity(ies) used in the proficiency test	Characteristics/Measurand	Organization protocol
Dermatological cream, Serum	<i>Mesophilic aerobic bacteria, yeast, mold, yeast + mold, Escherichia coli, Staphylococcus aureus, Pseudomonas, aeruginosa</i>	DGPROT01

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