

CHEMICAL METROLOGY SERVICE (SCHEMA) - LIST OF ACCREDITED PROCESSES

code	Technical Field / Area	Test item level 1	Test item level 2	Property 1	Property 2	SCHEME	Introduced in
11 0X	Food Testing	Food & feed	crisp bread	food allergens	sesame	11 01	2012
12 0X	Food Testing	Drinks	Spirits (alcoholic beverages)	Common parameters	Alcoholic strength (%),Congeners, sugars, phthalate esters	12 01	2011
			Spirits (alcoholic beverages)			12 02	2012
			Spirits (alcoholic beverages)			12 03	2013
			Spirits (alcoholic beverages)			12 04	2014
			Spirits (alcoholic beverages)			12 05	2015
			Spirits (alcoholic beverages)			12 06	2016
			Spirits (alcoholic beverages)			12 07	2017
			Spirits (alcoholic beverages)			12 08	2018
			Spirits (alcoholic beverages)			12 09	2019
			Spirits (alcoholic beverages)	denaturants	anethole	12 10	2020
			Spirits (alcoholic beverages)	metals	Cd, Cu, Pb	12 11	2021
			Spirits (alcoholic beverages)	metals	BITREX, IPA, MEK	12 11	2021
			Spirits (alcoholic beverages)			12 12	2023
13 0X	Food Testing	Drinks	wine	Common parameters	Density, Alcoholic strength, Acidity (volatile, total), SO2 (free, total), pH	13 02	2012
			wine			13 03	2013
			wine			13 04	2014
			wine			13 05	2015
			wine			13 06	2016
			wine	other parameters	reducing substances	13 07	2017
			wine			13 08	2018
			wine			13 09	2019
			wine			13 10	2020
			wine			13 11	2021
			wine			13 12	2022
			wine			13 13	2023
14 0X	Chemical testing		ethanol	Denaturants	Phthalate esters	14 01	2013
			antiseptic lotion	Denaturants	BITREX, IPA, MEK	14 02	2022
15 0X	Food Testing	Drinks	beer	Common parameters	Alcohol content, gravity, plato, real/apparent extract, Degree of fermentation, pH, Heavy metals	15 01	2015
			beer			15 02	2016
			beer			15 03	2017
			beer			15 04	2020
			beer			15 05	2022
21 0X	Environmental Testing	water	Potable	Common parameters	Anions (F, Cl, NO3, SO4), Cations (K, Na, Ca, Mg), Conductivity, pH	21 02	2011
			Natural mineral	Common parameters	Anions (HCO3), Total Hardness	21 03	2012
			potable	Common parameters	Anions (NO2) Cations (NH4)	21 04	2013
			potable	Common parameters	Anions (SR Phosphorus)	21 05	2014
			potable			21 06	2015
			Natural mineral	Common parameters	SAR, SSP	21 07	2016
			potable			21 08	2017
			Natural mineral	Common parameters	TDS, Br	21 09	2018
			surface water	Common parameters	total N2, total P	21 10	2019
			potable	Common parameters	Cr(VI)	21 11	2020
			potable			21 12	2021
			potable	Common parameters	CN, TOC	21 13	2022
			surface water	Common parameters	TOC	21 14	2022
			potable			21 15	2023

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22 0X	Environmental & Food testing	water	Potable	metals	Al, As, Cd, Cr, Cu, Fe, Mn, Ni, Pb, Sb	22 01	2011	
			Potable			22 02	2012	
			Surface	metals	Co, Mo, Se, Sn	22 03	2013	
			Potable	metals	B, Zn	22 04	2014	
			Surface			22 05	2015	
			Surface	metals	Hg	22 06	2016	
			Surface	metals	Sr, Sb	22 07	2017	
			Potable			22 08	2018	
			Surface	metals	Ag, Ba	22 09	2019	
			Potable			22 10	2020	
			Potable			22 11	2021	
			Potable			Be, Li, Si, Ti, U, V	22 12	2022
			Potable				22 13	2023
23 0X	Food testing	water	potable	PAHs	Benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene	23 01	2011	
			potable			23 02	2012	
		Water & oil	Sunflower oil	PAHs	Benzo[b]fluoranthene, benzo[a]pyrene, benzo[a]anthracene, chrysene,	23 03	2014	
			potable/sunflower oil			23 04	2016	
24 0X	Environmental testing	waste	Waste water	Common parameters	COD, TDS, pH	24 01	2012	
				Heavy metals	As, Cd, Cr, Cu, Mn, Ni, Pb, Cr(VI)			
			Waste water			24 02	2013	
			Waste water			24 03	2014	
			Waste water			24 04	2015	
			Waste water	Heavy metals	Al, Co, Hg	24 05	2016	
			Waste water	Common parameters	BOD, TSS	24 06	2017	
			Waste water	Heavy metals	Fe, Zn	24 07	2018	
			Waste water	Common parameters/ metals	N2, P, Se	24 08	2019	
			Waste water			24 09	2020	
			Waste water			24 10	2021	
Waste water			24 11	2022				
Waste water			24 12	2023				
25 0X	Environmental –Food	water	Mineral water	Microbiological parameters	<i>Enterococcus faecalis</i> , <i>E.coli</i>	25 01	2014	
			Potable water	Microbiological parameters	<i>Enterococci</i> , <i>E.coli</i> , Total coliforms, Colony counts 22/36°C, <i>Pseudomonas aeruginosa</i> , <i>Clostridium Perfringens</i>	25 02	2016	
			Potable water			25 03	2018	
			Potable water	Microbiological parameters	<i>Legionella spp</i>	25 04	2020	
			Potable water			25 05	2021	
			Potable water			25 06	2023	
30 0X	Chemical testing	Industrial products	Ceramics	Heavy metals release	Cd, Pb	30 01	2010	
			Ceramics			30 02	2011	
			Ceramics			30 03	2012	
			Ceramics			30 04	2013	
			Ceramics			30 05	2014	
			Ceramics			30 06	2015-6	
			Ceramics		Al	30 07	2016	
			Ceramics			30 08	2017	
			Ceramics			30 09	2018	
			Ceramics			30 10	2019	
			Ceramics		Co, Zn	30 11	2020	

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			Ceramics			30 12	2021
			Ceramics			30 13	2022
			Ceramics			30 14	2023
40 OX	Food testing	Food & feed	Raisins (slurry)	mycotoxins	OTA	40 01	2011
		Food	nuts	mycotoxins	B1, G1	40 02	2012
		Food	Milk powder	mycotoxins	M1	40 03	2014
		Feed	Animal feed (cereal)	mycotoxins	B1,B2, G1, G2, OTA	40 04	2016
60 OX		Food	milk	mycotoxins	aflatoxin M1	60 05	2017
62 OX		fishery	tuna	toxins	histamine	62 05	2017
80 OX		Food	dried fig slurry	mycotoxins	aflatoxin B1, B2, G1, G2, total aflatoxin	80 05	2018
				additives	sulfites		
40 OX		Food	fruit juice	mycotoxins	OTA	40 05	2019
				Common parameters	sugars, acidity, brix, pH		
		Food	pistachios	mycotoxins	aflatoxins B1, B2, G1, G2	40 06	2021
60 OX		Food	milk	contaminants	melamine	60 07	2022
40 OX		τρόφιμα	raisins	mycotoxins		40 07	2023
50 OX	Fuel testing	fuel	Heating oil	Common parameters	Density, Flash point, CFPP, Kinematic viscosity, Pour Point, Cetane index	50 02	2012
				Distillation characteristics	IBP, 10%, 50%, 90%, 95%, vol 250°C, vol 350°C, % residue		
				Analytes	Sulfur, Solvent yellow 124		
			Bunkering oil	Common parameters	Density, Flash point, Kinematic viscosity, Pour Point, Cetane index	50 03	2013
				Distillation characteristics	10%, 50%, 90%		
				Analytes	Carbon residue, Sulfur, quinizarin		
			Automotive diesel	Common parameters	Density, Flash point, CFPP, Kinematic viscosity	50 04	2014
				Distillation characteristics	10%, 50%, 90%, 95%, vol 250°C, vol 350°C, % residue		
				Analytes	Sulfur, FAMES, water		
			Automotive diesel	Distillation characteristics	IBP	50 05	2015
			Unleaded gasoline	Common parameters	Density, DVPE	50 06	2016
				Distillation characteristics	IBP, 10% evaporated, 50% evaporated, 90% evaporated, 95% evaporated, FBP, vol 70°C, vol 100°C, vol 150°C, % distillation residue		
				Analytes	Sulfur, benzene, aromatics, olefins, quinizarin		
			Automotive diesel	Common parameters	pour point, cloud point, cetane index	50 07	2017
				Distillation characteristics	FBP		
				Analytes	carbon residue on 10% distillation residue		
			Unleaded gasoline	Common parameters	copper strip corrosion, oxygen content, RON	50 08	2018
			residual marine fuel oil	Common parameters	density, viscosity, CCAI,sulfur, flash point, TAN, % residue, pour point, water, ash, total sediment-aged, metals	50 09	2018
				Analytes	carbon residue		
			diesel	Common parameters	acid number, ash, copper strip corrosion, lubricity (HFRR)	50 10	2019
			marine oil	Common parameters	acid number, water, ash, cloud point	50 11	2019
			diesel			50 12	2020
			residual marine fuel oil	Common parameters	specific energy	50 13	2020
			Unleaded gasoline	Common parameters	ASVP	50 14	2021
			diesel			50 15	2021
			marine oil	Common parameters		50 16	2022
			diesel			50 17	2022
			automotive gasoline			50 18	2023
			diesel	Common parameters,	calorific value	50 19	2023
				Elemental analysis	C, H, N		
51 OX	Fuel testing	Solid fuel	Russian coal	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 02	2013
				Elemental analysis	C, H, N, S		
			lignite	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 03	2014

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				Elemental analysis	C, H, N, S		
			Steam coal	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 04	2014
				Elemental analysis	C, H, N, S		
			Ukrainian High volatile Bituminous coal	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 05	2015
				Elemental analysis	C, H, N, S		
			Brown coal	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 06	2016
				Elemental analysis	C, H, N, S		
			Steam coal			51 07	2016
			lignite			51 08	2017
			Russian bituminous coal			51 09	2017
			pet coke	Common parameters	Moisture, ash, Gross calorific, Net calorific, Volatile matter	51 10	2018
				Elemental analysis	C, H, N, S		
			brown coal			51 11	2018
			steam coal			51 12	2019
			bituminous coal			51 13	2019
			Steam coal			51 14	2020
			brown coal			51 15	2020
			bituminous coal			51 16	2021
			RDF			51 17	2021
			brown coal			51 18	2022
			RDF		chlorine, fluorine, metals	51 19	2022
			bituminous coal			51 20	2023
			RDF			51 21	2023
52 0X	Lubricant's testing	lubricants	lubricants	Common parameters	density, TAN, TBN, flash point PMCC & COC, kinematic viscosity, viscosity index, apparent viscosity, pour point, colour, sulfur, water, metals	52 01	2018
			lubricants			52 02	2020
60 0X	Food Testing	dairy	cheese	Common parameters	Fat, proteins, Total Solids	60 01	2012
			cheese	Common parameters	pH	60 02	2014
			milk	other parameters	Detection of adulteration		
			yogurt	Common parameters	Fat, proteins, Total Solids, pH, Ash,	60 03	2015
				Common parameters	Carbohydrates, Calorific value		
			grated cheese			60 04	2016
			milk	Common parameters	fat, protein, total solids, total sugars, pH	60 05	2017
				mycotoxin	aflatoxin M1		
			cheese	Common parameters	moisture, sugars, ash, calorific value, Ca, salt	60 06	2020
			milk	other parameters	melamine	60 07	2022
62 0X	Food testing	herbs	Tea-leaves	Heavy metals/common parameters	As, Cd, Cr, Cu, Ni, Pb, Cr (VI)	62 01	2013
		Fruits, vegetables	potato	Heavy metals/common parameters	Cr, Cr (VI)		
		dairy	Milk powder	Heavy metals	As, Cd, Cr, Cu, Ni, Pb	62 02	2014
		drink	wine	Heavy metals	As, Cd, Cu, Fe, Pb, Zn	62 03	2015
		fishery	tuna	Heavy metals	Cd, Hg, Pb, Sn	62 04	2015
		fishery	tuna	Heavy metals	As, Co, Cr, Cu, Mn, Ni, Zn	62 05	2017
				toxins	histamine		
		vegetables	soya bean powder	Heavy metals	Co, Cr, Cu, Mn, Mo, Ni, Zn	62 06	2018
				common parameters	fat, protein, sugars, dietary fibres		
64 0X		cereals	corn snacks	common parameters	fat, protein, moisture, ash, carbohydrates, dietary fibres, salt	64 01	2019
62 0X		cocoa products	cocoa	metals	Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Zn	62 07	2019
		fishery	tuna	metals	Fe, Se	62 08	2020
		cereals/dairy	infant formula	metals/nutrients	Al, Cd, Cr, Cu, Fe, Mn, Mo, Ni, Se, Zn/ Ca, K, Mg, Na, Cl, I, P	62 09	2021
				common parameters	fat, sugars, protein, fibres, ash, moisture, energy		
				other parameters	acrylamide		

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		ready meal	baby food	metals/nutrients	Al, Cd, Cr, Cu, Fe, Mn, Mo, Ni, Se, Zn/ Ca, K, Mg, Na, Cl, I, P	62 10	2022
				common parameters	fat, sugars, protein, fibres, ash, moisture, energy		
				other parameters	acrylamide		
		ready meal	tomato paste	metals	Sb, Sn	62 11	2023
				illegal dyes	sudan		
63 0X	Food Testing	water	potable	Pesticide residues	π.χ. Alachlor, atrazine, chlorpyrifos	63 01	2013
		cereals	Wheat flour	Pesticide residues	π.χ. Alachlor, atrazine, chlorpyrifos	63 02	2014
				Other parameters	acrylamide		
		drink	Orange juice	Pesticide residues	π.χ. Alachlor, atrazine, chlorpyrifos	63 03	2015
		vegetables	Tomato puree	Pesticide residues	π.χ. Alachlor, atrazine, chlorpyrifos	63 04	2016
		fruits	πουρές αχλάδι	Pesticide residues	e.g. boscalid, chlorpyrifos	63 05	2017
		coffee	pear puree	Other parameters	acrylamide		
64 0X	Food testing	cereals	instant coffee	Other parameters	acrylamide	64 01	2019
62 0X		cereals/dairy	corn snacks	Other parameters	acrylamide	62 09	2021
70 0X	Food testing	honey	honey	Common parameters	Moisture, conductivity, HMF,	70 01	2012
				Common parameters	Diastase activity		
				sugars	Fructose, Glucose, Sucrose, Maltose		
				Pollen count	Thyme Pollen		
			honey			70 02	2013
			honey			70 03	2014
			honey			70 04	2015
			honey			70 05	2016
			honey			70 06	2017
			honey			70 07	2018
			honey			70 08	2019
			honey			70 09	2020
			honey	other parameters	pH, acidity, non soluble matter, colour	70 10	2021
			honey	other parameters	proline	70 11	2022
			honey			70 12	2023
80 0X	Food Testing	Drinks	Soft drinks	preservatives	Benzoic acid, Sorbic Acid	80 01	2012
		Drinks	wine	preservatives	Benzoic acid, Sorbic Acid	80 02	2013
		Drinks	Soft drink	Preservatives/colourants	E110, E124	80 03	2015
		sweets	chocolate syrup	preservatives	Benzoic acid, Sorbic Acid	80 04	2017
		dried fruits	milled dried apricot	preservatives	SO2	80 05	2018
				common parameters	sugars, total dietary fibre, energy		
			dried fig slurry	mycotoxins	aflatoxin B1, B2, G1, G2, total aflatoxins		
		Bakery products	bread	preservatives	sorbic acid, propionic acid	80 06	2019
		Bakery products	bisquits	other paramaters	coumarin	80 07	2022
		Drinks	non alcoholic drinks	Preservatives/colourants	E129, καφεΐνη, ακετοσουλφάμη Κ, κυκλαμικά	80 08	2023
90 0X	Food testing	Fat-oil	Olive oil	Common parameters	Peroxide value, acidity, K232, K270	90 01	2012
			Olive oil		ΔΚ, fatty acids, trans	90 02	2013
			Vegetable oil		ΔECN42, waxes, moisture/volatiles, alkylesters	90 03	2014
			Olive oil		ethylesters, sterols/diols, stigmastadienes	90 04	2015
			Olive oil		moisture (KF)	90 05	2016
			Olive oil		biophenols	90 06	2017
			Vegetable oil			90 07	2018
			Vegetable oil			90 08	2019
			Vegetable oil			90 09	2020
			Vegetable oil			90 10	2021
			Vegetable oil			90 11	2022
			Olive oil			90 12	2023

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91 0X	Organoleptic assessment	Virgin Olive oil	extra virgin, virgin, lampante olive oil	Attributes perceived	Fruity attribute, defects	91 01	2014
			extra virgin, virgin, lampante olive oil			91 02	2015
			extra virgin, virgin, lampante olive oil			91 03	2016
			extra virgin, virgin, lampante olive oil			91 04	2017
			extra virgin, virgin, lampante olive oil			91 05	2018
			extra virgin, virgin, lampante olive oil			91 06	2019
			extra virgin, virgin, lampante olive oil			91 07	2020
			extra virgin, virgin, lampante olive oil			91 08	2021
			extra virgin, virgin, lampante olive oil			91 09	2022
			extra virgin, virgin, lampante olive oil			91 10	2023
81 0X	feed	cattle feed	flour of vegetable origin	common parameters	moisture, ash, fat, protein, crude fibre	81 01	2016
				heavy metals	Fe, Mn, Zn		
			flour of vegetable origin	heavy metals	Cu, Ca, K, Na, P, Mg	81 02	2021
55 0X	tobacco products	tobacco products	cigarettes	common parameters	puffs, TPM, CO, NFDPM, nicotine, water	55 01	2018
92 0X	Food testing	Fat-oil	Olive oil	Contaminants	phthalate esters	92 01	2016
			Olive oil		phthalates, PAHs	92 02	2017
			olive oil/vegetable oil		2&3 MCPD, glycidyl esters	92 03	2019
			vegetable oil			92 04	2021
			vegetable oil			92 05	2023