SCOPE OF ACCREDITATION FOR TESTING LABORATORY
No. AB 079
issued by
POLSKIE CENTRUM AKREDYTACJI
01-382 Warszawa, ul. Szczotkarska 42

Issue 72 of 24.11.2026

This scope of accreditation is J.S. Hamilton Poland's translation. In the event of discrepancies, only the original PCA document is binding. You can find it at https://www.pca.gov.pl/

AB 079	Name and address **J.S. HAMILTON POLAND Sp. z o.o.** **TESTING LABORATORY** **ul. Chwaszczyńska 180** **81-571 Gdynia**
Identification code *)	**Field of testing and item:**
- B/1, B/4, B/17, B/22, B/42, B/55, B/57	- Biological and biochemical tests of agricultural products – including animal feedstuffs, chemical products, other products, food,cosmetics, fertilizers, animal feedstuffs, objects from food production area
- C/1/P, C/28/P, C/29/P, C/30/P, C/31/P, C/32/P	- Chemical tests and sampling of feedstuffs, water, drinking water, sewage, soil, sediments, waste
- C/4, C/6, C/10, C/17, C/18, C/21, C/22, C/23, C/25, C/42, C/43, C/44, C/45, C/49, C/53, C/54, C/55	- Chemical tests of agricultural products – chemical products, electrical, products and equipment, fuels (gas, liquid, solid), other products, paper, cardboard, plastic and rubber products, foods, textiles, toys, cosmetics, fertilizers, plant growth substances, paints and lacquers, packaging materials, electrical, telecommunication and electronic products and equipment, electronic equipment, animal feedstuffs
- K/9/P, K/28/P, K/29/P, K/30/P, K/32/P	- Microbiological tests and sampling of air, water, drinking water, sewage, sediments

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*) The identification code according to the Annex to document DAB-07, available at PCA website www.pca.gov.pl

This document is an annex to accreditation certificate No. AB 079 of 03.08.2020
Accreditation cycle from 15.05.2026 to 31.05.2030
The status of accreditation and validity of the scope of accreditation can be confirmed at PCA website *www.pca.gov.pl*

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Identification code *)	**Field of testing and item:**
- K/1, K/3, K/4, K/9, K/10, K/12, K/17, K/18, K/21, K/22, K/27, K/42, K/49, K/55, K/57	- Microbiological tests of agricultural products, biological materials for testing, chemical products, liquid fuels, glass and ceramics, other products, paper, cardboard, plastic and rubber products, food, wood, cosmetics, packaging materials, animal feedstuffs, objects from food production area
- N/28/P, N/29P, N/30/P, N/31/P, N/32/P	- Tests of physical properties and sampling of water, drinking water, sewage, soil, sediments, waste
- N/1, N/4; N/10, N/18, N/21, N/22, N/23, N/25, N/42, N/49,N/55	- Tests of physical properties of agricultural products, chemical products, fuels, paper, cardboard, plastic and rubber products, food, textiles, toys, cosmetics, packaging materials, animal feedstuffs
- Q/28/P, Q/29/P	- Sensory tests and sampling of water, drinking water
- Q/1, Q/4, Q/6, Q/10, Q/12, Q/17, Q/18, Q/21, Q/22, Q/42, Q/49	- Sensory tests of agricultural products, chemical products, electrical products, fuels, glass and ceramics, other products, paper, cardboard, plastic and rubber products, food, cosmetics, packaging materials

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Fuel Laboratory Gdynia Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Liquid fuels: **diesel oil, light heating fuel**	Cetane index (calculated)	PN-EN ISO 4264:2018-08
Liquid fuels: diesel oil, unleaded petrol, light heating fuel, marine fuel	Copper strip test Range: corrosion class (1 – 4) Visual method	PN-EN ISO 2160:2004
Liquid fuels: diesel oil, light heating fuel, heavy heating fuel, marine fuel	Kinematic viscosity at temperature 40°C, 50 °C and 100 °C Capillary method Range: (2,000 – 50,00) mm^2/s Dynamic viscosity (calculated)	PN-EN ISO 3104:2024-01 Procedure A
Liquid fuels: diesel oil, light heating fuel, marine fuel	Water content Range: (0,003 – 0,100) % (m/m) Coulometric titration method	PN-EN ISO 12937:2005+Ap1:2021-11
	Contamination content Range: (6,0 – 30,0) mg/kg Gravimetric method	PN-EN 12662-1:2024-11
	Cloud point Range: (-40 – 0) ˚C Visual method	PN-EN ISO 3015:2019-06
Liquid fuels: **diesel oil, light heating fuel, heavy heating fuel, marine fuel**	Pour point Range: (-33 – +30) ˚C Visual method	PN-EN ISO 3016:2019-06
	Ash content Range: (0,001 – 0,180) % (m/m) Gravimetric method	PN-EN ISO 6245:2008
Liquid fuels: **light heating fuel, heavy heating fuel, marine fuel**	Sulphur content Range: (0,03 – 2,00) % (m/m) Energy-dispersive X ray fluorescence spectrometry method (ED-XRF)	PN-EN ISO 8754:2026-02
Liquid fuels: unleaded petrol	Gum content Range: Solvent-washed gum (1,0 – 10,0) mg/100 ml Unwashed gum (1,0 – 100,0) mg/100 ml Gravimetric method	PN-EN ISO 6246:2017-05+A1:2020-03 except p. 8 and 9
	Oxidation stability Range: (200– 600) min Induction period method	PN-EN ISO 7536:2011
	Air saturated vapour pressure (ASVP) Range: (50,0 – 90,0) kPa Mini Reid method	PN-EN 13016-1:2024-11
	Dry vapour pressure equivalent (DVPE) (calculated)	
	Benzene content Range: (0,1 – 2,0) % (v/v) IR spectrometry method (IR)	PN-EN 238:2000+A1:2008

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Liquid fuels: unleaded petrol	Hydrocarbon types content Range: Aromatic hydrocarbons (20,0 – 40,0) % (v/v) Olefins hydrocarbons (1,0 – 20,0) % (v/v) Saturated hydrocarbons (45,0 – 68,0) % (v/v) Fluorescent indicator adsorption method (FIA method)	PN-EN 15553+A1:2025-05
Liquid fuels: diesel oil	Fatty acid methyl esters content (FAME) Range: (0,05 – 10,0) % (v/v) IR spectrometry method (IR)	PN-EN 14078:2014-06
Liquid fuels: diesel oil, unleaded petrol, light heating fuel, marine fuel	Sulphur content Range: (3,0 – 60,0) mg/kg Ultraviolet fluorescence method	PN-EN ISO 20846:2020-03
Liquid fuels: diesel oil, light heating fuel, heavy heating fuel, marine fuel	Flash point Range: (40,0 – 140,0) ˚C Pensky-Martens closed cup method	PN-EN ISO 2719:2026-06
Liquid fuels: diesel oil, light heating fuels	Cold filter plugging point (CFPP) Range: (-41 – 0) ˚C Optical method	PN-EN 116:2015-09
Liquid fuels: diesel oils, fatty acid methyl esters (FAME)	Oxidation stability Range: (1,0 – 40,0) h Conductometric method	PN-EN 15751:2025-10
Liquid fuels: diesel oil, light heating fuel, marine fuel	Carbon residue Range: (0,01 – 15,00) % (m/m) Gravimetric method	PN-EN ISO 10370:2014-12
	Oxidation stability Range: (2 – 25) g/m^3 Gravimetric method	PN-EN ISO 12205:2011+Ap1:2013-09
Liquid fuels: diesel oil, light heating fuel, heavy heating fuel	Gross calorific value Range: (30000 – 45000) kJ/kg Calorimetric method Net calorific value (calculated)	PN-C-04062:2018-05
Liquid fuels: heavy heating fuel	Water content Range: (0,05 – 25) % (m/m) Distillation method	PN-EN ISO 9029:2005
Liquid fuels: diesel oil, unleaded petrol, light heating fuel, marine fuel	Distillation characteristics Range: (10,0 – 400,0) ˚C Distillation method	PN-EN ISO 3405:2019-05
	Density at temperature 15˚C, 20˚C Range: (720,0 – 900,0) kg/m^3 Oscillating method	PN-EN ISO 12185:2024-08
Liquid fuels: heavy heating fuel	Density at temperature 15˚C Range: (890,0 – 990) kg/m^3 Oscillating method	PN-EN ISO 12185:2024-08

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Gaseous fuels: Liquefied hydrocarbon gases, LPG	Detection of hydrogen sulphide Visual method	PN-EN ISO 8819:2000
	Sulphur content Range: (1,0 – 196) mg/kg Ultraviolet fluorescence method	ASTM D 6667-21
	Copper strip test Range: corrosion class (1 – 4) Visual method	PN-EN ISO 6251:2001
	Detection of water Visual method	PN-EN 15469:2009 PN-C-96008:1998 p. 4.4.5
	Net calorific value (calculated)	PN-C-96008:1998 p. 4.4.8
	Hydrocarbons composition Range: (0,1 – 100) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 27941:2015-12
	Total dienes content Range: (0,1 – 1,0) % (mol/mol) (0,1 – 1,0) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 27941:2015-12
	Motor octane number MON (calculated)	PN-EN 589:2024-08 app. B
	Density at temperature 15 ˚C (calculated)	PN-EN ISO 8973:2000+A1:2020-10
	Density at temperature 15,6 ˚C (calculated)	PN-C-96008:1998 p. 4.4.9
	Vapour pressure at temperature -15 ˚C, 40 °C, 70 °C (calculated)	PN-C-96008:1998 p. 4.4.10
	Vapour pressure, estimated in temperatures: -10 ˚C, -5 ˚C, 0 ˚C, 10 ˚C, 20 ˚C, 37,8 ˚C, 40 ˚C, 50 ˚C, 70 ˚C (calculated)	PN-EN ISO 8973:2000+A1:2020-10 PN-EN 589:2024-08 app. C
	Temperature, at which it is estimated the relative vapour pressure is not less than 150 kPa (calculated)	PN-EN ISO 8973:2000+A1:2020-10 PN-EN 589+A1:2022-07 app. C
	Odour Organoleptic method	PN-EN 589:2024-08 app. A PN-C-96008:1998 p. 4.4.7
	Mineral oil content Range: (0,0002 – 0,0100) % (m/m) Gravimetric method	PN-C-96008:1998 p. 4.4.4
	Dissolved residues Range: (20 – 100) mg/kg Gravimetric method	PN-EN 15471:2017-08
	Hydrocarbons composition Range: (0,10 – 100,0) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02
	1,3 butadiene content Range: (0,01 – 1,00) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Gaseous fuels: **Liquefied hydrocarbon gases, LPG**	Total dienes content Range: (0,10 – 1,00) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02
Liquid fuels: **fatty acids methyl esters (FAME)**	Density at temperature 15 °C, 20 °C Range: (860,0 – 900,0) kg/m^3 Oscillating method	PN-EN ISO 12185:2024-08
	Kinematic viscosity at temperature 40 °C Range: (3,500 – 5,000) mm^2/s Capillary method	PN-EN ISO 3104:2024-01 Procedure A
	Flash point Range: (90,0–180,0) °C Pensky-Martens closed cup method	PN-EN ISO 2719:2026-06
	Copper strip test Range: corrosion class (1 – 4) Visual method	PN-EN ISO 2160:2004
	Water content Range: (0,010 – 0,100) % (m/m) Coulometric titration method	PN-EN 12937:2005+Ap1:2021-11
Liquid fuels: **fatty acids methyl esters (FAME)**	Contamination content Range: (6,0 – 30,0) mg/kg Gravimetric method	PN-EN 12662-2:2024-11
	Sulphur content Range: (3,0 – 15,0) mg/kg Ultraviolet fluorescence method	PN-EN ISO 20846:2020-03
Liquid fuels: **diesel oil**	Aromatic hydrocarbons groups content Range: -mono-aromatic hydrocarbons (MAH) (6-30)% (m/m) -di-aromatic hydrocarbons (DAH) (1-10)% (m/m) -tri+-aromatic hydrocarbons (T+AH) (0-2)% (m/m) -polycyclic aromatic hydrocarbons (POLY-AH) (1-12)% (m/m) High performance liquid chromatography method with refractometric detection (HPLC-RID) Total content of aromatic hydrocarbons (calculated)	PN-EN 12916:2024-08 except method B
Liquid fuels: **unleaded petrol** **Liquid petroleum products**	Organic oxygenate compounds content Range: (0,17 – 15) % (m/m) % (v/v) Gas chromatography method with flame ionization detection (GC-FID) Total content of organically bound oxygen (calculated)	PN-EN 13132:2005

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Fuel Laboratory Tychy Goździków 1, 43-100 Tychy		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Gaseous fuels: **Liquefied hydrocarbon gases, LPG**	Detection of hydrogen sulphide Visual method	PN-EN ISO 8819:2000
	Sulphur content Range: (1,0 – 200) mg/kg Ultraviolet fluorescence method	ASTM D 6667-21
	Copper strip test Range: corrosion class (1 – 4) Visual method	PN-EN ISO 6251:2001
	Detection of water Visual method	PN-EN 15469:2009 PN-C-96008:1998 p. 4.4.5
	Hydrocarbons composition Range: (0,1 – 100) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 27941:2015-12
	Total dienes content (as 1,3-butadiene) Range: (0,1- 1,0) % (mol/mol) (0,1- 1,0) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 27941:2015-12
	Hydrocarbons composition Range: (0,1 – 100) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02
	1,3- butadiene content Range: (0,01 – 1,00) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02
	Total dienes content Range: (0,10 – 1,00) % (m/m) Gas chromatography method with flame ionization detection (GC-FID)	DIN 51619:2004-02
	Motor octane number MON (calculated)	PN-EN 589:2024-08 app. B
	Density at temperature 15 ˚C (calculated)	PN-EN ISO 8973:2000+A1:2020-10
	Density at temperature 15,6 ˚C (calculated)	PN-C-96008:1998 p. 4.4.9
	Vapour pressure at temperatures: -15˚C, 40 ˚C and 70 ˚C (calculated)	PN-C-96008:1998 p. 4.4.10
	Vapour pressure, estimated in temperatures: -10 ˚C, -5 ˚C, 0 ˚C, 10 ˚C, 20 ˚C, 37,8 ˚C, 40 ˚C, 50 ˚C, 70 ˚C (calculated)	PN-EN ISO 8973:2000+A1:2020-10 PN-EN 589:2024-08 app. C
	Temperature, at which it is estimated the relative vapour pressure is not less than 150 kPa (calculated)	PN-EN ISO 8973:2000+A1:2020-10 PN-EN 589+A1:2022-07 app. C
	Net calorific value (calculated)	PN-C-96008:1998 p. 4.4.8
	Odour Organoleptic method	PN-EN 589:2024-08 app. A PN-C-96008:1998 p. 4.4.7

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Gaseous fuels: **Liquefied hydrocarbon gases, LPG**	Dissolved residues Range: (20 – 100) mg/kg Gravimetric method	PN-EN 15471:2017-08
	Mineral oil content Range: (0,0010 – 0,0100) % (m/m) Gravimetric method	PN-C-96008:1998 p. 4.4.4
Solid fuels: **coal**	Volatile matters content Range: (1,50 – 44,00) % Gravimetric method	PN-G-04516:1998
	Total moisture content Range: (1,0– 25,0) % Gravimetric method	PN-ISO 589:2006 method B1
	CO_2 emission factor (calculated)	PB-258 ed. 2 of. 26.08.2024
	Oxidation factor (calculated - on basis of total carbon content in fuel and solid products of combustion)	PB-259 ed. 2 of. 26.08.2024
	Sintering ability Range : 0 – 80 Gravimetric method	PN-81/G-04518
	Fixed carbon factor (calculated)	PN-G-04516:1998
Solid fuels: **coke derived from coal**	Total moisture content Range: (1,0 – 60,0) % Gravimetric method	PN-ISO 579:2002
	Moisture content in test sample Range:(0,1 – 6,0) % (m/m) Gravimetric method	PN-ISO 687:2005
Solid fuels: **coal and coke**	Total moisture content Range: Hard coal (1,0 – 30,0) % Coke (0,1 – 10,0) % Gravimetric method	PN-80/G-04511 p. 2.3.2, p. 2.3.4
	Moisture content in test sample Range: (0,10 – 10,00) % Thermogravimetric method (TGA)	PN-G-04560:1998
	Moisture content in test sample Range: (0,1 – 10,0) % Gravimetric method	PN-ISO 11722:2009
	Ash content Range: (0,10 – 55,00) % Thermogravimetric method (TGA)	PN-G-04560:1998
	Ash content Range: (1,0 – 55,0) % Gravimetric method	PN-ISO 1171:2002
	Gross calorific value Range: (14000 – 35000) kJ/kg Calorimetric method Net calorific value (calculated)	PN-81/G-04513 PN-ISO 1928:2020-05
	Volatile matters content Range: Hard coal (1,6 – 44,0)% Coke (0,5 – 10,0) % Gravimetric method	ISO 562:2024-08

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Solid fuels: **coal and** **coke**	Total sulphur content Range: (0,10 – 2,50) % (m/m) High-temperature combustion method with IR detection	PN-G-04584:2001 ASTM D 4239-18 $^{\varepsilon 1}$ (method A)
	Total sulphur content Range: (0,20 – 2,50) % (m/m) High-temperature combustion method with IR detection	ISO 19579:2006
	Total carbon content Range: (40,0 – 100,0) % High-temperature combustion method with IR detection	PN-G-04571:1998 PKN-ISO/TS 12902:2007
	Hydrogen content Range: (0,10 – 5,60) % High-temperature combustion method with IR detection	PN-G-04571:1998 PKN-ISO/TS 12902:2007
	Chlorine content Range:(0,03 – 0,50) % Titrimetric method	PN-ISO 587:2000 p. 7.2.1
Waste [O)] group code: **10 01 01, 10 01 02, 10 01 03,** **10 01 15, 10 01 17, 10 01 80**	Moisture content in test sample Range: (0,10 – 10,00) % Thermogravimetric method (TGA)	PB-72 ed. 2 of 26.08.2024
	Ash content Range:(40,00 – 99,90) % (m/m) Thermogravimetric method (TGA)	PB-347 ed. 2 of 26.08.2024
	Total carbon content Range: (0,3 – 40,0) % High-temperature combustion method with IR detection	PB-73 ed. 2 of 15.03.2024
	Total moisture content Range: (0,1 – 40,0) % Gravimetric method	PB-90 ed. 2 of 26.08.2024
Solid fuels: **solid biomass - solid biofuels**	Moisture content in test sample Range: (1,00 – 20,00) % Thermogravimetric method (TGA)	PB-98 ed. III of 21.05.2013
	Total moisture content Range: (3,0 – 85,0) % Gravimetric method	PN-EN ISO 18134-2:2024-10
	Hydrogen content Range: (3,0 – 8,0) % High-temperature combustion method with IR detection	PN-EN ISO 16948:2015-07
	Ash content Range: (0,1 – 45,0) % Gravimetric method	PN-EN ISO 18122:2023-05
	Sulphur content Range: (0,02 – 0,20) % High-temperature combustion method with IR detection	PN-EN ISO 16994:2016-10 p. 4.4
	Carbon content Range: (30,0 – 50,0) % High-temperature combustion method with IR detection	PN-EN ISO 16948:2015-07
	Gross calorific value Range: (5000 – 22000) kJ/kg Calorimetric method Net calorific value (calculated)	PN-EN ISO 18125:2017-07

[O)] Waste codes given according to Minister of Climate Regulation on the waste catalogue.

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Solid fuels: **solid biomass - solid biofuels**	Volatile matters content Range: (60,0 – 85,0) % Gravimetric method	PN-EN ISO 18123:2023-10
	Chlorine content Range:(0,04 – 0,50) % Titrimetric method	PB-86 ed. 3 of 06.10.2025

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Microbiology Laboratory Gdynia Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Meat **Fish** **Eggs**	Detection of antibiotics residues Diffusion method	PB-216 ed. II of 23.10.2015 based on the manufacturer's instructions Premi Test
Milk **Milk powder** **Cream**	Detection of antibiotics and other inhibitors Diffusion method	PN-91/A-86033 Delvotest SP NT
Fruit, vegetable and vegetable with meat products	Shelf life of canned food Thermostatic test	PN-90/A-75052/03
Meat and meat products	Shelf life of canned food Thermostatic test	PN-A-82055-5:1994
Fish and fishery products	Shelf life of canned food Thermostatic test	PN-A-86732:1992
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade: **- swabs from the surface limited with template** **- swabs from surface unlimited with template**	Enumeration of Legionella Membrane filtration method	PB-404 ed. I of 30.10.2019

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Number of microorganisms Colony count technique (spread plate method)	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Environmental samples from cosmetics production areas as well as cosmetics trade** [E] **Drinking water, surface water, water, swimming pool water** [E]	Number of microorganisms Colony count technique (pour plate method)	Standardized methods In-house test procedures
Environmental samples from food production areas as well as food trade [E] **Paper and board materials and articles** [E] **Plastic and rubber articles** [E] **Metal, glass and ceramics articles** [E] **Wood and wood articles** [E] **- Environmental samples of defined surfaces** **- Environmental samples of undefined surfaces**	Number of microorganisms Colony count technique (pour plate method)	Standardized methods
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade [E]	Enumeration of microorganisms Colony count technique	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Presence of microorganisms The tube culturing method	Standardized methods In-house test procedures
	Presence of microorganisms The tube culturing method with biochemical confirmation	Standardized methods In-house test procedures

E – Flexible scope of accreditation. Flexible scope includes the elements indicated in document DA-10 for the scope of accreditation of testing laboratories.

A list of activities conducted under the flexible scope of accreditation shall be available on request by the accredited body.

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Presence of microorganisms Culturing method with biochemical confirmation	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Drinking water, surface water, swimming pool water** [E]	Presence of microorganisms Culturing method with biochemical and serological confirmation	Standardized methods In-house test procedures
Environmental samples from food production areas as well as food trade [E]	Presence of microorganisms Culturing method with biochemical and serological confirmation	Standardized methods
Food [E] **-Environmental samples from food production areas as well as food trade** [E]	Presence of microorganisms Culturing method with biochemical and microscopic confirmation	Standardized methods
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Most probable number of microorganisms Tube fermentation technique MPN	Standardized methods In-house test procedures
Food [E] **Drinking water, surface water, pool water, sewage, water** [E] **Diesel** [E]	Number of microorganisms Membrane filtration method	Standardized methods

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Paper and board materials and articles [E] **Plastic and rubber articles** [E] **Metal, glass and ceramics articles** [E] **Wood and wood articles** [E] **- Environmental samples of defined surfaces** **- Environmental samples of undefined surfaces**	Presence of microorganisms The tube culturing method with biochemical confirmation	Standardized methods
	Presence of microorganisms Culturing method with biochemical confirmation	Standardized methods
	Presence of microorganisms Culturing method with biochemical and serological confirmation	Standardized methods
Microorganisms strains [E]	Taxonomic identification of microorganisms Biochemical, immunochemical, PCR, microscopic method	PB-251
Food [E]	Presence of specific DNA of Escherichia coli and detection of Shiga toxin-producing Escherichia coli (STEC) PCR method, Bax System	ISO/TS 13136 PB-402
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Presence of specific DNA of microorganisms PCR method, Bax System	In-house test procedures

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Molecular Biology Laboratory Tychy Goździków 1, 43-100 Tychy		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Food [E] **Animal feedstuffs** [E] **Environmental samples from the areas of food production and food trade** [E]	Detection of a specific GMO sequence (screening) Real-time PCR method	PB-397
	Detection of a specific genetic modification DNA Real-time PCR method	PB-391
	Detection of a specific allergen DNA Real-time PCR method	PB-393 PB-399
	Detection of a specific animal species DNA Real-time PCR method	PB-399
	Quantitative determination of allergen Immunoenzymatic method - ELISA	PB-394
Fruits, vegetables and fruit and vegetable preserves [E]	Detection of viral genetic material Real-Time RT-PCR method	PB-202
Food [E] **Animal feedstuffs** [E]	Quantification of a specific genetic modification DNA Real-time PCR method	PB-392
	Quantification of a specific animal species DNA Real-time PCR method	PB-399
	Quantification of a specific allergen DNA Real-time PCR method	

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Microbiology Laboratory Przeźmierowo Rzemieślnicza 9, 62-081 Przeźmierowo		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Environmental samples from areas of cosmetics production and cosmetics trade: - swab from the surface limited with template - swab from surface unlimited with template	Enumeration of microorganisms Colony count technique (pour plate method)	PN-EN ISO 4833-1:2013-12
	Enumeration of Enterobacteriaceae Colony count technique (pour plate method)	PN-EN ISO 21528-2:2017-08
Environmental samples from areas of cosmetic production and cosmetic trade - contact plates (surfaces)	Enumeration of microorganisms Colony count technique	PN-EN ISO 4833-2:2013-12
	Enumeration of Enterobacteriaceae Colony count technique	PN-EN ISO 21528-2:2017-08
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E]	Enumeration of microorganisms Colony count technique (spread plate method)	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method test-tube	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method test-tube with biochemical confirmation	Standardized methods
	Detection of microorganisms Culturing method with biochemical confirmation	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method with biochemical and microscopic confirmation	Standardized methods
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E]	Detection of microorganisms Culturing method with biochemical and serological confirmation	Standardized methods
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E] **Drinking water, surface water, pool water, water** [E]	Enumeration of microorganisms Colony count technique (pour plate method)	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E]	Most probable number of microorganisms Tube fermentation technique MPN	Standardized methods
Drinking water, surface water, pool water, water [E]	Detection and enumeration of microorganisms Membrane filtration method	Standardized methods
Environmental samples from areas of food production and food trade [E]	Enumeration of microorganisms Plate method	Standardized methods In-house test procedures
Food [E] **Feed and pet food** [E] **Environmental samples (food and feed production)** [E]	Presence of specific DNA for tested microorganism MDS System, isoPCR method (isothermal polymerase chain reaction)	In-house test procedures

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Microbiology Laboratory Tychy Goździków 1, 43-100 Tychy		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E]	Enumeration of microorganisms Colony count technique (spread plate method)	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E] **Drinking water, surface water, swimming pool water** [E]	Enumeration of microorganisms Colony count technique (pour plate method)	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E]	Detection of microorganisms Culturing method test-tube	Standardized methods In-house test procedures
	Detection of microorganism Culturing method test-tube with biochemical confirmation	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method with biochemical confirmation	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method with biochemical and serological confirmation	Standardized methods In-house test procedures
Food [E] **Animal feedstuffs** [E] **Environmental samples from areas of food production and food trade** [E]	Detection of microorganisms Culturing method with biochemical and microscopic confirmation	Standardized methods
Food [E] **Animal feedstuffs** [E]	Most probable number of microorganisms Tube fermentation technique MPN	Standardized methods
Drinking water, surface water, pool water, water [E]	Detection and enumeration of microorganisms Membrane filtration method	Standardized methods

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Environmental samples from areas of food production and food trade [E]	Enumeration of microorganisms Colony count technique	Standardized methods In-house test procedures
Paper, cardboard, paper and cardboard products [E] **Plastic and rubber products** [E] **Metal, glass and ceramics products** [E] **Wood and wood products** [E] **- swab from the surface limited with template** **- swab from surface unlimited with template**	Enumeration of microorganisms Colony count technique (pour plate method)	Standardized methods
	Enumeration of microorganisms Colony count technique (spread plate method)	PN-EN ISO 6888-1
	Detection of microorganisms Culturing method test-tube	PN-ISO 4831
	Detection of microorganisms Culturing method test-tube with biochemical confirmation	PN-ISO 7251
	Detection of microorganisms Culturing method with biochemical confirmation	PN-EN ISO 11290-1
	Detection of microorganisms Culturing method with biochemical and serological confirmation	PN-EN ISO 6579-1
Environmental samples from areas of food production and food Trade [E]	Most probable number of microorganisms Tube fermentation technique MPN	Standardized methods
Food [E] **Feed and pet food** [E] **Objects from food and feed production area** [E]	Presence of specific DNA for tested microorganism MDS System, isoPCR method (isothermal polymerase chain reaction)	In-house test procedures
Food [E] **Feed and pet food** [E] **Objects from food and feed production area** [E]	Presence of specific DNA for tested microorganism Real-Time PCR method, BAX system	In-house test procedures

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Cosmetics Microbiology Laboratory Tychy Goździków 1, 43-100 Tychy		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Paper, cardboard, paper and cardboard products [E]	Permeability of the antimicrobial components Culturing, diffusion method	PN-EN 1104:2019-02
Chemical disinfectants and antiseptics [E]	Effectiveness of disinfectants and antiseptics Hygienic hand washing method	PN-EN 1499:2013-07
	Effectiveness of disinfectants and antiseptics Rub method	PN-EN 1500:2013-07
Environmental samples from areas of cosmetics production and cosmetics trade [E] **Cosmetics** [E]	Enumeration of microorganisms Colony count technique (pour plate method)	Standardized methods In-house test procedures
Cosmetics [E]	Detection of microorganisms Culturing method test-tube	Standardized methods In-house test procedures
	Detection of microorganisms Culturing method test-tube with biochemical confirmation	Standardized methods In-house test procedures
	Effectiveness of antimicrobial protection of a cosmetic product Colony count technique (pour plate method)	PN-EN ISO 11930
Chemical products [E]	Enumeration of microorganisms Colony count technique (pour plate method)	Standardized methods
	Detection of microorganisms Culturing method test-tube with biochemical confirmation	Standardized methods
Environmental samples from areas of cosmetics production and cosmetics trade [E]	Enumeration of microorganisms Colony count technique	Standardized methods In-house test procedures
Chemical disinfectants and antiseptics [E]	Effectiveness of disinfectants and antiseptics Quantitative suspension method	Standardized methods
	Effectiveness of chemical disinfectant and antiseptics Test method on non-porous surfaces	PN-EN 13697

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Microbiology Laboratory Maków Mazowiecki ul. Przemysłowa 5, 06-200 Maków Mazowiecki		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Raw milk and non-cooked dairy products **Heat-processed milk and dairy products**	Number of aerobic mesophilic at 30℃ for 72h Petrifilm method	PB-421 ed. 1 of 07.02.2023 based on the manufacturer's instruction for 3M Petrifilm plates
	Number of Enterobacteriaceae at 37℃ for 24h Petrifilm method	PB-422 ed. 2 of 05.12.2024 based on the manufacturer's instruction for 3M Petrifilm plates
Food: **- Raw meat and raw meat products ready to be prepared (except poultry)** **- Ready-to-eat or ready-to-reheat meat products** **- Raw poultry and raw poultry products ready to be prepared** **- Ready-to-eat or ready-to-heat poultry products** **- Eggs and egg products (derivates)** **- Ready-to-eat or ready-to-reheat fish products** **- Fresh vegetables and fruits** **- Processed fruits and vegetables** **- Dried cereals, fruits, nuts, seeds and vegetables** **- Infant formula and infant cereals** **- Chocolate, confectionery and bread** **- Multi-component foods or meal components** **Feed and pet food** **Environmental samples (food and feed production):** **- environmental samples of defined surfaces** **- environmental samples of undefined surfaces, including the hands** **- washings**	Number of aerobic mesophilic at 30℃ for 48h Petrifilm method	PB-421 ed. 1 of 07.02.2023 based on the manufacturer's instruction for 3M Petrifilm plates
	Number of Enterobacteriaceae at 37℃ for 24h Petrifilm method	PB-422 ed. 2 of 05.12.2024 based on the manufacturer's instruction for 3M Petrifilm plates

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Environmental samples from food production areas as well as food trade [E]	Number of microorganism Colony count technique	Standardized methods In-house test procedure
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Number of microorganism Colony count technique (spread plate method)	Standardized methods
Food [E] **Animal feedstuffs** [E] **Environmental samples from cosmetics production areas as well as cosmetics trade** [E] **Water** [E]	Number of microorganism Colony count technique (pour plate method)	Standardized methods In-house test procedure
Environmental samples from food production areas as well as food trade [E]	Number of microorganism Colony count technique (pour plate method)	Standardized methods In-house test procedure
Food [E] **Animal feedstuffs** [E]	Presence of microorganisms Culturing method with biochemical confirmation	Standardized methods In-house test procedure
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade [E]	Presence of microorganisms Culturing method with biochemical confirmation	Standardized methods In-house test procedure

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Food [E] **Animal feedstuffs** [E] **Environmental samples from food and cosmetics production areas as well as food and cosmetics trade** [E]	Presence of microorganism Culturing method with biochemical and serological confirmation	Standardized methods In-house test procedure
Food [E]	Presence of microorganism Culturing method with biochemical and microscopic confirmation	Standardized methods In-house test procedure
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade [E]	Presence of microorganism Culturing method with biochemical and microscopic confirmation	Standardized methods In-house test procedure
Food [E] **Animal feedstuffs** [E]	Presence of microorganism Culturing method test-tube with biochemical confirmation	Standardized methods In-house test procedure
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade [E]	Presence of microorganism Culturing method test-tube with biochemical confirmation	Standardized methods In-house test procedure
Food [E]	Presence of microorganism Culturing method	In-house test procedure
	Most probable number Escherichia coli Tube fermentation technique MPN	PN-ISO 7251
Fruit and vegetable juices and concentrates [E]	Number of Alicyclobacillus spp probably spoilage Membrane filtration method with biochemical confirmation	IFU Method No. 12
Food [E]	Presence of pathogenic bacteria Fluorescence immunoenzymatic method (ELFA)	PB-420
Environmental samples [E]	Detection of pathogenic bacteria Fluorescence immunoenzymatic method (ELFA)	PB-420
Water [E]	Number of microorganism Membrane filtration method	Standardized methods

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Microbiology Laboratory Aleksandrów Łódzki ul. Ignacego Daszyńskiego 116, 95-070 Aleksandrów Łódzki		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Raw milk and non-cooked dairy products **Heat-processed milk and dairy products** **Raw meat and raw meat products** **ready to be prepared (except poultry)** **Ready-to-eat or ready-to-reheat meat products** **Raw poultry and raw poultry products ready to be prepared** **Ready-to-eat or ready-to-heat poultry products** **Eggs and egg products (derivates)** **Raw and ready-to-cook fish and seafoods (unprocessed)** **Ready-to-eat or ready-to-reheat fish products** **Fresh vegetables and fruits** **Processed fruits and vegetables** **Dried cereals, fruits, nuts, seeds and vegetables** **Infant formula and infant cereals** **Chocolate, confectionery and bread** **Multi-component foods or meal components** **Feed and pet food**	Number of Listeria monocytogenes at 37°C Colony count technique (spread plate method)	PN-EN ISO 11290-2:2017-07
	Number of Listeria spp. at 37°C Colony count technique (spread plate method)	PN-EN ISO 11290-2:2017-07
	Aerobic colony count at 30°C Colony count technique (spread plate method)	PN-EN ISO 4833-2:2013-12 PN-EN ISO 4833-2:2013-12/A1:2022-06
	Number of coagulase-positive staphylococci (Staphylococcus aureus and other strains) at 37°C Colony count technique (spread plate method)	PN-EN ISO 6888-1:2022-03 PN-EN ISO 6888-1:2022-3/A1:2024-02
	Number of presumptive Bacillus cereus at 30°C Colony count technique (spread plate method)	PN-EN ISO 7932:2005 PN-EN ISO 7932:2005/A1:2020-09
	Number of presumptive Pseudomonas spp. at 25°C Colony count technique (spread plate method)	PN-EN ISO 13720:2010
	Number of moulds and yeasts for matrix with a water activity greater than 0.95 Colony count technique (spread plate method)	PN-ISO 21527-1:2009
	Number of moulds and yeasts for matrix with a water activity lower or equal 0.95 Colony count technique (spread plate method)	PN-ISO 21527-2:2009
	Number of coagulase-positive staphylococci (Staphylococcus aureus and other species) at 37°C Colony count technique (pour plate method)	PN-EN ISO 6888-2:2022-03 PN-EN ISO 6888-2:2022-03/A1:2024-02
	Aerobic colony count at 30°C Colony count technique (pour plate method)	PN-EN ISO 4833-1:2013-12 PN-EN ISO 4833-1:2013-12/A1:2022-06
	Number of moulds and yeasts for matrix with a water activity greater than 0.95 Colony count technique (pour plate method)	PN-ISO 21527-1:2009
	Number of moulds and yeasts for matrix with a water activity lower or equal 0.95 Colony count technique (pour plate method)	PN-ISO 21527-2:2009
	Number of yeasts and moulds at 25°C Colony count technique (pour plate method)	PN-ISO 7954:1999
	Number of coliforms at 30°C Colony count technique (pour plate method)	PN-ISO 4832:2007
	Number of coliforms at 37°C Colony count technique (pour plate method)	PN-ISO 4832:2007
	Number of beta-glucuronidase-positive Escherichia coli at 44°C Colony count technique (pour plate method)	PN-ISO 16649-2:2004
	Number of Enterobacteracae at 37°C Colony count technique (pour plate method)	PN-EN ISO 21528-2:2017-08
	Presence of coliforms Culturing method test-tube	PN-ISO 4831:2007

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Raw milk and non-cooked dairy products **Heat-processed milk and dairy products** **Infant formula and infant cereals**	Number of Enterobacteriaceae at 30°C Colony count technique (pour plate method)	PN-EN ISO 21528-2:2017-08 IT-12/LAM ed. 1 of 09.12.2025
Raw milk and non-cooked dairy products **Heat-processed milk and dairy products** **Raw meat and raw meat products ready to be prepared (except poultry)** **Ready-to-eat or ready-to-reheat meat products** **Raw poultry and raw poultry products ready to be prepared** **Ready-to-eat or ready-to-heat poultry products** **Eggs and egg products (derivates)** **Raw and ready-to-cook fish and seafoods (unprocessed)** **Ready-to-eat or ready-to-reheat fish products** **Fresh vegetables and fruits** **Processed fruits and vegetables** **Dried cereals, fruits, nuts, seeds and vegetables** **Infant formula and infant cereals** **Chocolate, confectionery and bread** **Multi-component foods or meal components** **Feed and pet food**	Presence of Enterobacteriaceae Culturing method test-tube with biochemical confirmation	PN-EN ISO 21528-1:2017-08
	Presence of coagulase-positive staphylococci (Staphylococcus aureus and other species) Culturing method test-tube with biochemical confirmation	PN-EN ISO 6888-3:2004 PN-EN ISO 6888-3:2004/AC:2005
	Presence of Escherichia coli Culturing method test-tube with biochemical confirmation	PN-ISO 7251:2006
	Presence of Listeria monocytogenes Culturing method with biochemical confirmation	PN-EN ISO 11290-1:2017-07
	Presence of Listeria spp. Culturing method with biochemical confirmation	PN-EN ISO 11290-1:2017-07
	Presence of Salmonella spp. Culturing method with biochemical and serological confirmation	PN-EN ISO 6579-1:2017-04 PN-EN ISO 6579-1:2017-04/A1:2020-09
Raw meat and raw meat products ready to be prepared (except poultry) **Ready-to-eat or ready-to-reheat meat products** **Raw poultry and raw poultry products ready to be prepared** **Ready-to-eat or ready-to-heat poultry products** **Eggs and egg products (derivates)** **Raw and ready-to-cook fish and seafoods (unprocessed)** **Ready-to-eat or ready-to-reheat fish products** **Fresh vegetables and fruits** **Feed and pet food**	Presence of Salmonella Typhymurium Culturing method with biochemical and serological confirmation	PN-EN ISO 6579-1:2017-04 PN-EN ISO 6579-1:2017-04/A1:2020-09 ISO/TR 6579-3:2014
	Presence of Salmonella Enteritidis Culturing method with biochemical and serological confirmation	PN-EN ISO 6579-1:2017-04 PN-EN ISO 6579-1:2017-04/A1:2020-09 ISO/TR 6579-3:2014

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Environmental samples from food and cosmetics production areas as well as food trade: **- Environmental samples of defined surfaces** **- Environmental samples of undefined surfaces**	Aerobic colony count at 30°C Colony count technique (pour plate method)	PN-EN ISO 4833-1:2013-12 PN-EN ISO 4833-1:2013-12/A1:2022-06
	Number of Enterobacteriaceae at 37°C Colony count technique (pour plate method)	PN-EN ISO 21528-2:2017-08
	Number of beta-glucuronidase-positive Escherichia coli at 44°C Colony count technique (pour plate method)	PN-ISO 16649-2:2004
Environmental samples from areas of food production and food trade **- Environmental samples of defined surfaces** **- Environmental samples of undefined surfaces** **- swabs from carcasses of slaughter animals**	Presence of Listeria monocytogenes Culturing method with biochemical confirmation	PN-EN ISO 11290-1:2017-07
	Presence of Salmonella spp. Culturing method with biochemical and serological confirmation	PN-EN ISO 6579-1:2017-04 PN-EN ISO 6579-1:2017-04/A1:2020-09
Drinking water, water, pool water	Number of microorganisms at 36°C Colony count technique (pour plate method)	PN-EN ISO 6222:2004
	Number of microorganisms at 22°C Colony count technique (pour plate method)	PN-EN ISO 6222:2004
	Number of coliforms Membrane filtration method	PN-EN ISO 9308-1:2014-12 PN-EN ISO 9308-1:2014-12/A1:2017-04
	Number of Escherichia coli Membrane filtration method	PN-EN ISO 9308-1:2014-12 PN-EN ISO 9308-1:2014-12/A1:2017-04
	Number of fecal enterococci Membrane filtration method	PN-EN ISO 7899-2:2004
	Number of Clostridium perfringens (including spores) Membrane filtration method	PN-EN ISO 14189:2016-10
	Number of Pseudomonas aeruginosa Membrane filtration method	PN-EN ISO 16266:2009
	Number of the spores of sulfite reducing anaerobes (clostridia) Membrane filtration method	PN-EN 26461-2:2001
	Number of Legionella spp. Detection of Legionella in the sample volume test Martix A: Procedure 7; Medium C (GVPC) Procedure 5; Medium A (BCYE) Membrane filtration method	PN-EN ISO 11731:2017-08; PN-EN ISO 11731:2017-08/Ap1:2019-12

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Sensory Analysis Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Electrical products intended to come into contact with food, **Ceramic materials and products intended to come into contact with food,** **Glass materials and products,** **Paper, cardboard,** **Packaging materials and components intended to come into contact with food,** **Plastics and rubber products intended to come into contact with food,** **Materials for the production of packaging,** **Food storage products,** **Non-woven fabric, wooden products and components intended to come into contact with food**	Odour and taste transferred in direct contact Range: 0 – 4 Multicomparison test	DIN 10955:2024-01
Paper, cardboard	Odour and taste transferred in direct contact Range: 0 – 4 Multicomparison test	PN-EN 1230-1:2009 PN-EN 1230-2:2009
Drinking water, raw water, spring water, mineral water, table water, ice	Flavour Qualitative method	PB-201 ed. 2 of 17.10.2025
Drinking water, raw water, spring water, mineral water, table water, industrial water, technological water	Odour Qualitative method	
Food [E] **Agricultural products** [E] **Cosmetics and chemical products** [E]	Sensory attributes Simple descriptive test	Standardized methods In-house test procedures
Food [E]	Sensory attributes Scoring method	Standardized methods In-house test procedures

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Vitamin and Dioxin Analysis Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/ tested qualities/method**	**Reference document**
Food [E]	Vitamins content High-performance liquid chromatography method coupled with tandem mass spectrometry (HPLC-MS-MS)	In-house test procedures
Food [E] **Animal feedstuffs** [E]	Vitamins content Microbiological method with microorganism as a test organism	In-house test procedures
Food [E] **Agriculture products** [E] **Animal feedstuffs** [E]	Vitamins content High performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis), diode array detection (HPLC-DAD) and fluorescence detection (HPLC-FLD)	Standardized methods In-house test procedures
	Determination of dioxin and dioxin-like PCB and indicator PCBs Gas chromatography method with high resolution mass spectrometry (GC-HRMS)	PB-408
	Determination of dioxin-like PCB and indicator PCBs Gas chromatography method with tandem mass spectrometry detection (GC-MS-MS)	In-house test procedures
	Amino acid content High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	In-house test procedures

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Instrumental Analysis Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Water, drinking water	Polycyclic aromatic hydrocarbons (PAH) concentration Range: Benzo(b)fluoranthene (0,0020 - 0,020)µg/l Benzo(k)fluoranthene (0,0020 - 0,020) µg/l Benzo(a)pyrene (0,0025 - 0,020)µg/l Benzo(ghi)perylene (0,0040 - 0,020)µg/l Indeno(1,2,3-cd)pyrene (0,0040 - 0,020) µg/l High performance liquid chromatography method with fluorescence detection (HPLC-FLD)	PN-EN ISO 17993:2005
Animal and vegetable fats and oils	Free and bound 2-MCPD, free and bound 3-MCPD and glycidyl esters content Range: 2-monochloropropano-1,3-diol (2-MCPD) (0,15 – 2,5) mg/kg 3-monochloropropano-1,2-diol (3-MCPD) (0,15 – 2,5) mg/kg 3-monochloropropano-1,2-diol (3-MCPD) including glycidol (0,15 – 2,5) mg/kg Gas chromatography method with mass spectrometry (GC-MS) Glycidol content (calculated)	DGF C-VI 18 (10) Part A, Part B
Pastry goods and confectionery, Cereal and potato snacks	Free and bound 2-MCPD, free and bound 3-MCPD and glycidyl esters in extracted fat content Range: 2-monochloropropano-1,3-diol (2-MCPD) (0,15 – 2,5) mg/kg fat 3-monochloropropano-1,2-diol (3-MCPD) (0,15 – 2,5) mg/kg fat 3-monochloropropano-1,2-diol (3-MCPD) including glycidol (0,15 – 2,5) mg/kg fat Gas chromatography method with mass spectrometry (GC-MS) Per product (calculated) Glycidol content (calculated)	DGF C-VI 18 (10) Part A, Part B

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Food [E]	Food additives content High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	PN-EN 12856
	Polycyclic aromatic hydrocarbons (PAHs) content High-performance liquid chromatography method with fluorescence detection (HPLC-FLD)	PB-117/HPLC
	Nitrates and/or nitrites content High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	Standardized methods
	Acrylamide content Gas chromatography method with mass spectrometry (GC-MS)	In-house test procedures
	Concentration of polycyclic aromatic hydrocarbons (PAH) Gas chromatography method with tandem mass spectrometry detection (GC-MS-MS)	PB-506
	Tropane alkaloids content High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS)	In-house test procedures
	Pyrrolizidine alkaloids content High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS)	In-house test procedures
Agricultural products [E] **Food** [E] **Animal feedstuffs** [E]	Mycotoxins content High-performance liquid chromatography method with fluorescence detection (HPLC-FLD) spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	Standardized methods In-house test procedures
	Mycotoxins content High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS)	In-house test procedures
	Melamine and its analogues content High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS/MS)	In-house test procedures
Food [E] **Animal feedstuffs** [E]	Biogenic amins content High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	Standardized methods In-house test procedures

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Spectroscopy Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Water, drinking water, sewage, soil, sediments [E] **Plant growth substances** [E]	Concentration/ content of elements Atomic emission spectrometry method with inductively coupled plasma (ICP-OES)	Standardized methods In-house test procedures
Food [E] **Water, drinking water, sewage, soil, sediments** [E] **Plant growth substances** [E]	Concentration/ content of mercury Atomic absorption spectrometry method with cold-vapor generation (CVAAS)	Standardized methods In-house test procedures
Food [E] **Agriculture products** [E] **Animal feedstuffs** [E] **Water, drinking water, sewage, soil, sediments** [E]	Concentration/content of elements Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	Standardized methods In-house test procedures
Food [E] **Agriculture products** [E]	Concentration/content of elements Flame atomic absorption spectroscopy method (FAAS)	In-house test procedures
Food [E] **Agriculture products** [E] **Animal feedstuffs** [E]	Concentration / content of elements Atomic emission spectrometry method with inductively coupled plasma (ICP-OES)	In-house test procedures
	NaCl content (calculated)	
	P_2O_5 content (calculated)	
Food [E] **Agriculture products** [E] **Animal feedstuffs** [E]	Concentration/content of inorganic arsenic (sum of As(III) and As(V)) High-performance liquid chromatography with inductively coupled plasma mass spectrometry (HPLC-ICP-MS)	Standardized methods

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Classical Analysis Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Food concentrates **Meat and meat products** **Fish and fishery products and seafoods** **Ready-made culinary products,** **Poultry and poultry products** **Milk and dairy products** **Cereals and cereal products** **Fruits, vegetables, fruit and vegetable products and vegetable with meat products** **Foodstuffs for particular nutritional uses** **Sweets and sugar confectionery** **Herbal raw materials and products, spices** **Animal and vegetable fats and oils** **Dietary supplements and nutritional foods** **Animal feedstuffs**	Water activity Range: (0,100 – 1,000) Vapour pressure method	PN-ISO 21807:2005
Caseinates	Insolubility index (solubility) Range: (0,1 – 3,0) ml Centrifuge method	ISO 8156:2005 IDF-FIL 129:2005
Casein and caseinates	Scorched particles Range: A – D Filtration method	ISO 5739:2003 IDF-FIL 107:2003 PN-ISO 5739:2010
Alcoholic beverages: **beer**	Alcohol content Range: (0,2 – 10,0) % (v/v) Gravimetric method	PN-A-79093-2:2000+Ap1:2002
Fish and fishery products and seafood	Total volatile bases nitrogen (TVB-N) content Range: (4,0 – 150,0) mg N/100 g Titrimetric method	PN-A-86791:1995
Milk products: **buttermilk powder**	Insolubility index (solubility) Range: (0,1 – 3,0) ml Centrifuge method	ISO 8156:2005 IDF-FIL 129:2005
Dried milk	Insolubility index (solubility) Range: (0,1 – 3,0) ml Centrifuge method	ISO 8156:2005 IDF-FIL 129:2005 ADPI , Section 1, 2016
	Purity index (scorched particles) Range: A – D Filtration method	ADPI , Section 1, 2016
Animal and vegetable fats and oils	Insoluble impurities content Range: (0,01 – 0,5) % Gravimetric method	PN-EN ISO 663:2017-03 ISO 663:2017-03
	Anisidine value Range: 0,5 – 11,0 Spectrophotometric method	PN-EN ISO 6885:2016-04
Fruits and vegetables, **Fruit and vegetable preserves**	Sulphur dioxide content Range: (10 – 3000) mg/kg Titrimetric method	PN-90/A-75101/23+Az2:2002

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Meat and meat products	Collagen content Range: (0,8 – 10) % Connective tissue content (ratio of collagen to protein content in meat) Range: (3 – 30) % (calculated)	Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011
	Hydroxyproline content Range: (0,1 – 1,25) % Spectrophotometric method	PN-ISO 3496:2000 ISO 3496:1994
Animal and vegetable fats and oils	Peroxide value Range: (0,1 – 30) meq/kg Titrimetric method	PN-EN ISO 3960:2017-03 ISO 3960:2017-03
	Iodine value Range: (5 – 180) g/100 g Titrimetric method	PN-EN ISO 3961:2025-07
	Conventional mass per volume (litre „weight" in air) Range: (0,7000 – 1,0000) g/ml Gravimetric method	PN-EN ISO 6883:2017-03
	Free fatty acids content (acid value) Range: (0,01 – 8,0) % Acid value Range: (0,02 – 16,0) mg KOH/g Titrimetric method	PN-EN ISO 660:2021-03 ISO 660:2020
	Water content Range: (0,05 – 2,0) % (m/m) Potentiometric titration method	PN-EN ISO 8534:2017-03
Animal feedstuffs **Sharps**	Crude fibre content (fibre) Range: (0,2 – 25) % Gravimetric method	PN-EN ISO 6865:2002
	Starch content Range: (1,0 – 80) % Polarimetric method	ISO 6493:2000 PN-R-64785:1994
Milk products: **Dry whey**	Insolubility index (solubility) Range: (0,1 – 3,0) ml Centrifuge method	PB-26 ed. III of 04.02.2009
	Scorched particles Range: A – D Filtration method	PB-31 ed. III of 04.02.2009
Milk products: **Dry cream**	Insolubility index (solubility) Range: (0,1 – 3,0) ml Centrifuge method	ISO 8156:2005 IDF-FIL 129:2005
Milk and milk products, **Alcoholic beverages,** **Wine,** **Beer,** **Non-alcoholic beverages,** **Liquid food concentrates,** **Liquid dietary supplements,** **Oils**	Density Range: (0,8000 – 1,3200) g/cm^3 Oscillating method	PB-381 ed. 2 of 01.12.2021

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Spirits beverages (spirit, spirits drinks)	Density Range: (0,8000 – 1,1000) g/cm^3 Oscillating method	PN-A-79529-4:2005 p. 6.2
Fruit and vegetable products	Total extract content Range: (4,0 – 40,0) % (m/m) Refractometric method	PN-A-75101-02:1990+Az1:2002 p. 2
Non-alcoholic beverages	Total extract content Range: (0,2 – 12,0) % (m/m) Refractometric method	PN-A-79033:1985 p.3.6.1
Sugar confectionery	Alcohol content Range: (0,05 – 5,5) g / 100g Pycnometric method	PN-A-88026:1981
Vegetable and fruits juices, nectars	Relative density 20°C/20°C Range: (1,0000 – 1,1000) g/cm^3 Gravimetric method	PN-EN 1131:1999
	Density Range: (1,0000 – 1,1000) g/cm^3 Gravimetric method	PN-EN 1131:1999
	Dissolved substances content Total extract content Range: (5,0 – 70,0) % (m/m) Refractometric method	PN-EN 12143:2000
Bioethanol **Spirits**	Acidity (as acetic acid) Range: (0,003 – 0,030) g/l ethanol 100 % Titrimetric method	PN-A-79528-7:2001
Cold meat **Ready-made culinary products,** **Vinegar** **Fruit juices (including concentrates)** **Non-carbonated soft drinks** **Carbonated soft drinks** **Syrups**	Ethanol content Range: (0,010 – 1,0) g/100g Spectrophotometric method	PB-564 ed. 1 of 28.10.2024
Milk	Nitrites and nitrates content Range: nitrites (0,10 – 40,0) mg/kg nitrates (1,0 – 40,0) mg/kg Continuous Flow Analysis (CFA) with spectrophotometric detection	PB-602 ed. 1 of 23.04.2026
	Salt content (calculated)	
Dairy products	Nitrites and nitrates content Range: nitrites (0,50 – 200) mg/kg nitrates (5,0 – 200) mg/kg Continuous Flow Analysis (CFA) with spectrophotometric detection	PB-602 ed. 1 of 23.04.2026
	Salt content (calculated)	

Subject of testing/product	Type of activity/tested qualities/method	Reference document
Meat and meat products	Nitrites and nitrates content Range: nitrites (1,0 – 250) mg/kg nitrates (5,0 – 250) mg/kg Continuous Flow Analysis (CFA) with spectrophotometric detection	PB-602 ed. 1 of 23.04.2026
	Salt content (calculated)	
Agricultural products **Fruits, vegetables and fruit and vegetable preserves** **Spices**	Nitrites and nitrates content Range: nitrites (1,0 – 500) mg/kg nitrates (5,0 – 8000) mg/kg Continuous Flow Analysis (CFA) with spectrophotometric detection	PB-602 ed. 1 of 23.04.2026
	Salt content (calculated)	
Cereals and cereal products **Animal feedstuffs**	Nitrites and nitrates content Range: nitrites (1,0 – 250) mg/kg nitrates (5,0 – 500) mg/kg Continuous Flow Analysis (CFA) with spectrophotometric detection	PB-602 ed. 1 of 23.04.2026
	Salt content (calculated)	
Food [E]	pH Potentiometric method	Standardized methods In-house test procedures
	Nitrites and nitrates content Spectrophotometric method	Standardized methods In-house test procedures
	Starch content Spectrophotometric method	In-house test procedures

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Nutrtion Analysis Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Food concentrates **Cereal crisps**	Chlorides content Range: (0,1 – 40,0) % Titrimetric method	PN-A-79011-7:1998
Milk products: **buttermilk powder**	Acidity Range: (0,01 – 0,2) % Titrimetric method	ADPI , Section 1, 2016
Dried milk	Acidity Range: (0,08 – 0,2) % Titrimetric method	ADPI , Section 1, 2016
	Acidity Range: from 8,0 ml 0,1 mol/l NaOH/10 g non-fat dry matter to 20 ml 0,1 mol/l NaOH/10 g non-fat dry matter Titrimetric method	PN-ISO 6091:2012
Fruits and vegetables, **Fruit and vegetable preserves**	Total acidity as particular acid content Range: (0,1 – 2,5) % (m/m) Titrimetric method	PN-90/A-75101/04+Az1:2002
Meat and meat products	Meat content (calculated)	PB-282 ed. 3 of 21.01.2025
	Salt content Range: (0,10 **–** 10,00) % Titrimetric method	PN-73/A-82112+Az1:2002
Fish and fishery products	Salt content Range: (0,1 – 8,0) % Titrimetric method	PN-74/A-86739 PN-85/A-82100
	Total acidity Range: (0,5 – 4,0) % Titrimetric method	PN-74/A-86746 PN-85/A-82100
Milk products: **Dry whey**	Acidity Range: (0,05 – 2,0) % Titrimetric method	PB-25 ed. III of 04.02.2009
Milk products: **Cheese**	Chlorides content Range: (0,20 – 6,00) % Potentiometric method	PN-EN ISO 5943:2007 ISO 5943:2006 IDF-FIL 88:2006
Milk products: **Cream and sour cream**	Acidity Range: (0,2 – 30,0) °SH Titrimetric method	PN-78/A-86028+Az2:2002
Ready-made culinary products **Frozen culinary products**	Sodium chloride content Range: (0,5 – 5,0) % Titrimetric method	PN-85/A-82100

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Food [E] **Animal feedstuffs** [E]	Fat content Gravimetric method	Standardized methods In-house test procedures Legislation
	Kjeldahl nitrogen content Protein content Titrimetric method	Standardized methods In-house test procedures
	Dietary fibre content Gravimetric method	Standardized methods In-house test procedures
Food [E]	Energy Carbohydrates content (calculated)	Legislation
Agriculture products [E] **Animal feedstuffs** [E] **Food** [E]	Cholesterol content Gas chromatography method with flame ionization detection (GC-FID)	Standardized methods In-house test procedures
	Fatty acids content Gas chromatography method with flame ionization detection (GC-FID) Sum (calculated)	Standardized methods In-house test procedures
Food [E]	Sugar alcohols content High-performance anion exchange chromatography method with pulsed amperometry detection (HPIC-PAD)	PB-429
Food [E] **Objects from food production area** [E] **Animal feedstuffs** [E]	Sugars content High-performance anion exchange chromatography method with pulsed amperometry detection (HPIC-PAD)	In-house test procedures
Food [1)] **Agriculture products** [E] **Animal feedstuffs** [E]	Water and volatile matter content (dry matter) Gravimetric method	Standardized methods In-house test procedures Legislation
	Ash content Gravimetric method	Standardized methods In-house test procedures Legislation

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Non-Food and Packaging Laboratory Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Household chemistry products: liquids and gels, powders, pastes, liquid soaps, shampoos	Dry residue Range: (0,10 – 60,0) % (m/m) Gravimetric method	PB-107 ed. I of 01.09.2010
	Dry organic residue Range: (0,10 – 60,0) % (m/m) (calculated)	
	Chloride content as NaCl Range: (0,1 – 10,0) % (m/m) Titrimetric method	PB-108 ed. I of 01.09.2010
	pH Range: 1,0 – 12,0 Potentiometric method	PB-109 ed. I of 01.09.2010
	pH of 1% water solution Range: 2,0 – 12,0 Potentiometric method	
Household chemistry products and cosmetics: - liquids and gels, powders, pastes, liquid soaps, shampoos	Anionic-active matter content Range: (0,50 – 30,00) % (m/m) Titrimetric method	PN-ISO 2271:2000
Household chemistry products and cosmetics: - liquids and gels, liquid soaps, shampoos	Density Range: (0,850 – 1,350) g/cm^3 Oscillating method	PB-489 ed. I of 15.10.2021
Paper and cardboard materials and articles Plastic materials and articles	Colour fastness Range: (1 – 5) Visual method	PN-EN 648:2019-03
Paper and cardboard materials and articles	Grammage Range: (25,0 – 1000) g/m^2 Gravimetric method	PN-EN ISO 536:2020-08
	Determination of moisture content Range: (0,05 – 60,0) % Gravimetric method	PN-EN ISO 287:2018-02
	Colour fastness Range: (1 – 5) Visual method	PN-EN 646:2019-03

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Paper and cardboard materials and articles and water extracts	Determination of formaldehyde Range: (1,0 – 30) mg/kg (0,0010 – 3,0) mg/dm^2 Spectrophotometric method	PN-EN 1541:2003
Paper, fibre and cardboard materials and articles and water extracts	Determination of pentachlorophenol Range: (0,05 – 0,5) mg/kg Gas chromatography method with mass spectrometry (GC-MS)	PN-EN ISO 15320: 2011
Tissue paper and tissue products	Grammage Range: (15,0 – 85,0) g/m^2 Gravimetric method	PN-EN ISO 12625-6:2017-03
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Determination of formaldehyde Range: (1,5 – 30) mg/kg of food simulant Spectrophotometric method with 2,4–pentanodione	CEN/TS 13130-23:2005
	Specific migration of formaldehyde (calculated)	
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Determination of vinyl acetate Range: (1,2 – 24,0) mg/kg of food simulant Headspace gas chromatography method with flame ionization detection (HS-GC-FID)	CEN/TS 13130-9:2005
	Specific migration of vinyl acetate (calculated)	
	Determination of maleic anhydride (as maleic acid) Range: (3,0 – 60,0) mg/kg of food simulant High performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis)	CEN/TS 13130-24:2005
	Specific migration of maleic anhydride (as maleic acid) (calculated)	

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Subject of testing/product	Type of activity/ tested qualities/method	Reference document
Plastic materials and articles intended to come into contact with food **Rubber materials and articles intended to come into contact with food** **Food simulants after migration**	Determination of N,N-bis(2-hydroxyethyl) alkil(C8-C18)amine Range: (0,4 - 5) mg/kg of food simulant High performance liquid chromatography method with tandem mass spectrometry (HPLC-MS-MS)	PB-341/LC ed. I of 12.09.2016
	Specific migration of N,N-bis(2-hydroxyethyl) alkil(C8-C18)amine (calculated)	
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Determination of 2,6-di-tert-butyl-p-cresol (BHT) Range: (1-25) mg/kg of food simulant Gas chromatography method with mass spectrometry (GC-MS)	PB-385 ed. I of 26.10.2018
	Specific migration of 2,6-di-tert-butyl-p-cresol (BHT) (calculated)	
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Determination of 9,9-bis[methoxymethyl]-9H-fluorene Range: (0,05 – 5,0) mg/kg of food simulant Gas chromatography method with mass spectrometry (GC-MS)	PB-367 ed. II of 21.02.2018
	Specific migration of 9,9-bis[methoxymethyl]-9H-fluorene (calculated)	
	Determination of acetaldehyde Range: (0,5-20) mg/kg of food simulant Headspace gas chromatography method with flame ionization detection (HS-GC-FID)	PB-395 ed. I of 15.05.2019
	Specific migration of acetaldehyde (calculated)	
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Determination of 1,3,5-tris (3,5-di-tertbutyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H, 3H, 5H)-trione Range: (0,5-15) mg/kg of food simulant High performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis)	PB-300 ed. I of 10.08.2019
	Specific migration of 1,3,5-tris (3,5-di-tertbutyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H, 3H, 5H)-trione (calculated)	

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Subject of testing/product	Type of activity/ tested qualities/method	Reference document
Plastic materials and articles intended to come into contact with food **Food simulants after migration**	Overall migration into vegetable oils Range: (2,0 – 100,0) mg/dm^2 Gravimetric method	PN-EN 1186-2:2022-12
Toys, materials for toys, plastics	Determination of formaldehyde in extract Range: (0,5 – 5,0) mg/kg Spectrophotometric method	PN-EN-71-11:2007
Toys, materials for toys made of textiles, textiles	Determination of formaldehyde Range: (16 – 3500) mg/kg Spectrophotometric method	PN-EN ISO 14184-1:2011
Electrical and electronic equipment and its polymer, textile, paper and electronic components, the materials used in the manufacture of electrical and electronic equipment and packaging	Determination of elements Range: Al (50 – 3000) mg/kg Sb (5,0 – 3000) mg/kg As (5,0 – 3000) mg/kg Ba (50 – 3000) mg/kg B (50 – 3000) mg/kg Cd (5,0 – 3000) mg/kg Cr $_{total}$ (5,0 – 3000) mg/kg Co (5,0 – 3000) mg/kg Cu (50 – 3000) mg/kg Pb (5,0 – 3000) mg/kg Mn (50 – 3000) mg/kg Hg (5,0 – 3000) mg/kg Ni (5,0 – 3000) mg/kg Se (5,0 – 3000) mg/kg Sr (50 – 3000) mg/kg Sn $_{total}$ (50 – 3000) mg/kg Zn (50 – 3000) mg/kg Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	PN-EN 62321-4:2014-08 +A1:2017-12 PN-EN 62321-5:2014-08

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Subject of testing/product	Type of activity/ tested qualities/method	Reference document
Plastic materials and articles **Paper and cardboard materials and articles**	Determination of elements Al (50 –500) mg/kg Sb (5,0 –500) mg/kg As (5,0 – 500) mg/kg Ba (50 – 500) mg/kg B (50 – 500) mg/kg Cd (0,5 – 500) mg/kg Cr (total) (2,0 – 500) mg/kg Co (5,0 – 500) mg/kg Cu (50 – 500) mg/kg Pb (2,0 – 500) mg/kg Mn (50 – 500) mg/kg Hg (0,5 – 50) mg/kg Ni (5,0 – 500) mg/kg Se (5,0 – 500) mg/kg Sr (50 – 500) mg/kg Sn (total) (50 – 500) mg/kg Zn (50 – 500) mg/kg Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	PB-233/ICP ed. II of 15.11.2017
Plastic materials and products, multi-layer materials, viscose films	Oxygen permeability Range: (0,005 – 2000) $cm^3/(m^2 \cdot 24/h)$ Coulometric sensor method	ASTM D 3985-24
	Oxygen permeability Range: (0,005 – 2000) $cm^3/(m^2 \cdot 24/h)$ Coulometric sensor method	ASTM F 1927-20
	Water vapour permeability Range: (0,005 – 1000) $cm^3/(m^2 \cdot 24/h)$ Infrared sensor method	ASTM F 1249-25
Plastic: single layer, multi-layer, printed **single layer, printed multi-layer materials and articles** **Paper and board materials and articles**	Screening of non-intentionally added substances (NIAS), determination in food simulants: MPPO (Tenax), 95 % ethanol, 50 % ethanol, 20 % ethanol, 10 % ethanol, 3 % acetic acid Range: (0,01 – 60) mg/kg Liquid chromatography method with Quadrupole Time-of-Flight Mass Spectrometry (LC-QTOF-MS)	PB-502 ed. 3 of 30.10.2023
Paper and cardboard materials and articles and water extracts	Determination of glyoxal Range: (12 – 190) mg/kg (0,0019 – 1,9) mg/dm^2 Spectrophotometric method	DIN 54603:2008-08
	Epichlorohydrin hydrolysis products content Range: 1,3-dichloro-2-propanol (1,3-DCP) (1,0 - 25) µg/l 3-monochloro-propane-1,2-diol (3-MCPD) (5,0 - 70) µg/l Gas chromatography method with mass spectrometry (GC-MS)	PB-572 ed 1 z of 29.08.2023

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Subject of testing/product	Type of activity/ tested qualities/method	Reference document
Metal materials and articles	Release of elements to food simulant – citric acid 0,5% Range: Mg (0,050 – 1000) mg/kg Al (0,050 – 200) mg/kg Sb (0,005 – 10) mg/kg Co (0,005 – 10) mg/kg Mo (0,005 – 10) mg/kg Cr (0,050 – 100) mg/kg Mn (0,050 – 100) mg/kg Fe (0,050 – 500) mg/kg Ni (0,005 – 10) mg/kg Cu (0,005 – 10) mg/kg Zn (0,050 – 100) mg/kg Ag (0,005 – 10) mg/kg Sn (0,050 – 1000) mg/kg Ti (0,005 – 10) mg/kg V (0,001 – 10) mg/kg Ba (0,050 – 100) mg/kg Be (0,001 – 10) mg/kg Pb (0,005 – 10) mg/kg Li (0,005 – 10) mg/kg Hg (0,001 – 0,005) mg/kg Tl (0,001 – 1,0) mg/kg As (0,001 – 10) mg/kg Cd (0,001 – 10) mg/kg Zr (0,050 – 100) mg/kg Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	PB-298 ed. 2 of 07.08.2023
Metal materials and articles	Release of elements to food simulant – water (EN 16889) Range: Al (0,050 – 200) mg/kg Sb (0,005 – 10) mg/kg Co (0,005 – 10) mg/kg Mo (0,005 – 10) mg/kg Cr (0,050 – 100) mg/kg Mn (0,050 – 100) mg/kg Fe (0,050 – 500) mg/kg Ni (0,005 – 10) mg/kg Cu (0,005 – 10) mg/kg Zn (0,050 – 100) mg/kg Ag (0,005 – 10) mg/kg Sn (0,050 – 1000) mg/kg Ti (0,005 – 10) mg/kg V (0,001 – 10) mg/kg Ba (0,050 – 100) mg/kg Be (0,001 – 10) mg/kg Pb (0,005 – 10) mg/kg Li (0,005 – 10) mg/kg Hg (0,001 – 0,005) mg/kg Tl (0,001 – 1,0) mg/kg As (0,001 – 10) mg/kg Cd (0,001 – 10) mg/kg Zr (0,050 – 100) mg/kg Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	PB-298 ed. 2 of 07.08.2023

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of alkylphenols High performance liquid chromatography method with fluorescence detection (HPLC-FLD)	Standardized methods In-house test procedures
	Specific migration (calculated)	
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Overall migration into food simulants Gravimetric method	Standardized methods In-house test procedures
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of monomers, additives, impurities and polimer production aids High performance liquid chromatography method with spectrophotometric detection (HPLC-UV/Vis) and diode array detection (HPLC-DAD)	Standardized methods In-house test procedures
	Specific migration (calculated)	
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of volatile and semivolatile monomers, additives, impurities and polimer production aids Headspace gas chromatography method with flame ionization detection (HS-GC-FID), gas chromatography method with flame ionization detection (GC-FID)	Standardized methods In-house test procedures
	Specific migration (calculated)	
Plastic and rubber materials and articles [E] **Paper and cardboard materials and articles** [E]	Determination of polycyclic aromatic compounds and their derivatives Gas chromatography method with mass spectrometry (GC-MS)	Standardized methods In-house test procedures
Plastic and rubber materials and articles [E] **Paper and cardboard materials and articles** [E] **Toys** [E]	Determination of monomers, additives, impurities and polimer production aids Gas chromatography method with tandem mass spectrometry (GC-MS-MS)	Standardized methods In-house test procedures
Plastic and rubber materials and products [E] **Paper and cardboard materials and products** [E] **Candles, paraffin, waxes** [E]	Determination of volatile organic compounds and organic solvents Headspace gas chromatography method with flame ionization detection (HS-GC-FID), headspace gas chromatography method with mass spectrometry detection (HS-GC-MS)	Standardized methods In-house test procedures
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of elements Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	Standardized methods In-house test procedures
	Specific migration (calculated)	
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of additives, impurities and polimer production aids Spectrophotometric method	In-house test procedures
	Specific migration (calculated)	

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Subject of testing/produt	Type of activity/tested qualities/method	Reference document
Toys [E]	Elements migration Mass spectrometry method by ionizing with inductively coupled plasma (ICP-MS)	Standardized methods
Toys [E] **Plastic materials and articles** [E] **Paper and cardboard materials and articles** [E]	Determination of monomers, additives, impurities and polimer production aids Liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS)	In-house test procedures
Electrical and electronic equipment and its polymer, textile, paper and electronic components, **the materials used in the manufacture of electrical and electronic equipment and packaging** [E] **Toys** [E]	Determination of chromium (VI) High-performance liquid chromatography with ionizing with inductively coupled plasma mass spectrometry method (HPLC-ICP-MS)	Standardized methods
Toys [E] **Materials and articles in contact with food and other packaging materials and articles and water extracts** [E]	Determination of additives, impurities and polimer production aids Liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS)	Standardized methods In-house test procedures
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of additives, impurities and polimer production aids High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS) Specific migration (calculated)	In-house test procedures
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of additives, impurities and polimer production aids Gas chromatography method with tandem mass spectrometry detection (GC-MS-MS) Specific migration (calculated)	In-house test procedures
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of mineral oils (MOSH, MOAH) Gas chromatography method with flame ionization detection coupled with high performance liquid chromatography method (HPLC-GC-FID) Specific migration (calculated)	PB-396
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Screening of non-intentionally added substances (NIAS), determination Gas chromatography method with mass spectrometry detection and flame ionization detector (GC-MS-FID) Specific migration (calculated)	In-house test procedures

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Materials and articles in contact with food and other packaging materials and articles [E] **Food simulants after migration** [E]	Determination of additives, impurities and polimer production aids Liquid chromatography method with Quadrupole Time-of-Flight Mass Spectrometry (LC-QTOF-MS)	In-house test procedures
	Specific migration (calculated)	
Plastic materials and articles [E] **Paper and cardboard materials and articles** [E]	Determination of mineral oils (MOSH/POSH, MOAH) Gas chromatography method with flame ionization detection coupled with high performance liquid chromatography method (HPLC-GC-FID)	In-house test procedures

E – Flexible scope of accreditation. Flexible scope includes the elements indicated in document DA-10 for the scope of accreditation of testing laboratories.

A list of activities conducted under the flexible scope of accreditation shall be available on request by the accredited body.

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Environmental Analysis Laboratory Gdynia Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Water, sewage	Phenol index Range: (0,010 – 5,0) mg/l Spectrophotometric method	PN-ISO 6439:1994
	Kjeldahl nitrogen concentration Range: (0,50 – 1000) mg/l Titrimetric method	PN-EN 25663:2001
	Ammonium nitrogen concentration Range: (0,50 – 1000) mg/l Titrimetric method	PN-ISO 5664:2002
	Total nitrogen concentration (calculated)	PB-102 ed. IV of 09.02.2022
	Chromium (VI) content Range: (0,01 – 5,0) mg/kg Spectrophotometric method	NANOCOLOR no. 91825 test Instruction ed. of 03.2021
Water, drinking water, sewage	pH Range: 3,0 – 10,0 Potentiometric method	PN-EN ISO 10523:2012
	Electrical conductivity Range: (10 – 3000) µS/cm Conductometric method	PN-EN 27888:1999
	Nitrates concentration Range: (0,20 – 70) mg/l NO_3^- Nitrate nitrogen concentration Range: (0,045 – 15,8) mg/l N-NO_3 Spectrophotometric method	PN-82/C-04576/08
	Nitrites concentration Range: (0,01 – 1,6) mg/l NO_2^- Nitrite nitrogen concentration Range: (0,003 – 0,48) mg/l N-NO_2 Spectrophotometric method	PN-EN 26777:1999
	Total Suspended solids Range: (2,0–4000) mg/l Gravimetric method	PN-EN 872:2007+Ap1:2007
	Biochemical oxygen demand (BOD_5) Range: (1 – 6000) mg/l O_2 Optical method	PN-EN ISO 5815-1:2019-12
	Total dissolved solids Range: (10 – 10000) mg/l Gravimetric method	PN-EN 15216:2022-03
	Content of petroleum ether extractable substances Range: (5 – 1000) mg/l Gravimetric method	PB-196 ed. II of 10.05.2018
	Chloride concentration Range: (5,0 – 10000) mg/l Titrimetric method	PN-ISO 9297:1994
	Phosphate concentration Range: (0,03 – 15,3) mg/l Total phosphorus concentration Range: (0,05 – 5,0) mg/l Spectrophotometric method	PB-127 ed. I of 15.06.2011 based on MERCK 1.14848.0001 test
	Sulphate concentration Range: (5,0 – 250) mg/l Spectrophotometric method	PB-128 ed. I of 15.06.2011 based on the MERCK 1.14548.0001 test
	Free and bound cyanide concentration Range: (0,005 – 0,500) mg/l Spectrophotometric method	PB-129 ed. I of 15.06.2011 based on MERCK 1.09701.0001 test

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Water, drinking water, sewage	Total organic carbon (TOC) Range: (1,50 – 1000) mg/l Infrared spectrometry method (IR)	PN-EN 1484:1999
	Anionic detergents concentration (anionic surface acting agents) Range: (0,05 – 50,0) mg/l Spectrophotometric method	PN-EN 903:2002
	Hydrocarbon oil index Range: (0,1-100) mg/l Gas chromatography method with mass spectrometry (GC-MS)	PN-EN ISO 9377-2:2003
	Chemical oxygen demand- Cr Range: (5,00 – 10000) mg/l O_2 Spectrophotometric method	PN-ISO 15705:2005
	Organochlorine pesticides concentration Range: HCB (0,010 - 0,2) µg/l α–HCH (0,010 - 0,2) µg/l β–HCH (0,010 - 0,2) µg/l γ–HCH (0,010 - 0,2) µg/l δ–HCH (0,010 - 0,2) µg/l heptachlor (0,010 - 0,2) µg/l heptachlor epoxide (0,010 - 0,2) µg/l aldrin (0,010 - 0,2) µg/l dieldrin (0,010 - 0,2) µg/l endrin (0,010 - 0,2) µg/l isodrin (0,010 - 0,2) µg/l cis-chlordane (0,010 - 0,2) µg/l trans-chlordane (0,010 - 0,2) µg/l op'–DDE (0,010 - 0,2) µg/l pp'–DDE (0,010 - 0,2) µg/l op'–DDD (0,010 - 0,2) µg/l pp'–DDD (0,010 - 0,2) µg/l op'–DDT (0,010 - 0,2) µg/l pp'–DDT (0,010 - 0,2) µg/l Gas chromatography method with mass spectrometry (GC-MS) Sum of organochlorine pesticides (calculated)	PN-EN ISO 6468:2002
	Anionic detergents concentration (anionic surface acting agents) Range: (0,10 – 20) mg/l Spectrophotometric method	PB-379 ed. I of 10.05.2018 based on MERCK 1.02552.0001 cuvette test
	Non-ionic detergents concentration (non-ionic surface acting agents, non-ionic surfactants) Range: (0,3 – 50) mg/l Spectrophotometric method	PB-477 ed. I of 01.04.2021 based on NANOCOLOR 985047 test
	Sulphides concentration Range: (0,05 – 1,5) mg/l Spectrophotometric method	PB-476 ed. I of 01.04.2021 based on MERCK 1.14779.0001 test
	Formaldehyde concentration Range: (0,1 – 8,0) mg/l Spectrophotometric method	PB-478 ed. I of 23.06.2021 based on NANOCOLOR 985041 test

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Subject of testing/product	Type of activity/ tested qualities/method	Reference document
Water, drinking water	Permanganate index Range: (0,50 – 10) mg/l O_2 Titrimetric method	PN-EN ISO 8467:2001
	Ammonium ion concentration Range: (0,06 – 3,86) mg/l Spectrophotometric method	PB-124 ed. I of 15.06.2011 based on MERCK 1.14752.0001 test
	Colour Range: (5 – 70) mg/l Pt Spectrophotometric method	PN-EN ISO 7887:2012 method C +Ap1:2015-06
	Turbidity Range: (0,20 - 100) NTU Nephelometric method	PN-EN ISO 7027-1:2016-09
	Total alkalinity Range: (0,40 – 20) mmol/l Bicarbonates Range: (24,4 – 1220) mg/l HCO_3^- Titrimetric method	PN-EN ISO 99631:2001 +Ap1:2004
	Bromate concentration Range: (3 - 20) µg/l Ion chromatography method with spectrophotometric detection (IC-UV/Vis)	PN-EN ISO 11206:2013-07
	Acrylamide concentration Range: (0,05 – 5,0) µg/l High-performance liquid chromatography method coupled with tandem mass spectrometry (LC-MS/MS)	PB-403 ed. I of 25.06.2020
	Organophosphorus pesticides concentration: Azinphos-ethyl, Chlorfenvinphos, Bromophos-ethyl, Bifenthrin, Azinphos-methyl, Chlorpyrifos-ethyl, Chlorpyrifos-methyl, Cyfluthrin, Cypermethrin, Deltamethrin, Demeton-S-methyl, Diazinon, Diflufenican, Dimethoate, Ethion, Ethoprophos, Fenitrothion I, Fenpropathrin, Fensulfothion, Fenthion, Fenvalerate, Fluopicolide, Phorate, Phosalone, Phosmet, Captan, Carbophenothion, lambdaCyhalothrin, Malaoxon, Malathion, Mefenpyr-diethyl, Mecarbam, Methidathion, Metribuzin, Mevinphos, Oxyfluorfen, Parathionethyl, Parathion-methyl, Permethrin, Pirimiphos-ethyl, Pirimiphos-methyl, Procymidone, Propetamphos, Prothiofos, Pyrazophos, Triadimefon, Triadimenol, Triazophos, Trifloxystrobin Range: (0,05– 0,5) µg/l Gas chromatography method with mass spectrometry (GC-MS) Sum of organophosphorus pesticides (calculated)	PN-EN 12918:2004

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Sewage	Suspended matters suspension Range: (1,0 -100) ml/l Volumetric method	PN-72/C-04559/03
Sewage sludge [o)] **Waste group code: 19 08 05**	pH - in H_2O Range: 3,0 – 10,0 Potentiometric method	PN-EN ISO 10390:2022-09
Mineral soil	Assimilated phosphorus as P_2O_5 content Range: (1,0 – 50) mg/100 g Spectrophotometric method	PN-R-04023:1996
Soil, ground	pH - in H_2O pH - in KCl Range: 3,0 – 10,0 Potentiometric method	PN-EN ISO 10390:2022-09
	Granulometric composition in particle size range (0,0002 - 2,000) mm by fraction range: (0,5 – 99,5) % Laser diffraction method	PN-Z-19012:2020-02
	Filtration factor – water permeable Range: (0,01 ≤ d20 < 2 mm) (calculated based on the grading curve - the USBCS formula)	PB-483 ed. II of 23.05.2022
Soil, ground **Sewage sludge** [o)] **Waste group code: 19 08 05**	Dry mass content / water content Range: (1,0 – 99,0) % Gravimetric method	PN-EN 15934:2013-02 method A
Soil, **Sewage sludge** [o)] **Waste group code: 19 08 05**	Ammonium nitrogen content Range: (0,05 – 2,00) % Titrimetric method	PB -178 ed. I of 14.08.2012
	Kjeldahl nitrogen content Range: (0,05 – 8,00) % Titrimetric method	PN-EN 13342:2002
Soil, ground **Sewage sludge** [o)] **Waste group code: 19 08 05**	Loss on ignition of dry mass (LOI) / Residue on ignition Range: (0,5 – 99,5) % Gravimetric method	PN-EN 15935:2022-01
Soil	Hydrocarbon oil index, including sum of C12-C35 hydrocarbons Range: (30-3000) mg/kg of dry matter Gas chromatography method with mass spectrometry (GC-MS)	PN-EN ISO 16703:2011
Plant cultivation aids: **- soil improvement agents (soil amendments)**	Dry mass content / water content Range: (1,0 – 99,0) % Gravimetric method Water content (calculated)	PN-EN 15934:2013-02 method A
	Loss on ignition of dry mass (LOI) / Residue on ignition Range: (1,0 – 99,0) % Gravimetric method	PN-EN 15935:2022-01
	pH Range: (4,0 – 10,0) Potentiometric method	PN-EN 12176:2004
	Kjeldahl nitrogen content Range: (0,5 – 8,00) % Titrimetric method	PN-EN 13342:2002

[o)] Waste codes given according to Minister of Climate Regulation on the waste catalogue.

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Water, drinking water, sewage [E]	Concentration of halogenated organic compounds Purge&Trap gas chromatography method with mass spectrometry detection (P&T-GC-MS)	Standardized methods In-house test procedures
	Anions concentration [1), 2)] Ion chromatography with conductometric detection (IC-CD) method Sum (calculated)	Standardized methods
Water, drinking water [E]	Cations concentration Ion chromatography with conductometric detection (IC-CD) method Sum (calculated)	Standardized methods

[O)] Waste codes given according to Minister of Climate Regulation on the waste catalogue.

E – Flexible scope of accreditation. Flexible scope includes the elements indicated in document DA-10 for the scope of accreditation of testing laboratories.

A list of activities conducted under the flexible scope of accreditation shall be available on request by the accredited body.

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Environmental Analysis Laboratory Zgierz ul. Aleksandrowska 61A, 95-100 Zgierz		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Water **Drinking water** **Sewage**	pH Range: 3,0 – 10,0 Potentiometric method	PN-EN ISO 10523:2012
	Electrical conductivity Range: (10 – 3000) µS/cm Conductometric method	PN-EN 27888:1999
	Nitrates concentration Range: (0,3 – 60) mg/l Nitrate nitrogen concentration Range: (0,068 – 13,5) mg/l Spectrophotometric method	PB-433 ed. I of. 01.06.2021 based on HACH 8039 method
	Nitrites concentration Range: (0,050 – 1,00) mg/l Nitrite nitrogen concentration Range: (0,02 – 0,300) mg/l Spectrophotometric method	PB-461 ed. I of 01.06.2021 based on HACH 8507 method
	Sulphate (VI) concentration Range: (2 – 300) mg/l Spectrophotometric method	PB-432 ed. I of 01.06.2021 based on HACH 8051 method
	Fluoride concentration Range: (0,10 – 10) mg/l Potentiometric method	PN-78/C-04588/03
	Total nitrogen concentration (calculated)	PB-463 ed. II of 23.07.2021
	Total alkalinity Range: (0,40 – 20) mmol/l Titrimetric method Bicarbonate concentration (calculated)	PN-EN ISO 9963-1:2001+Ap1:2004
	Chloride concentration Range: (5,00 – 10000) mg/l Titrimetric method	PN-ISO 9297:1994
	Volatile organic compounds concentration Range: chloroform (1,0 – 200) µg/l bromodichloromethane (1,0 – 200) µg/l dibromochloromethane (1,0 – 200) µg/l bromoform (1,0 – 200) µg/l tetrachloromethane (carbon tetrachloride) (0,5 – 25) µg/l 1,2-dichloroethane (1,0 – 200) µg/l trichloroethylene (1,0 – 200) µg/l tetrachloroethylene (1,0 – 200) µg/l hexachlorobutadiene (0,10 – 12,5) µg/l vinyl chloride (0,10 – 12,5) µg/l benzene (0,5 – 100) µg/l toluene (0,5 – 100) µg/l ethylbenzene (1,0 – 200) µg/l (m + p)-xylene (0,5 – 200) µg/l o-xylene (0,5 – 200) µg/l Purge & Trap gas chromatography method with mass spectrometry detection (P&T-GC-MS) Sum of volatile organic compounds (calculated)	PN-EN ISO 15680:2008

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Water **Drinking water**	Colour Range: (5 – 70) mg/l Pt Spectrophotometric method	PN-EN ISO 7887:2012 method C; PN-EN ISO 7887:2012/Ap1:2015-06
	Turbidity Range: (0,20 – 800) NTU Nephelometric method	PN-EN ISO 7027-1:2016-09
	Iron concentration Range: (0,02 – 3,00) mg/l Spectrophotometric method	PB-464 ed. I of 01.06.2021 based on HACH 8008 method
	Manganese concentration Range: (0,006 – 0,70) mg/l Spectrophotometric method	PB-465 ed. I of 01.06.2021 based on HACH 8149 method
	Aluminium concentration Range: (0,02 – 0,50) mg/l Spectrophotometric method	PB-466 ed. I of 01.06.2021 based on HACH LCK 301 method
	Sum of calcium and magnesium content Total hardness Range: (0,05 – 5,0) mmol/l (5 – 500) mg/l CaCO3 Titrimetric method	PN-ISO 6059:1999
	Ammonium ion concentration Range: (0,05 –1,0) mg/l Spectrophotometric method	PB-462 ed. I of 01.06.2021 based on HACH 8155 method
	Permanganate index Range: (0,50 – 10) mg/l O_2 Titrimetric method	PN-EN ISO 8467:2001
Water **Sewage**	Kjeldahl nitrogen concentration Range: (0,50 – 1000) mg/l Titrimetric method	PN-EN 25663:2001
	Ammonium nitrogen concentration Range: (0,50 – 1000) mg/l Titrimetric method	PN-ISO 5664:2002
	Total phosphorus concentration Range: (0,020 – 50,0) mg/l Spectrophotometric method	PN-EN ISO 6878:2006 p.7 + Ap1:2010+Ap2:2010
	Total Suspended solids Range: (2,0 – 4000) mg/l Gravimetric method	PN-EN 872:2007+Ap1:2007
	Chemical oxygen demand-Cr Range: (5,00 – 10000) mg/l O_2 Spectrophotometric method	PN-ISO 15705:2005
	Biochemical oxygen demand (BOD_5) Range: (1 – 6000) mg/l O_2 Optical method	PN-EN ISO 5815-1:2019-12
	Total dissolved solids Range: (10 – 10000) mg/l Gravimetric method	PN-EN 15216:2022-03
	Dry residue Residue on ignition Range: (10 – 10000) mg/l Gravimetric method Ignition loss (calculated)	PN-78/C-04541

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Sewage	Sulphate (VI) concentration Range: (10 – 5000) mg/l Gravimetric method	PN-ISO 9280:2002
	Suspended matters suspension Range: (5 -100) ml/l Volumetric method	PN-72/C-04559/03

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Sampling Section Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Water **Drinking water** **Water on the swimming pools**	Sampling for microbiological analysis	PN-EN ISO 19458:2007 except p. 4.4.6
Air	Air sampling for microbiological analysis Sedimentation and collision (impact) method	PB-250 ed. 4 of 31.10.2025
Drinking water	Water sampling for chemical and physical analysis Temperature of sampled water Range: (4,0-50,0) °C	PN-ISO 5667-5:2017-10 PN-77/C-04584
Underground water	Sampling for chemical and physical analysis Temperature of sampled water Range: (4,0-50,0) °C	PN-ISO 5667-11:2017-10 PN-77/C-04584
Surface water	Sampling for chemical and physical analysis	PN-ISO 5667-6:2016-12 except p.7.5;7.6
	Temperature Range: (4,0-50,0) °C	PN-77/C-04584
Sewage	Sampling for chemical and physical analysis Manual method Automatic method Temperature of taken sewage sample Range: (4,0-50,0) °C	PN-ISO 5667-10:2021-11 PN-77/C-04584
	Total chlorine concentration Range: (0,05 – 2,0) mg/l Spectrophotometric method	PB-480 ed. I of 24.06.2021 based on HACH 8167 method
	Free chlorine concentration Range: (0,05 – 2,0) mg/l Spectrophotometric method	PB-480 ed. I of 24.06.2021 based on HACH 8021 method
Waste [O)] group code: **19 08 01, 19 08 02, 19 08 05,**	Sampling for chemical and physical analysis	PB-206 ed. II of 11.04.2019
Sewage sludge **Waste [O)] group code: 19 08 05**	Sampling for chemical and physical analysis	PN-ISO 5667-13:2011
Sewage sludge	Sampling for microbiological and biological analysis	PB-471 ed. 1 of 26.11.2021
Soil	Sampling for chemical and physical analysis	PN-R-04031:1997 PN-ISO 10381-4:2007 PN-ISO 10381-5:2009
Ground	Sampling for chemical and physical analysis	PN-ISO 10381-4:2007 PN-ISO 10381-5:2009
Agricultural proudcts	Sampling for testing on presence of plant protection products	Ministry of Agriculture and Rural Development Regulation of 3 September 2020 (Journal of Laws No. 2020, item 1589)
Environmental samples from food and cosmetics production areas as well as food and cosmetics trade	Sampling from the surface using contact plates and swabs for microbiological analysis	PN-EN ISO 18593:2018-08
Water on the swimming pools	Sampling for microbiological, chemical and physical analysis Temperature Range: (4,0 - 50,0) °C	PB-378 ed. 3 of 09.02.2026 PN-77/C-04584

[O)] Waste codes given according to Minister of Climate Regulation on the waste catalogue.

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Water (including water on the swimming pools)	Oxidant-reducing potential (Redox) vs. Ag/AgCl 3,5 mol KCl Range: (200 - 1000) mV Potentiometric method	PB-377 ed. II of 30.03.2020
	Chloramines concentration Range: (0,05 – 4,0) mg/l Spectrophotometric method	PB-469 ed. I of 08.01.2021 based on HACH no. 10200 method
	Chloramines concentration Range: (0,05 – 4,0) mg/l Spectrophotometric method	PB-358 ed. III of 30.03.2020 based on Palintest method PB-566 ed. 1 of 18.11.2024
	Total chlorine concentration Range (0,05-5,0) mg/l Colorimetric method	
	Combined chlorine concentration (calculated)	
	Ozone concentration Range: (0,03 – 0,75) mg/l Spectrophotometric method	PB-468 ed. I of 03.06.2021 based on HACH no. 8311 method
Water, sewage	pH Range: 4,0-10,0 Potentiometric method	PN-EN ISO 10523:2012
Water **Drinking water** **Sewage**	Dissolved oxygen concentration Range: (0,2 – 15) mg/l O_2 Optical method	ISO 17289:2014

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Sampling carried out for the purposes of the regulated area: *- Regulation of the Minister of Economy of 16 July 2015 on the acceptance of waste at landfills (Journal of Laws of 2015, item 1277)* *- Regulation of the Minister of the Environment of 6 February 2015 on municipal sewage sludge (Journal of Laws of 2015, item 257)*		
Waste [DAB-11]: **-Sediments and mineral wastes (I);** **-Construction waste (III);** **-Waste from waste treatment (VI);** **-Sewage sludge (IX);** **-Slags, ashes and furnace dust (XI);** **-Other municipal waste, including mixed waste (XXVIII)** **-Sediments from industrial processes (VII)** **-Waste from the processing of petroleum, natural gas and coal (XXI)** **-Plastics (XXV);** **-Wood (XXVI);** **-Leather and textiles (XXVII)**	Sampling for chemical and physical analysis	PB-206, ed. II of 11.04.2019

[DAB-11)] Waste codes according to Minister of Climate Regulation on the waste catalogue for the validation group are given in Annex No. 1 to DAB-11.

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Sample Homogenization and Physical Analysis Section Chwaszczyńska 180, 81-571 Gdynia		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Oilseeds	Impurities content Range: (0,1 – 20) % Gravimetric method	PN-EN ISO 658:2004 ISO 658:2002
Fish and fishery products and seafood	Glaze content Range: (5,0 – 45,0) % (m/m) Gravimetric method	CODEX STAN 165-1989 (Rev. 1-1995) PB-281 ed. IV of 11.01.2021
Cereals and cereal products	Gluten content Range: (15 – 37) % Gravimetric method	PN-77/A-74041 p. 2.5.2.
Cereals	Bulk density (mass per hectolitre) Range: (35 – 90) kg/hl Gravimetric method	PN-EN ISO 7971-3:2019-03
Canned meat	Tightness Vacuum method Visual method	PN-A-82055-4:1997+Az1:2002
Canned meat	Content of melt fat and jelly Range: (1,0 – 25,0) % Gravimetric method	PN-A-82056:1985 p. 2.3.8
Canned vegetables, fruit, meat and vegetable	Tightness Vacuum method	PN-A-75052-02:1990
Tea and coffee, **Food concentrates,** **Meat and meat products,** **Milk and dairy products,** **Fruits, vegetables, fruit and vegetable products and vegetable with meat products,** **Fish and fishery products and seafood,** **Sweets and sugar confectionery,** **Herbal raw materials and products, spices,** **Foodstuffs for particular nutritional uses,** **Animal and vegetable fats and oils,** **Cereals and cereal products,** **Frozen products,** **Ready-made culinary products,** **Food additives,** **Products used in animal nutrition**	Weight Range: (1,0 – 5000) g Gravimetric method	PB-281 ed. IV of 11.01.2021
Dietary supplements	Weight Range: (0,15 – 100) g Gravimetric method	PB-281 ed IV of 11.01.2021
Canned meat	Weight Range: (50,0 – 5000) g Gravimetric method	PN-A-82056:1985 p. 2.3.5
Fruits, vegetables, fruit and vegetable products and vegetable with meat products	Weight Range: (50,0 – 5000) g Gravimetric method	PN-A-75101-15:1990 p. 2

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Subject of testing/product	Type of activity/tested qualities/method	Reference document
Milk and milk products, **Alcoholic beverages,** **Non-alcoholic beverages,** **Liquid food concentrates,** **Liquid dietary supplements** **Vegetable and fruits juices, nectars**	Volume measurement Range: (50 - 2000) ml Volumetric method	PB-369 ed. I of 04.01.2018
	Volume measurement Range: (50 - 5000) ml Gravimetric method	
Drinking water, **Non-alcoholic beverages,** **Beer**	Carbon dioxide concentration Range: (2,9 – 8,0) g/l Pressure method	PB-491 ed. 1 of 29.12.2021

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Dermatology Section Bajana 3D, 80-463 Gdańsk		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference document**
Cosmetic products, household chemistry products intended to come into contact with skin, hygiene products	Presence of an allergic reaction/contact eczema In vivo skin irritation method – open test	PB-562 ed. 4 of 07.03.2025
Cosmetic products, household chemistry products intended to come into contact with skin, hygiene products	Presence of an allergic reaction/contact eczema In vivo skin irritation method – semi-open and closed test	PB-561 ed. 4 of 07.03.2025

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Pesticide Residues Analysis Laboratory Słomczyn Słomczyn 80; 05-600 Grójec		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference documents**
Oilseeds	Water and volatile matter content Range: (3,0-12,0)% Gravimetric method	PN-EN ISO 665:2020-09
Food [E] **Plant parts** [E] **Growing media** [E] **Agriculture products** [E, RE)]	Pesticides residues content Liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS) Gas chromatography method coupled with tandem mass spectrometry (GC-MS-MS)	Standardized methods EURL-SRM QuPPe-Method In house test procedures
Soil [E]	Pesticides residues content Liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS) Gas chromatography method coupled with tandem mass spectrometry (GC-MS-MS)	Standardized methods
Food of plant orgin [E] **Agriculture products** [E, RE)] **Plant parts** [E]	Dithiocarbamates residue content Gas chromatrography method coupled with mass spectrometry (GC-MS) Headspace gas chromatrography method coupled with mass spectrometry (HS-GC-MS)	In house test procedures
Food [E] **Agricultural products** [E]	Metal content Mass spectrometry method with ionization in inductively coupled plasma (ICP-MS)	Standardized mathods In house test procedures

E – Flexible scope of accreditation. Flexible scope includes the elements indicated in document DA-10 for the scope of accreditation of testing laboratories.

A list of activities conducted under the flexible scope of accreditation shall be available on request by the accredited body.

RE) - The competence of the laboratory has been confirmed taking into account the applicable requirements the provisions of Regulation (EU) No 625/2017of the European Parliament and of the Council of 15 March 2017 on official controls and other official activities performed to ensure application of food and feed law, rules on and animal health and welfare, plant health and plant protection products (Journal of Laws UE L 95/1 of 07.04.2017, as amended), regulations (EU) 2018/848 of the European Parliament and of the Council 30 May 2018 on organic production and labelling of organic products and repealing Council Regulation (EC) 834/2007 and the document SANTE/11312/2021 v2.

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Pesticide Residues Analysis Laboratory Kalisz Kościuszków 11; 63-460 Nowe Skalmierzyce		
Subject of testing/product	**Type of activity/tested qualities/method**	**Reference documents**
Food [E] **Agriculture products** [E]	Pesticides residues content Liquid chromatography method coupled with tandem mass spectrometry (LC-MS-MS) Gas chromatography method coupled with tandem mass spectrometry (GC-MS-MS)	Standardized methods

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Summary of changes
Scope of Accreditation No. AB 079

Status change: A