

SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: **ocds-b3wdp1-MD-1676377371980 din 14.02.2023**

Denumirea procedurii de achiziție: **Reactivi și consumabile pentru LCCM fizico-chimie**

Nr. d/o	Nr. Lot	Denumirea bunurilor și specificația tehnică deplină solicitată	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
1	1	1,4-dioxane	296309-100ML	Germania	Sigma Aldrich	Conform Ph.Eur. A clear, colourless liquid, miscible with water and with most organic solvents; density: about 1.03; Water: max. 0.5%; Freezing point: minimum 11.0 °C. Ambalaj: 100 mL	1,4-Dioxane anhydrous, 99.8%, contains ≤25 ppm BHT as stabilizer	ISO
2	2	1,2-Dichloroethane	34872-100ML	Germania	Sigma Aldrich	Conform Ph.Eur. A clear, colourless liquid, soluble in about 120 parts of water and in 2 parts of ethanol (96 per cent). Density: about 1.25. Distillation range: Not less than 95 per cent distills between 82 °C and 84 °C. Ambalaj: 100 mL	1,2-Dichloroethane suitable for HPLC, ≥99.8%	ISO
3	3	1-Propanol	34871-1L	Germania	Sigma Aldrich	for HPLC; ≥99.9%; Water: ≤0.05%; Clear colourless liquid, miscible with water and with ethanol (96%); density: 0.802-0.806; bp: about 97.2 °C. Distillation range: Not less than 95% distills between 96°C and 99°C; Ambalaj: 1L.	1-Propanol suitable for HPLC, ≥99.9%	ISO
4	4	Ammonium dihydrogen phosphate	1011260500	Germania	Sigma Aldrich	Conform Ph.Eur. A white or almost white, crystalline powder or colourless crystals, freely soluble in water. pH : about 4.2 for a 23 g/L solution. Ambalaj: 500g.	Ammonium dihydrogen phosphate for analysis EMSURE® ACS, Reag. Ph Eur, Merck	ISO
5	5	Ammonium oxalate monohydrate	32304-250G	Germania	Sigma Aldrich	Conform Ph.Eur. Ambalaj: 250g	Ammonium oxalate monohydrate puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., 99.5-101.0%	ISO
6	6	Benzene	319953-500ML	Germania	Sigma Aldrich	Conform Ph.Eur, Assay 99.0%, Ambalaj: 0,5 L	Benzene ACS reagent, ≥99.0%	ISO
7	7	Citric acid monohydrate	33114-500G	Germania	Sigma Aldrich	Conform Ph.Eur, assay 99.5-100.5% (calc. on anhydrous substance); oxalic acid: max.360ppm; sulfati: max.150ppm; Water:7,5-9,0%; Sulfated ash: maximum 0.1%. Ambalaj: 0,5 kg	Citric acid monohydrate puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., buffer substance, 99.5-102%	ISO
8	8	Cobalt(II) chloride hexahydrate	202185-25G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 50 g	Cobalt(II) chloride hexahydrate reagent grade	ISO

9	9	di-Ammonium hydrogen phosphate	A5764-100G	Germania	Sigma Aldrich	conform Ph.Eur.; pH: about 8 for a 200 g/L solution. Ambalaj: 100 g	Ammonium phosphate dibasic reagent grade, ≥98.0%	ISO
10	10	Diethyl ether	32203-1L	Germania	Sigma Aldrich	Conform Ph.Eur a clear, colourless, volatile liquid, soluble in water, miscible with ethanol (96%), with methylene chloride and with fatty oils, assay ≥99.7% (GC), Relative density: 0.714 to 0.716, Water : maximum 2 g/L. Ambalaj: 1 L	Diethyl ether contains BHT as inhibitor, puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.8%	ISO
11	11	DIETHYLENE GLYCOL	H26456-25ML	Germania	Sigma Aldrich	Conform Ph.Eur a clear, colourless liquid, hygroscopic, miscible with water, with acetone and with ethanol 96%; assay: min.99.5% m/m; density: 1.118; refractive index: 1.447. Ambalaj: 25 mL	Diethylene glycol ReagentPlus®, 99%	ISO
12	12	2-(1-methylethoxy)propane (Diisopropyl ether)	398276-500ML	Germania	Sigma Aldrich	Clear, colourless liquid, very slightly soluble in water, miscible with ethanol (96 per cent); density: 0.723 to 0.728; bp: 67 °C to 69 °C. Ambalaj: 0.5L.	Diisopropyl ether contains either BHT or hydroquinone as stabilizer, ACS reagent, ≥99.0%	ISO
13	13	Diphenylamine	33149-100G-R	Germania	Sigma Aldrich	Conform Ph.Eur a white or almost white crystals, slightly soluble in water, soluble in ethanol (96 per cent). mp: about 55 °C. Ambalaj: 25g.	Diphenylamine puriss. p.a., redox indicator, ACS reagent, reag. Ph. Eur., ≥98% (GC)	ISO
14	14	Ethyl acetate	27227-1L-M	Germania	Sigma Aldrich	Conform Ph.Eur a clear, colourless liquid, soluble in water, miscible with ethanol (96 per cent), assay ≥99.5% (GC); Relative density: 0.898 to 0.902; Refractive index: 1.370 to 1.373; Related substances conform Ph.Eur.; Residue on evaporation: maximum 30 ppm.; Water: max. 0.1%. Ambalaj: 1 L	Ethyl acetate puriss., meets analytical specification of Ph. Eur., BP, NF, ≥99.5% (GC)	ISO
15	15	Hexamethylenetetramine	H11300-25G	Germania	Sigma Aldrich	Conform Ph.Eur a colourless, crystalline powder, very soluble in water. Ambalaj: 25 g	Hexamethylenetetramine ReagentPlus®, 99%	ISO
16	16	Iron(III) chloride hexahydrate	44944-50G	Germania	Sigma Aldrich	Conform Ph.Eur., 98.0-102.0% .Crystalline mass or orange-yellow or brownish-yellow crystals, very hygroscopic; Sulfates: maximum 100 ppm; Ferrous ions: max. 50 ppm; Ambalaj: 50 g	Iron(III) chloride hexahydrate puriss. p.a., ACS reagent, crystallized, 98.0-102% (RT)	ISO
17	17	Methanol HPLC	1060072500	Germania	Sigma Aldrich	≥99,9%; Reag. Ph. Eur.; gradul gradient; corespunde cu Methanol R1 și R2 în conformitate cu Reag. Ph. Eur.; filtrat prin filtru de 0,2 µm; corespunde pentru utilizarea la echipamente UPLC/ UHPLC/ Ultra HPLC; colorație: ≤ 10 Hazen; apă: ≤ 0,02%; reziduu după evaporare: ≤ 2,0 mg/l; aciditate: ≤ 0,0002 meq/g; alcalinitate: ≤ 0,0002 meq/g; densitate: 0,791 – 0,793 (la 20 °C); temperatura de fierbere: 64 – 65 °C; Gradul gradient la 235 nm: ≤ 2,0 mAU, la 254 nm: ≤ 1,0 mAH; Absorbanță: ≤ 0,170 (la 225 nm); Transmisie : la 210 nm: ≥ 20%, la 220 nm: ≥ 60%, la 230 nm: ≥ 75%, - la 235 nm: ≥ 83%, la 250 nm: ≥ 95%, - la ≥ 260 nm: 98%; Fluorescență (ca chinină la 254 nm): ≤ 1,0 ppb, ≤ 0,5 ppb (ca chinină la 365 nm);Ambalaj: 2,5 litr.	Methanol gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur, Merck	ISO
18	18	Potassium hexahydroxoantimonate	1051100100	Germania	Sigma Aldrich	Conform Ph.Eur, White or almost white, crystals or crystalline powder, sparingly soluble in water. Ambalaj: 25 g	Potassium hexahydroxoantimonate(V) cryst. for analysis EMSURE® Merck	ISO
19	19	Potassium permanganate	1051100100	Ucraina	Macrochem	Conform Ph.Eur; Content: 99.0 per cent to 100.5 per cent.Substances insoluble in water: maximum 1.0 per cent.; Chlorides: maximum 200 ppm; Sulfates (2.4.13): maximum 500 ppm. Ambalaj: 100 g	Potassium permanganate, cp.	ISO
20	20	Sodium carbonate anhydrous	13418-1KG-R	Germania	Sigma Aldrich	White or almost white powder, hygroscopic, freely soluble in water. When heated to about 300 °C it loses not more than 1 per cent of its mass. Ambalaj: 1 kg	Sodium carbonate puriss., meets analytical specification of Ph. Eur., BP, NF, FCC, E500, anhydrous, 99.5-100.5% (calc. to the dried substance)	ISO

21	21	Sodium dodecyl sulfate	75746-250G	Germania	Sigma Aldrich	Conform Ph.Eur, assay ≥99.0% (GC), Non-esterified alcohols: maximum 4.0 per cent; Sodium chloride and sodium sulfate: maximum 8.0 per cent for the total percentage content. Ambalaj: 500 g	Sodium dodecyl sulfate ≥99.0% (GC), dust-free pellets	ISO
22	22	Sodium sulfate	31481-500G-R	Germania	Sigma Aldrich	Conform Ph.Eur.:Anhydrous disodium sulfate.Content: 98.5 per cent to 101.0 per cent (dried substance).Chlorides: maximum 450 ppm.Calcium: maximum 450 ppm.Iron : maximum 90 ppm.Magnesium: maximum 200 ppm.Loss on drying: maximum 0.5 per cent, determined on 1.000 g Ambalaj 0.5 kg	Sodium sulfate puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., anhydrous, ≥99.0%	ISO
23	23	Sodium thiosulfate pentahydrate	13479-500G-R	Germania	Sigma Aldrich	Conform Ph.Eur. Assay 99.0-101.0%. pH: 6.0-8.4; Sulfates, sulfites: max.0.2%; Sulfides: conform Ph.Eur. Ambalaj: 250 g	Sodium thiosulfate pentahydrate puriss., meets analytical specification of Ph. Eur., BP, USP	ISO
24	24	Triethanolamine	90279-100ML	Germania	Sigma Aldrich	Content: 99.0 per cent m/m to 103.0 per cent m/m of total bases (anhydrous substance); Related substances conform Ph.Eur; Water (2.5.12): maximum 1.0 per cent, determined on 1.000 g.; Sulfated ash (2.4.14): maximum 0.1 per cent, determined on 1.0 g. Ambalaj: 100 ml	Triethanolamine ≥99.0% (GC)	ISO
25	25	(-)-Menthone	218235-25G	Germania	Sigma Aldrich	CAS: 14073-97-3. Colourless liquid, very slightly soluble in water, very soluble in ethanol (96 per cent); density: about 0.897; refractive index about 1.450; Content: minimum 90.0 per cent, calculated by the normalisation procedure. Ambalaj: 25 mL	(-)-Menthone 90%	ISO
26	26	(-)-β-Pinene (CAS: 18172-67-3)	112089-5ML	Germania	Sigma Aldrich	assay ≥95%, Ambalaj: 5 mL	(-)-β-Pinene 99%	ISO
27	27	(R)-(-)-α-Phellandrene (CAS: 4221-98-1)	77429-1ML	Germania	Sigma Aldrich	refractive index about 1.471; Content: minimum 95.0 per cent, calculated by the normalisation procedure. Ambalaj: 1 mL	(R)-(-)-α-Phellandrene ≥95.0% (sum of enantiomers, GC)	ISO
28	28	1-Fluoro-2,4-dinitrobenzene	A11871.14	Germania	Sigma Aldrich	Pale yellow liquid or crystals, soluble in propylene glycol; mp: about 29 °C.; Content: minimum 99.0 per cent, determined by gas chromatography. Ambalaj: 25 g	1-Fluoro-2,4-dinitrobenzene, 99%, Alfa Aesar	ISO
29	29	(+)-Menthofuran	63661-1ML-F	Germania	Sigma Aldrich	Conform Ph.Eur.: Slightly bluish liquid, very slightly soluble in water, soluble in ethanol (96%). density: about 0.965; refractive index: about 1.480; optical activity: about + 93; bp: 196 °C. Suitable for Gas chromatografy; Content: minimum 97.0 per cent, calculated by the normalisation procedure. Ambalaj: 1ml.	(+)-Menthofuran analytical standard	ISO
30	30	Isoniazid	I3377-5G	Germania	Sigma Aldrich	Content: 99.0 per cent to 101.0 per cent (dried substance).; pH (2.2.3): 6.0 to 8.0 for solution S; Related substances conform Ph.Eur.; Loss on drying: max 0.5%, determined on 1.000 g by drying in an oven at 105 °C; Sulfated ash:max.0.1%, determined on 1.0 g.Ambalaj 5g	Isoniazid analytical standard, ≥99% (TLC)	ISO
31	31	THIOACETAMIDE	163678-25G	Germania	Sigma Aldrich	Conform Ph.Eur. Crystalline powder or colourless crystals, freely soluble in water and in ethanol (96 per cent); mp: about 113 °C; Ambalaj 25 g	Thioacetamide ACS reagent, ≥99.0%	ISO
32	32	Neryl acetate	46015-1ML	Germania	Sigma Aldrich	Conform Ph.Eur a colourless, oily liquid, assay ≥93.0% (GC), density 0.907 g/mL at 20 °C. Ambalaj: 1 mL	Neryl acetate analytical standard	ISO
33	34	(R)-(+)-Limonene	62118-5ML	Germania	Sigma Aldrich	Conform Ph.Eur Colourless liquid, practically insoluble in water, soluble in ethanol (96 per cent) ,assay ≥99.0%; density: about 0.84; refractive index: about 1.471-1,474; optical activity: about + 124. Ambalaj: 5ml	(R)-(+)-Limonene analytical standard	ISO

34	35	α -Terpineol	30627-100MG	Germania	Sigma Aldrich	Conform Ph.Eur; Colourless crystals, practically insoluble in water, soluble in ethanol (96 per cent). assay $\geq$ 97.0%; density: about 0.935; refractive index: about 1.483; optical activity: about + 92,5. Ambalaj: 1ml	α -Terpineol analytical standard	ISO
35	36	Anisaldehyde	97063-5ML-F	Germania	Sigma Aldrich	Conform Ph.Eur.; Oily liquid, very slightly soluble in water, miscible with ethanol (96 per cent). bp: about 248 °C.; Content: minimum 99.0 per cent, calculated by the normalisation procedure. Ambalaj: 5ml	p-Anisaldehyde analytical standard	ISO
36	37	Citral (cis+trans)	C83007-5ML	Germania	Sigma Aldrich	Conform Ph.Eur; Light yellow liquid, practically insoluble in water, miscible with ethanol (96 per cent) and with propylene glycol; Content of citral (neral + geranial): minimum 95.0 per cent, calculated by the normalisation procedure. Ambalaj: 5ml	Citral 95%	ISO
37	38	(+/-)-Linalool	8186270005	Germania	Sigma Aldrich	Conform Ph.Eur; Mixture of two stereoisomers (licareol and coriandrol); density: about 0.860; refractive index: about 1.462; Content: minimum 98.0 per cent, calculated by the normalisation procedure. Ambalaj: 5ml	Linalool for synthesis, Merck	ISO
38	39	γ -Terpinene	223190-5ML	Germania	Sigma Aldrich	Conform Ph.Eur; Oily liquid; Content: minimum 93.0 per cent, calculated by the normalisation procedure. Ambalaj: 5ml	γ -Terpinene 97%	ISO
39	40	Methyl Orange	68250-25G	Germania	Sigma Aldrich	Orange-yellow, crystalline powder, slightly soluble in water, practically insoluble in ethanol (96 per cent).; Schultz No. 176.Colour Index No. 13025. Ambalaj: 25g	Methyl Orange for microscopy (Hist.), indicator (pH 3.0-4.4)	ISO
40	41	Murexid	222461-5G	Germania	Sigma Aldrich	Conform Ph.Eur Brownish-red crystalline powder, sparingly soluble in cold water, soluble in hot water, practically insoluble in ethanol (96 per cent), soluble in solutions of potassium hydroxide or sodium hydroxide giving a blue colour. Ambalaj: 5g	Murexide ACS reagent	ISO
41	42	Metanil yellow	1592670010	Germania	Sigma Aldrich	Conform Ph.Eur a brownish-yellow powder, soluble in water and in ethanol (96 per cent), Colour Index No. 13065. Schultz No. 169. Ambalaj: 10g	Metanil yellow Reag. Ph Eur, Merck	ISO
42	43	Mordant blue 13	201723-25G	Germania	Sigma Aldrich	chromic dark blue; CAS:1058-92-0; Ambalaj: 25g	Plasmocorin B, Mordant Blue 13 Dye content 60 %	ISO
43	44	Dithizone	43820-10G	Germania	Sigma Aldrich	Conform Ph.Eur A bluish-black, brownish-black or black powder, practically insoluble in water, soluble in ethanol (96 per cent). Ambalaj: 10g	Dithizone ACS reagent, for spectrophotometric det. of Cd, Cu, Hg, Pb, Zn, $\geq$ 98.0% (TLC)	ISO
44	45	Bromocresol green	114359-5G	Germania	Sigma Aldrich	Conform Ph.Eur; Brownish-white powder, slightly soluble in water, soluble in ethanol (96 per cent) and in dilute solutions of alkali hydroxides. Ambalaj: 5g	Bromocresol Green ACS reagent, Dye content 95 %	ISO
45	46	Tropaeolin OO	7731,1	Germania	Roth	pH 1.2–3.2 violet-red/yellow; Ambalaj: 25 g	Tropaeolin OO (Orange IV sodium salt (C.I. 13080), CAS 554-73-4 for microscopy, Roth	ISO
46	47	Eosin Y	E6003-25G	Germania	Sigma Aldrich	indicator; CAS:17372-87-1; Ambalaj: 25g	Eosin Y disodium salt, Dye content $\geq$ 85 % CAS 17372-87-1	ISO
47	48	Alizarin S.	348,1	Germania	Roth	Conform Ph.Eur an orange-yellow powder, freely soluble in water and in ethanol (96 per cent), Colour Index No. 58005, Schultz No. 1145. Ambalaj 25g	Alizarin red S (C.I. 58005) for microscopy, Roth	ISO
48	49	Methyl red	1060760025	Germania	Sigma Aldrich	Conform Ph.Eur a dark-red powder or violet crystals, practically insoluble in water, soluble in ethanol (96 per cent); Schultz No. 250; Colour Index No. 13020; Ambalaj 25g	Methyl red (C.I. 13020), Indicator ACS, Reag. Ph. Eur, Merck	ISO

49	50	Methyl violet	69710-25G	Germania	Sigma Aldrich	Powder or crystals, pH 1-2, solubility: ethanol and water: 0.01 g/10 mL. Ambalaj 25g	Methyl violet for microscopy (Bact., Bot., Hist.), indicator (pH 0.1-2.0), mixture of polymethylated pararosaniline hydrochlorides	ISO
50	51	Bromophenol blue	114391-5G	Germania	Sigma Aldrich	Conform Ph.Eur a light orange-yellow powder, very slightly soluble in water, slightly soluble in ethanol (96 per cent), freely soluble in solutions of alkali hydroxides. Ambalaj 5g	Bromophenol Blue ACS reagent	ISO
51	52	Bromocresol purple	32642-5G	Germania	Honeywell	Conform Ph.Eur a pinkish powder, practically insoluble in water, soluble in ethanol (96 per cent) and in dilute solutions of alkali hydroxides. Ambalaj: 5g	Bromocresol Purple, Indicator, Reag. Ph. Eur., Honeywell	ISO
52	53	Bromophenol red	1030230005	Germania	Sigma Aldrich	solid, impurities ≤5% Water (Karl Fischer), visual transition interval 4.7-6.3, yellow to purple, mp 230 °C (decomposition). Ambalaj: 5g	Bromophenol red indicator, Merck	ISO
53	54	Congo red	1013400025	Germania	Sigma Aldrich	Conform Ph.Eur a brownish-red powder, soluble in water, colour Index No. 22120. Ambalaj: 25g	Congo red (C.I. 22120, indicator Reag. Ph Eur, Merck	ISO
54	55	Cresol red	114472-5G	Germania	Sigma Aldrich	Conform Ph.Eur a reddish-brown crystalline powder, slightly soluble in water, soluble in ethanol (96 per cent) and in dilute solutions of alkali hydroxides. CAS: 1733-12-6. Ambalaj: 5g	Cresol red indicator grade, Dye content 95 %	ISO
55	56	Methylene blue	66720-25G	Germania	Sigma Aldrich	Conform Ph.Eur a dark-green or bronze, crystalline powder, freely soluble in water, soluble in ethanol (96 per cent). Schultz No. 1038; Colour Index No. 52015. Ambalaj: 25g	Methylene Blue hydrate purum p.a., for microscopy (Bact., Bot., Hist., Vit.), ≥97.0% (calc. based on dry substance, AT)	ISO
56	57	phenolphthalein	1072330025	Germania	Sigma Aldrich	Conform Ph.Eur a white or yellowish-white powder, practically insoluble in water, soluble in ethanol (96 per cent); assay: 98,0-101,0% (dried substance); Related substances (TLC): conform Ph.Eur; Chlorides max 100ppm; Sulfates: max 200ppm; Loss on drying: Not more than 0.5%; Sulfated ash: Not more than 0.1%. Ambalaj: 25g	Phenolphthalein indicator ACS, Reag. Ph Eur, Merck	ISO
57	58	1,10-Phenanthroline chloride monohydrate	1072230010	Germania	Sigma Aldrich	Conform Ph.Eur, White or almost white, crystalline powder, freely soluble in water, soluble in ethanol (96 per cent). mp: about 215 °C, with decomposition. Ambalaj: 10g	1,10-Phenanthroline chloride monohydrate GR for analysis and redox indicator [reagent for iron(II)] Reag. Ph Eur, Merck	ISO
58	59	Copper (II) acetate monohydrate	217557-100G	Germania	Sigma Aldrich	Conform Ph.Eur: Blue-green crystals or powder, freely soluble in boiling water, soluble in water and in ethanol (96 per cent), slightly soluble in glycerol (85 per cent). Ambalaj 100g	Copper(II) acetate monohydrate ACS reagent, ≥98%	ISO
59	60	Dichloroacetic acid	D54702-100ML	Germania	Sigma Aldrich	Conform Ph.Eur.; Colourless liquid, miscible with water and ethanol (96 per cent). Density: about 1.566; Refractive index: about 1.466.; bp: about 193 °C. Ambalaj: 100ml	Dichloroacetic acid ReagentPlus®, ≥99%	ISO
60	61	Tartaric acid	251380-100G	Germania	Sigma Aldrich	Conform Ph.Eur.. Ambalaj: 100g	L-(+)-Tartaric acid ACS reagent, ≥99.5%	ISO
61	63	(-)-Borneol	8144720025	Germania	Sigma Aldrich	Conform Ph.Eur.; Colourless crystals, readily sublimes, practically insoluble in water, freely soluble in ethanol (96 per cent) and in light petroleum.; mp: about 208 °C. Ambalaj 25 g	(1S)-(-)-Borneol for synthesis, Merck	ISO
62	64	Bornyl acetat (CAS:5655-61-8)	45855-1ML-F	Germania	Sigma Aldrich	Conform Ph.Eur, Colourless crystals or a colourless liquid, very slightly soluble in water, soluble in ethanol (96 per cent); Suitable for GC. Ambalaj 1 ml	(-)-Bornyl acetate analytical standard	ISO

63	65	Bovine serum albumin	A2153-10G	Germania	Sigma Aldrich	Bovine serum albumin containing about 96% of protein; White to light brownish-yellow powder; Water: max 3.0%, determined on 0.800 g. Ambalaj 10 g	Bovine Serum Albumin lyophilized powder, ≥96% (agarose gel electrophoresis)	ISO
64	66	Bromothymol blue	114413-5G	Germania	Sigma Aldrich	Conform Ph.Eur; Reddish-pink or brownish powder, practically insoluble in water, soluble in ethanol (96 per cent) and in dilute solutions of alkali hydroxides. Ambalaj 5 g	Bromothymol Blue ACS reagent, Dye content 95 %	ISO
65	67	Chloroform	32211-2.5L	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 2,5L.	Chloroform puriss. p.a., reag. ISO, reag. Ph. Eur., 99.0-99.4% (GC)	ISO
66	68	Copper sulfate pentahydrate	1027901000	Germania	Sigma Aldrich	Conform Ph.Eur.:Content: 99.0 per cent to 101.0 per cent. Appearance: blue, crystalline powder or transparent, blue crystals.Solubility: freely soluble in water, soluble in methanol, practically insoluble in ethanol (96 per cent).Chlorides: maximum 100 ppm.Iron: maximum 100 ppm.Elemental impurities- conform Ph.Eur. Loss on drying: 35.0 per cent to 36.5 per cent. Ambalaj 250 g	Copper(II) sulfate pentahydrate for analysis EMSURE® ACS,ISO,Reag. Ph Eur, Merck	ISO
67	69	Dimethyl sulfoxide	131954,1612	Germania	AppliChem	Conform Ph.Eur; ≥99.7 %. Ambalaj 2.5L	Dimethyl Sulfoxide (Reag. Ph. Eur.) for analysis, ACS, Minimum assay (G.C.): 99.9%, AppliChem	ISO
68	70	Disodium edetate dihydrate	1084180100	Germania	Sigma Aldrich	Conform Ph.Eur; Content: 98.5 per cent to 101.0 per cent; pH: 4.0 to 5.5; Impurity (nitrilotriacetic acid) max.0.1%; Iron: maximum 100 ppm. Ambalaj 100 g	Titriplex® III for analysis, ACS reagent, ISO, reag. Ph. Eur., Merck	ISO
69	71	di-Potassium hydrogen phosphate trihydrate	1197540250	Germania	Sigma Aldrich	Conform Ph.Eur; suitable for HPLC mobile phase. Ambalaj 250 g	di-Potassium hydrogen phosphate trihydrate buffer substance for chromatography LiChropur™, Merck	ISO
70	72	di-Potassium hydrogen phosphate trihydrate	60349-250G-M	Germania	Sigma Aldrich	Conform Ph.Eur.: Colourless or white or almost white powder or crystals, freely soluble in water. Ambalaj 250 g	Potassium phosphate dibasic trihydrate puriss. p.a., ≥99.0% (T)	ISO
71	73	Ethanol absolute	32205-2.5L-M	Germania	Sigma Aldrich	≥99.5 % V/V, conform Ph. Eur.;Acidity <0.0005meq/g, Alkalinity <0.0002meq/g,Absorbance at 240nm < 0.40 Absorbance at 250 to 260nm <0.30, Absorbance at 270 to 340nm <0.10. Ambalaj: 2.5L	Ethanol absolute, reag. ISO, reag. Ph. Eur., ≥99.8% (GC), liquid (clear, colorless)	ISO
72	74	Solvent Karl Fischer two component	1880152500	Germania	Sigma Aldrich	solvent for volumetric Karl Fischer titration with two component reagents. Ambalaj: 2.5L.	Solvent solvent for volumetric Karl Fischer titration with two component reagents Aquastar®, Merck	ISO
73	75	Potassium sulfate	1697-1KG	Germania	CHEMSOLUTE®	Conform Ph.Eur.; Content: 98.5% to 101.0% of K ₂ SO ₄ (dried substance); Chlorides: maximum 40 ppm; Calcium: maximum 200 ppm.;Iron: maximum 10 ppm; Magnesium: max 20 ppm.; Sodium: max0.10%.Loss on drying: max 1.0%. Ambalaj 100 g	Potassium sulfate p. a., ACS, ISO, Ph. Eur. (min. 99.0 %), CHEMSOLUTE®	ISO
74	76	Sulfuric acid	30743-1L	Germania	Honeywell	purity: 95.0 % m/m to 97.0 % m/m; Chlorides: max. 0.5 ppm; Nitrates: max. 0.5 ppm; Ammonium: max.2 ppm; Arsenic: max. 0.02 ppm; Iron: max. 1 ppm; Heavy metals: max. 2 ppm; Residue on ignition: max. 0.001%. Ambalaj: 1L.	Sulfuric acid, puriss. p.a., for determination of Hg, ACS Reagent, Reag. ISO, Reag. Ph. Eur., 95.0-97.0%, Honeywell	ISO
75	77	Titrant Karl Fischer one component	1880051000	Germania	Sigma Aldrich	one-component reagent for volumetric Karl Fischer titration; titr-5 mg H ₂ O/ml. Ambalaj: 1L.	CombiTitant 5 one-component reagent for volumetric Karl Fischer titration 1 ml ≅ ca. 5 mg H ₂ O Aquastar®, Merck	ISO
76	78	Silver nitrate	10220-100G	Germania	Sigma Aldrich	99,0-100,5%; white or almost white, crystalline powder or transparent, colourless crystals; very soluble in water, soluble in ethanol (96 per cent); Foreign salts: max. 0.3%; Aluminium, lead, copper and bismuth- comply Ph.Eur.; Storage: in a non-metallic container, protected from light. Ambalaj:100g.	Silver nitrate meets analytical specification of Ph. Eur., BP, USP, 99.8-100.5%	ISO

77	80	camphene	456055-25G	Germania	Sigma Aldrich	>90%. Ambalaj: 50g	Camphene 95%	ISO
78	81	picric acid (2,4,6-trinitrophenol)	197378-100G	Germania	Sigma Aldrich	conform PhEur. Ambalaj:50g	Picric acid moistened with water, ≥98%	ISO
79	82	2-octyl-1-dodecanol	464481-25ML	Germania	Sigma Aldrich	Appearance (Form) Liquid, GC (area %) > 96.5 %. Ambalaj: 25mL	2-Octyl-1-dodecanol 97%	ISO
80	83	cesium chloride	289329-25G	Germania	Sigma Aldrich	conform PhEur. Ambalaj:50g	Cesium chloride ReagentPlus®, 99.9%	ISO
81	84	hydrindantin dihydrate	53940-10G	Germania	Sigma Aldrich	>98%. Ambalaj: 10g	Hydrindantin dihydrate for Stein-Moore-Chromatography, LiChropur™	ISO
82	85	ethylene oxide solution	48838	Germania	Sigma Aldrich	50mg/ml in methanol. Ambalaj: 1ml.	Ethylene oxide solution certified reference material, 50 mg/mL in methanol	ISO
83	86	ethylene oxide solution	CRM47949	Germania	Sigma Aldrich	2mg/ml in dichloromethane. Ambalaj: 1ml.	Ethylene oxide solution certified reference material, 2000 µg/mL in dichloromethane, ampule of 1 mL	ISO
84	87	tetraheptylammonium bromide	87296-10G-F	Germania	Sigma Aldrich	suitable for ion pair chromatography. Ambalaj: 10g	Tetraheptylammonium bromide suitable for ion pair chromatography, LiChropur™, ≥99.0% (AT)	ISO
85	88	1.8-cineole	C80601-5ML	Germania	Sigma Aldrich	min.98,0%. Ambalaj: 5ml	Eucalyptol 99%	ISO
86	89	isooctane	32291-1L-M	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 1 L.	2,2,4-Trimethylpentane puriss. p.a., ≥99.5% (GC)	ISO
87	90	Calconcarboxylic acid	H3128-5G	Germania	Sigma Aldrich	Brownish-black powder, slightly soluble in water, very slightly soluble in acetone and in ethanol (96 per cent), sparingly soluble in dilute solutions of sodium hydroxide. Ambalaj: 5g	Calconcarboxylic acid	ISO
88	91	trans-anethole (CAS-4180-23-8)	117870-25ML	Germania	Sigma Aldrich	≥99%. Ambalaj: 25ml	trans-Anethole 99%	ISO
89	92	barium chloride dihydrate	217565-100G	Germania	Sigma Aldrich	Conform Ph.Eur. Ambalaj: 100 g	Barium chloride dihydrate ACS reagent, ≥99%	ISO
90	93	Boron Trifluoride Methanol Solution	B1252-100ML	Germania	Sigma Aldrich	14% solution of BF3 in methanol. Ambalaj: 100ml.	Boron trifluoride-methanol solution 14% in methanol	ISO
91	94	CALCIUM CHLORIDE dihydrate	31307-500G	Germania	Sigma Aldrich	Reag. Ph Eur.; 97.0 - 103.0 %; Sulfate (SO4): ≤ 300ppm; Fe (Iron) ≤ 10ppm; Magneziu și metale alcaline: ≤ 0.5 %; Ambalaj: 250 g.	Calcium chloride dihydrate puriss. p.a., ACS reagent, reag. Ph. Eur., ≥99%	ISO
92	95	potassium carbonate	791776-100G	Germania	Sigma Aldrich	Conform Ph.Eur.; Content: 99.0% to 101.0% (dried substance); Chlorides: maximum 100 ppm; Sulfates: maximum 100 ppm; Calcium: maximum 100 ppm; Iron: maximum 10 ppm; Ambalaj: 100 g.	Potassium carbonate anhydrous, free-flowing, Redi-Dri™, ACS reagent, ≥99%	ISO
93	96	(-)-fenchone (CAS: 7787-20-4)	196436-50G	Germania	Sigma Aldrich	Oily liquid, miscible with ethanol (96 per cent), practically insoluble in water; refractive index: about 1.46; content: ≥98.0%.Ambalaj: 5 ml.	(1R)-(-)-Fenchone ≥98%	ISO
94	97	formamide	47670-250ML-F	Germania	Sigma Aldrich	Purity: ≥99,5%; water ≤0.1%; Clear, colourless, oily liquid, hygroscopic, miscible with water and with ethanol (96%); Density: about 1.134; bp: about 210 °C; Ambalaj: 0,25L.	Formamide puriss. p.a., ACS reagent, ≥99.5% (GC/T)	ISO
95	98	formic acid	33015-1L-M	Germania	Sigma Aldrich	conform Ph.Eur.; 98.0 % m/m to 100.5% m/m; Chlorides: maximum 10 ppm; Sulfates: maximum 50 ppm.; Sulfites: maximum 300 ppm.; Residue on evaporation: maximum 0.01%. Ambalaj: 1 L.	Formic acid puriss. p.a., ACS reagent, reag. Ph. Eur., ≥98%	ISO
96	99	Geraniol (CAS: 106-24-1)	163333-25G	Germania	Sigma Aldrich	≥98%; Ambalaj: 25g.	Geraniol 98%	ISO
97	100	Geranyl acetate	45896-1ML-F	Germania	Sigma Aldrich	≥98.0%; Ambalaj: 1ml.	Geranyl acetate analytical standard	ISO

98	101	glycerol	15523-1L	Germania	Honeywell	Content: 98.0 % - 101.0 % m/m; Relative density: 1.258 to 1.268; Acidity or alkalinity conform Ph.Eur. Refractive index: 1.470 to 1.475; Aldehydes: maximum 10 ppm; Esters conform Ph.Eur. Halogenated compounds: maximum 35 ppm; Sugars conform Ph.Eur.; Chlorides: maximum 10 ppm; Water: maximum 2.0 %; Sulfated ash: maximum 0.01%; Ambalaj: 1L.	Glycerol, puriss., meets analytical specification of BP, FCC, Ph. Eur., USP, E422, anhydrous, 99.0-101.0% (alkalimetric), Honeywell,	ISO
99	102	Sodium hexanitrocobaltate(III)	1025210025	Germania	Sigma Aldrich	conform Ph.Eur; Orange-yellow powder, freely soluble in water, slightly soluble in ethanol (96 per cent). Ambalaj 25 g	Sodium hexanitrocobaltate(III) [sodium cobalt(III)nitrite] for analysis EMSURE® ACS,Reag. Ph Eur., Merck	ISO
100	103	POTASSIUM HYDROXIDE	30603-1KG	Germania	Sigma Aldrich	Conform Ph.Eur.: Content: 85.0 per cent to 100.5 per cent of total alkali, calculated as KOH.Appearance: white or almost white, crystalline, hard masses, supplied as sticks, pellets or irregularly shaped pieces, deliquescent, absorbing carbon dioxide.Solubility: very soluble in water, freely soluble in ethanol (96 per cent).Carbonates: maximum 2.0 per cent. Chlorides: maximum 200 ppm.Phosphates: maximum 100 ppm.Sulfates: maximum 200 ppm.Aluminium: maximum 0.2 ppm.Iron: maximum 10 ppm.Sodium: maximum 1.0 per cent. Ambalaj 1 kg	Potassium hydroxide pellets, reag. Ph. Eur., ≥85%	ISO
101	104	Hydroxylamine hydrochloride	159417-100G	Germania	Sigma Aldrich	Conform Ph.Eur.: White or almost white, crystalline powder, very soluble in water, soluble in ethanol (96 per cent). Ambalaj 50 g	Hydroxylamine hydrochloride ReagentPlus®, 99%	ISO
102	105	potassium iodate	1050510100	Germania	Sigma Aldrich	Conform Ph.Eur; White or almost white, crystalline powder, soluble in water. Ambalaj: 100 g.	Potassium iodate for analysis EMSURE® ACS,ISO,Reag. Ph Eur, Merck	ISO
103	106	(+)-Isomenthol (CAS: 23283-97-8)	20624490-1G	Germania	Molekula	Colourless crystals, practically insoluble in water, very soluble in ethanol (96%). Optical rotation: about + 24, determined on a 100 g/L solution in ethanol (96%).; bp: about 218 °C; mp: about 80 °C. Ambalaj 1 g	(+)-Isomenthol (20624490 23283-97-8), Molekula	ISO
104	107	Linalyl acetate (CAS: 115-95-7)	L0049	Germania	TCI	min.95.0%; Colourless or slightly yellow liquid with a strong odour of bergamot and lavender. density: 0.895 to 0.912; Refractive index: 1.448 to 1.451; bp: about 215 °C. Ambalaj 5 ml	Linalyl Acetate, >95.0%(GC), TCI	ISO
105	108	Menthyl acetate (CAS: 2623-23-6)	441058-25ML	Germania	Sigma Aldrich	conform Ph.Eur; Colourless liquid, slightly soluble in water, miscible with ethanol (96%); density: about 0.92; refractive index: about 1.447; bp: about 228 °C; assay: min.97.0%. Ambalaj: 10ml.	(1R)-(-)-Menthyl acetate, 98%	ISO
106	109	Ammonium molybdate tetrahydrate	09878-25G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 25g.	Ammonium molybdate tetrahydrate BioUltra, ≥99.0% (T)	ISO
107	110	Iodine monochloride	208221-5G	Germania	Sigma Aldrich	conform Ph.Eur; Black crystals, soluble in water, in acetic acid and in ethanol (96%); bp: about 97.4 °C. Ambalaj: 5g.	Iodine monochloride reagent grade, ≥95%	ISO
108	111	N,N-dimethylaniline	515124-100ML	Germania	Sigma Aldrich	Clear, oily liquid, almost colourless when freshly distilled, darkening on storage to reddish-brown, practically insoluble in water, freely soluble in ethanol (96 per cent); Refractive index: 1.558; Distillation range: Not less than 95% distils between 192°C and 194°C. Ambalaj: 25ml.	N,N-Dimethylaniline ReagentPlus®, 99%	ISO
109	112	Nessler's reagent	72190-500ML	Germania	Sigma Aldrich	for determination of ammonia and ammonium compounds. Ambalaj: 500ml.	Nessler's reagent for qualitative det. of ammonia and ammonium compounds	ISO
110	113	Ninhydrin	151173-10G	Germania	Sigma Aldrich	conform Ph.Eur.; White or very pale yellow, crystalline powder, soluble in water and in ethanol (96%). Ambalaj: 10g	Ninhydrin ACS reagent	ISO

111	114	Lead (II) nitrate	228621-100G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 100g	Lead(II) nitrate ACS reagent, ≥99.0%	ISO
112	115	Oxalic acid dihydrate	33506-250G	Germania	Sigma Aldrich	conform Ph.Eur; White or almost white crystals, soluble in water, freely soluble in ethanol (96%); Ambalaj: 50g	Oxalic acid dihydrate puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.5% (manganometric)	ISO
113	116	Sodium perchlorate monohydrate	56581-50G	Germania	Sigma Aldrich	conform Ph.Eur; Content: min 99.0% of NaClO ₄ ·H ₂ O; White or almost white, deliquescent crystals, very soluble in water. Ambalaj: 100g	Sodium perchlorate monohydrate suitable for HPLC, LiChropur™, 99.0-101.0% (T)	ISO
114	117	Phthaldialdehyde	P1378-5G	Germania	Sigma Aldrich	conform Ph.Eur; Yellow, crystalline powder; mp: about 55 °C. Ambalaj: 5g	Phthaldialdehyde ≥97% (HPLC), powder or crystals	ISO
115	118	(+)-α-Pinene (CAS: 7785-70-8)	268070-5G	Germania	Sigma Aldrich	Content: min 99.0%; Liquid not miscible with water; density: about 0.859; refractive index: about 1.466; bp: 154 °C to 156 °C. Ambalaj: 5g	(+)-α-Pinene ≥99%	ISO
116	119	Polysorbate 20	44112-100G-F	Germania	Sigma Aldrich	Conform Ph.Eur: Appearance: oily, yellow or brownish-yellow, clear or slightly opalescent liquid. Solubility: soluble in water, in anhydrous ethanol, in ethyl acetate and in methanol, practically insoluble in fatty oils and in liquid paraffin. Relative density: about 1.10. Viscosity: about 400 mPa·s at 25 °C. Acid value: maximum 2.0. Hydroxyl value: 96 to 108. Peroxide value: maximum 10.0. Saponification value: 40 to 50, determined on 4.0 g. Composition of the fatty-acid fraction of the substance: conform Ph.Eur. Ethylene oxide and dioxan: maximum 1 ppm of ethylene oxide and 10 ppm of dioxan. Water: maximum 3.0 per cent, determined on 1.00 g. Total ash: maximum 0.25 per cent, determined on 2.0 g. Ambalaj 100 g	Polysorbate 20 tested according to Ph. Eur.	ISO
117	120	Potassium hexacyanoferrate(III)	244023-5G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 5 g	Potassium hexacyanoferrate(III) ACS reagent, ≥99.0%	ISO
118	121	Potassium thiocyanate	207799-100G	Germania	Sigma Aldrich	conform Ph.Eur; Colourless crystals, deliquescent, very soluble in water and in ethanol (96%). Ambalaj: 10 g	Potassium thiocyanate ACS reagent, 99%	ISO
119	122	Sodium nitroprusside dihydrate	228710-5G	Germania	Sigma Aldrich	Content: 99.0%-100.5% (anhydrous substance); Chlorides: max 200 ppm; Insoluble matter: max 100 ppm; Ambalaj: 5g	Sodium nitroferricyanide(III) dihydrate ACS reagent, ≥99%	ISO
120	123	Starch, soluble	S9765-100G	Germania	Sigma Aldrich	Ambalaj: 100g	Starch, soluble ACS reagent	ISO
121	124	Iron(II) sulphate heptahydrate	215422-5G	Germania	Sigma Aldrich	Content: 98.0% to 105.0%; Chlorides: maximum 200 ppm.; Ferric ions: maximum 0.3%; Manganese: maximum 0.1%; Zinc: maximum 50 ppm. Ambalaj: 5g	Iron(II) sulfate heptahydrate ACS reagent, ≥99.0%	ISO
122	125	Tannic acid	403040-50G	Germania	Sigma Aldrich	Yellowish or light-brown, glistening scales or amorphous powder, very soluble in water, freely soluble in ethanol (96 per cent), soluble in acetone. Ambalaj: 5g	Tannic acid ACS reagent	ISO
123	126	Ammonium thiocyanate	221988-100G	Germania	Sigma Aldrich	conform Ph.Eur; Colourless crystals, deliquescent, very soluble in water, soluble in ethanol (96 per cent). Ambalaj: 100g	Ammonium thiocyanate ACS reagent, ≥97.5%	ISO
124	127	tri-sodium citrate dihydrate	71402-100G	Germania	Sigma Aldrich	Content: 99.0 per cent to 101.0 per cent (anhydrous substance).; Readily carbonisable substances-conform PhEur; Chlorides: maximum 50 ppm; Oxalates: maximum 300 ppm.; Sulfates: maximum 150 ppm.; Water: 11.0% to 13.0%. Ambalaj: 100g	Sodium citrate tribasic dihydrate BioUltra, for molecular biology	ISO

125	128	Sodium tungstate dihydrate	72069-25G	Germania	Sigma Aldrich	White or almost white, crystalline powder or colourless crystals, freely soluble in water forming a clear solution, practically insoluble in ethanol (96%). Ambalaj: 25g	Sodium tungstate dihydrate BioUltra, ≥99.0% (T)	ISO
126	129	2-aminoethanol	398136-25ML	Germania	Sigma Aldrich	Content: 99.0 per cent m/m to 101.0 per cent m/m (anhydrous substance); Water: max 0.25%. Ambalaj: 25 ml	Ethanolamine ACS reagent, ≥99.0%	ISO
127	130	Dichlorophenolindophenol, sodium salt.	119814-5G	Germania	Sigma Aldrich	conform Ph.Eur.; Dark-green powder, freely soluble in water and in anhydrous ethanol. The aqueous solution is dark blue; when acidified it becomes pink. Ambalaj: 5g	Sodium 2,6-dichloroindophenolate hydrate ACS reagent	ISO
128	131	2,6-Dichloroquinone-4-chloroimide	35620-10G	Germania	Sigma Aldrich	Pale yellow or greenish-yellow crystalline powder, practically insoluble in water, soluble in ethanol (96 per cent) and in dilute alkaline solutions; mp: about 66 °C. Ambalaj: 10g	2,6-Dichloroquinone-4-chloroimide for spectrophotometric det. of vitamin B6, ≥99.0%	ISO
129	132	Lead(II) acetate trihydrate	215902-25G	Germania	Sigma Aldrich	reag. Ph. Eur.; Colourless crystals, efflorescent, freely soluble in water, soluble in ethanol (96 per cent). Ambalaj: 25g	Lead(II) acetate trihydrate ACS reagent, ≥99%	ISO
130	133	perchloric acid	30755-500ML	Germania	Sigma Aldrich	reag. Ph. Eur., 70.0-72.0%. Ambalaj: 0.5 L	Perchloric acid puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., 70.0-72.0%	ISO
131	134	acetaldehyde	00071-5ML	Germania	Sigma Aldrich	Clear, colourless flammable liquid, miscible with water and with ethanol (96 per cent).; density: about 0.788; Refractive index: about 1.332; bp: about 21 °C. Ambalaj: 10 ml	Acetaldehyde ReagentPlus®, ≥99.0% (GC)	ISO
132	135	(-)-Isopulegol	439061-1ML	Germania	Sigma Aldrich	conform Ph.Eur., min.99%, for GC. Ambalaj: 1 ml	(-)-Isopulegol 99%	ISO
133	136	Levomenthol (CAS:2216-51-5)	63660-1G	Germania	Sigma Aldrich	conform Ph.Eur., min.98.0%, for GC. Ambalaj: 1 g	(-)-Menthol analytical standard	ISO
134	137	(+)-Pulegone	82569-5ML	Germania	Sigma Aldrich	conform Ph.Eur., min.98,0%, for GC. Ambalaj: 5 ml	(+)-Pulegone analytical standard	ISO
135	138	(+)-Carvone	22070-1ML	Germania	Sigma Aldrich	conform Ph.Eur., min.98,0%, for GC. Ambalaj: 1 ml	(+)-Carvone analytical standard	ISO
136	139	β-Caryophyllene (CAS: 87-44-5)	22075-1ML-F	Germania	Sigma Aldrich	conform Ph.Eur., min.90,0%, for GC. Ambalaj: 1 ml	(-)-trans-Caryophyllene ≥98.0% (sum of enantiomers, GC)	ISO
137	140	trans-nerolidol (CAS:40716-66-3)	18143-100MG-F	Germania	Sigma Aldrich	conform Ph.Eur., min.90,0%, for GC. Ambalaj: 5 g	trans-Nerolidol analytical standard	ISO
138	141	methyl anthranilate	236454-50G	Germania	Sigma Aldrich	conform Ph.Eur., min.95,0%, for GC. Ambalaj: 50 g	Methyl 2-aminobenzoate ReagentPlus®, ≥99%	ISO
139	142	E,E- farnesole (CAS:106-28-5)	277541-1G	Germania	Sigma Aldrich	conform Ph.Eur., for GC. Ambalaj: 1 g	trans,trans-Farnesol 96%	ISO
140	143	Lavender oil for peak identification	Y0001992	Germania	Sigma Aldrich	conform Ph.Eur., for GC. Ambalaj: 0.5 ml	Lavender oil for peak identification European Pharmacopoeia (EP) Reference Standard	ISO
141	144	camphor racemic	21310-50G-F	Germania	Sigma Aldrich	conform Ph.Eur., min.95,0%. Ambalaj: 50g	(±)-Camphor purum, synthetic, ≥95.0% (GC)	ISO
142	145	cetyl alcohol CRS	C0990000	Germania	Sigma Aldrich	European Pharmacopoeia (EP) Reference Standard.	Cetyl alcohol European Pharmacopoeia (EP) Reference Standard	ISO
143	146	stearyl alcohol CRS	S1350000	Germania	Sigma Aldrich	European Pharmacopoeia (EP) Reference Standard	Stearyl alcohol European Pharmacopoeia (EP) Reference Standard	ISO
144	147	Methyl 2-methoxybenzoate	259659-25G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 25g	Methyl 2-methoxybenzoate 99%	ISO
145	148	Methyl 4-methoxybenzoate	253146-25G	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 25g	Methyl p-anisate 99%	ISO
146	149	methyl laurate	234591-5G	Germania	Sigma Aldrich	98% GC. Ambalaj: 5g	Methyl laurate 99.5%	ISO

147	150	methyl miristate	M3378-1G	Germania	Sigma Aldrich	98% GC. Ambalaj: 1g	Methyl myristate ≥99% (GC)	ISO
148	151	methyl palmitate	P5177-1G	Germania	Sigma Aldrich	98% GC. Ambalaj: 1g	Methyl palmitate ≥99% (capillary GC)	ISO
149	152	methyl stearate	S5376-1G	Germania	Sigma Aldrich	98% GC. Ambalaj: 1g	Methyl stearate ~99% (GC)	ISO
150	153	Methyl arachidate	10941-1G	Germania	Sigma Aldrich	98% GC. Ambalaj: 1g	Methyl arachidate analytical standard	ISO
151	154	methyl oleate	311111-5G	Germania	Sigma Aldrich	98% GC. Ambalaj: 5g	Methyl oleate 99%	ISO
152	155	methyl caproate	21599-1ML-F	Germania	Sigma Aldrich	for GC. Ambalaj: 1ml	Methyl hexanoate analytical standard	ISO
153	156	methyl caprylate	21719-5ML-F	Germania	Sigma Aldrich	for GC. Ambalaj: 5ml	Methyl octanoate analytical standard	ISO
154	157	methyl decanoate	21479-1ML	Germania	Sigma Aldrich	99.0% GC. Ambalaj: 1ml	Methyl decanoate analytical standard	ISO
155	158	Methyl eicosenoate	E6885-25MG	Germania	Sigma Aldrich	for GC. Ambalaj: 25mg	Methyl cis-11-eicosenoate ≥98%	ISO
156	159	Methyl behenate	11940-1G	Germania	Sigma Aldrich	for GC. Ambalaj: 1g	Methyl behenate analytical standard	ISO
157	160	Methyl Palmitoleate	P9667-100MG	Germania	Sigma Aldrich	for GC. Ambalaj: 100mg	Methyl palmitoleate ≥99% (capillary GC), liquid	ISO
158	161	Methyl linoleate	L1876-1G	Germania	Sigma Aldrich	for GC. Ambalaj: 1g	Methyl linoleate ≥98% (GC)	ISO
159	162	Methyl linolenate	L2626-100MG	Germania	Sigma Aldrich	for GC. Ambalaj: 100mg	Methyl linolenate ≥99% (GC)	ISO
160	163	Methyl tetracosanoate	L6766-100MG	Germania	Sigma Aldrich	for GC. Ambalaj: 100mg	Methyl tetracosanoate ≥99.0% (capillary GC)	ISO
161	164	Sodium hexanesulfonate monohydrate	52862-50G-F	Germania	Sigma Aldrich	for ion-pair chromatography; Conform Ph.Eur. White or almost white powder; Content: minimum 99.0 per cent. Ambalaj: 50 g	Sodium 1-hexanesulfonate monohydrate suitable for ion pair chromatography, LiChropur™, ≥99.0% (T)	ISO
162	165	Sodium sulfite	31454-500G	Germania	Sigma Aldrich	Conform Ph.Eur. White or almost white powder; Thiosulfates: max 0.1 per cent; Iron: max 10 ppm; Zinc: max 25 ppm; Assay: 95.0-100.5%; Ambalaj: 25g	Sodium sulfite puriss. p.a., reag. Ph. Eur., anhydrous, 98-100.0% (iodometric)	ISO
163	166	Acetonitrile	1000302500	Germania	Sigma Aldrich	99,9%; Reag. Ph. Eur.; gradul gradient;corespunde cu Acetonitril pentru cromatografie și Acetonitril R1 în conformitate cu Reag. Ph. Eur.;filtrat prin filtru de 0,2 μm;corespunde pentru utilizarea la echipamente UPLC/ UHPLC/ Ultra HPLC;colorație: ≤ 10 Hazen;apă: ≤ 0,02%; reziduu după evaporare: ≤ 2,0 mg/l;aciditate:≤0,0002meq/g; alcalinitate: ≤ 0,0002 meq/g; densitate:0,78(la 20°C);indice de refracție(n 20/D):1,344, se distilează la 80–82 °C:≥95%(v/v) Gradul gradient la 210 nm: ≤ 1,0 mAU, la 254 nm: ≤ 0,5 mAH; Absorbanță: ≤0,10 (la 200 nm);Transmisie:- la 193 nm: ≥ 60%;- la 195 nm: ≥ 80%;- la ≥ 230 nm: ≥ 98%, Fluorescență (ca chinină la 254 nm): ≤ 1,0 ppb, ≤ 0,5 ppb (ca chinină la 365 nm);Ambalaj: 2,5 L	Acetonitrile gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur, Merck	ISO
164	167	Ammonium sulfate	1012170100	Germania	Sigma Aldrich	Conform Ph.Eur. Colourless crystals or white or almost white granules, very soluble in water, practically insoluble in acetone and in ethanol (96 per cent); pH: 4.5 to 6.0; Sulfated ash: maximum 0.1%; Ambalaj 100 g	Ammonium sulfate for analysis EMSURE® ACS,ISO,Reag. Ph Eur, Merck	ISO
165	168	Potassium bromate	1049120100	Germania	Sigma Aldrich	Conform Ph.Eur. Ambalaj 100 g	Potassium bromate for analysis (max 0,000001% Hg) EMSURE® ACS,ISO,Reag. Ph Eur, Merck	ISO
166	169	Cerium sulfate tetrahydrate	31606-25G	Germania	Sigma Aldrich	Conform Ph.Eur.: Yellow or orange-yellow, crystalline powder or crystals, very slightly soluble in water, slowly soluble in dilute acids. Ambalaj 25 g	Cerium(IV) sulfate tetrahydrate puriss. p.a., ≥98%	ISO

167	170	Hydrazine sulfate salt	216046-5G	Germania	Sigma Aldrich	Conform Ph.Eur.: Colourless crystals, sparingly soluble in cold water, soluble in hot water (50 °C) and freely soluble in boiling water, practically insoluble in ethanol (96 per cent). Content: minimum 99 per cent. Ambalaj 5 g	Hydrazine sulfate salt ACS reagent, ≥99.0%	ISO
168	171	1-Naphtholbenzein	291099-5G	Germania	Sigma Aldrich	Conform Ph.Eur.: Brownish-red powder or shiny brownish-black crystals, practically insoluble in water, soluble in ethanol (96 per cent) and in glacial acetic acid. Ambalaj 5g	α-Naphtholbenzein indicator grade	ISO
169	172	Ammonium carbonate	207861-100G	Germania	Sigma Aldrich	Conform Ph.Eur.: White or almost white translucent mass, slowly soluble in about 4 parts of water. It is decomposed by boiling water. Ammonium carbonate liberates not less than 30 per cent m/m of NH ₃ (Mr 17.03). Ambalaj 100 g	Ammonium carbonate ACS reagent, ≥30.0% NH ₃ basis	ISO
170	173	Barium hydroxide octahydrate	217573-100G	Germania	Sigma Aldrich	Conform Ph.Eur.: Colourless crystals, soluble in water. Ambalaj 100 g	Barium hydroxide octahydrate ACS reagent, ≥98%	ISO
171	174	Cyclohexane	2483-1L	Germania	CHEMSOLUTE®	Conform Ph.Eur.: Clear, colourless, flammable liquid, practically insoluble in water, miscible with organic solvents. d ₂₀ about 0.78. bp about 80.5 °C. Ambalaj 100 mL	Cyclohexane p. a., ACS, ISO (min. 99.5 %), CHEMSOLUTE®	ISO
172	175	Sodium periodate	S1878-25G	Germania	Sigma Aldrich	assay: ≥99.0%, form: powder. Ambalaj 25 g	Sodium (meta)periodate ≥99.0%	ISO
173	176	Buffer sol. pH 9,18	51340042	Germania	Mettler-Toledo	Bufér, standard de referință, trasabil la materiale standard de referință N.I.S.T.; pH 9,18 (25 °C); Ambalaj: 0.25 L.	pH buffer solutions, NIST/DIN and certified buffer solutions for calibrating pH electrodes., Tolerance: ± 0.02, pH 9.18 NIST/DIN, Mettler-Toledo	ISO
174	177	Buffer sol. pH 1,68	30458274	Germania	Mettler-Toledo	pH 1,68 (25°C). Ambalaj: 0.25 L.	pH buffer solutions, NIST/DIN and certified buffer solutions for calibrating pH electrodes., Tolerance: ± 0.02, pH 1.679 NIST/DIN, Mettler-Toledo	ISO
175	178	Buffer solution pH 10,01	51350058	Germania	Mettler-Toledo	pH 10,01 (25°C). Ambalaj: 0,5 L.	pH buffer solutions, NIST/DIN and certified buffer solutions for calibrating pH electrodes., Tolerance: ± 0.02, pH 10.012 NIST/DIN, Mettler-Toledo	ISO
176	179	Sodium nitrite	31443-100G	Germania	Sigma Aldrich	Conform Ph.Eur. assay ≥97.0%. Ambalaj: 100 g	Sodium nitrite puriss. p.a., ACS reagent, reagent. Ph. Eur., ≥99%	ISO
177	180	Triethylamine	471283-100ML	Germania	Sigma Aldrich	Conform Ph.Eur. Colourless liquid, slightly soluble in water at a temperature below 18.7 °C, miscible with ethanol (96 per cent); density: about 0.727; viscosity: about 1.401; Assay ≥99.5%; Ambalaj 100 mL	Triethylamine ≥99.5%	ISO
178	181	Tetrakis(decyl)ammonium bromide	87578-10G-F	Germania	Sigma Aldrich	suitable for ion pair chromatography, Assay assay ≥99.0%. Ambalaj: 10g	Tetrakis(decyl)ammonium bromide suitable for ion pair chromatography, LiChropur™, ≥99.0% (AT)	ISO
179	182	Sucrose	PHR1001-1G	Germania	Sigma Aldrich	CRM for polarimeter cu incertitudinea (u); Ambalaj: 1 g	Sucrose Pharmaceutical Secondary Standard; Certified Reference Material	ISO
180	183	tri-Sodium phosphate anhydrous	23442991	Germania	Molekula	Conform Ph.Eur.: White or almost white powder, hygroscopic. Ambalaj 250 g	tri-Sodium phosphate anhydrous min 98% (23442991 7601-54-9), Molekula	ISO
181	184	Sodium hypophosphite monohydrate	S5012-500G	Germania	Sigma Aldrich	Conform Ph.Eur.: Ambalaj 500 g	Sodium hypophosphite monohydrate ≥99%	ISO
182	185	di-Sodium hydrogen phosphate anhydrous	131679,121	Germania	AppliChem	Conform Ph.Eur. Ambalaj 500 g	di-Sodium Hydrogen Phosphate anhydrous (Reagent. Ph. Eur.) for analysis, ACS, AppliChem	ISO

183	186	Disodium tetraborate decahydrate	S9640-25G	Germania	Sigma Aldrich	Conform Ph.Eur.: Content: 99.0 per cent to 103.0 per cent of Na ₂ B ₄ O ₇ ·10H ₂ O. Appearance: white or almost white, crystalline powder, colourless crystals or crystalline masses, efflorescent. Solubility: soluble in water, very soluble in boiling water, freely soluble in glycerol. pH: 9.0 to 9.6. Sulfates: maximum 50 ppm. Ammonium: maximum 10 ppm. Calcium: maximum 100 ppm. Ambalaj: 25g	Sodium tetraborate decahydrate ACS reagent, ≥99.5%	ISO
184	187	Zinc	612000800	Germania	CARLO ERBA	volumetric standard; Conform Ph.Eur.: Content: minimum 99.9%. Ambalaj 100 g	Zinc standard solution RS - For analysis according to Ph. Eur. Chap. 4.2.1, CARLO ERBA	ISO
185	188	Phenylhydrazine hydrochloride	114715-5G	Germania	Sigma Aldrich	Conform Ph.Eur: White or almost white, crystalline powder, becoming brown on exposure to air, soluble in water and in ethanol (96 per cent). mp: about 245 °C, with decomposition. Ambalaj 5 g	Phenylhydrazine hydrochloride ≥99%	ISO
186	189	Pyridine anhydrous	270970-100ML	Germania	Sigma Aldrich	Conform Ph.Eur: Clear, colourless liquid, hygroscopic, miscible with water and with ethanol (96 per cent). bp: about 115 °C, water: max.0.01% Ambalaj 100 mL	Pyridine anhydrous, 99.8%	ISO
187	190	Sodium chloride	241659,1608	Germania	AppliChem	volumetric standard, secondary reference material for argentometry. Ambalaj 80 g	Sodium Chloride standard for volumetry, ACS, ISO, Traceability: NIST Assay (Arg.) (after drying at 110°C): 99.95-100.05%, pH of 5% solution: 5.0-8.0, AppliChem	ISO
188	191	Dibutylamine	471232-100ML	Germania	Sigma Aldrich	conform Ph.Eur. Ambalaj: 50ml	Dibutylamine ≥99.5%	ISO
189	192	Diethylamine	471216-100ML	Germania	Sigma Aldrich	Content: minimum 99.5 per cent; Relative density about 0.71; bp: about 55 °C. Ambalaj: 100ml.	Diethylamine ≥99.5%	ISO
190	193	Hexadecyltrimethylammonium bromide	H5882-100G	Germania	Sigma Aldrich	Assay: ≥98%; Ambalaj: 100g	Hexadecyltrimethylammonium bromide ≥98%	ISO
191	194	tert-Butanol	19460-500ML	Germania	Sigma Aldrich	Assay: ≥99.0%; Ambalaj: 500 mL	tert-Butanol puriss. p.a., ACS reagent, ≥99.7% (GC)	ISO
192	195	Hexylamine	219703-5ML	Germania	Sigma Aldrich	Conform Ph.Eur. Colourless liquid, slightly soluble in water, soluble in ethanol (96 per cent); density: about 0.766; viscosity: about 1.418; bp: 127 °C to 131 °C; Assay: 99%; Ambalaj: 5 mL	Hexylamine 99%	ISO
193	196	dimethyl sulfoxide	34943-2.5L-M	Germania	Sigma Aldrich	conform Ph.Eur, for GC-HeadSpace. Ambalaj: 2.5L	Dimethyl sulfoxide puriss. p.a., dried, ≤0.02% water	ISO
194	197	Hydrogen peroxide 30 weight % solution	95294-1L	Germania	Sigma Aldrich	Content: 29.0% - 31.0% m/m; Acidity conform Ph.Eur.; Organic stabilisers: maximum 500 ppm; Non-volatile residue: maximum 2 g/L. Ambalaj: 2.5L.	Hydrogen peroxide solution tested according to Ph. Eur. 29.0-31.0% (M/M)	ISO
195	198	Formaldehyde	15512-1L-R	Germania	Sigma Aldrich	Conform Ph.Eur. Clear, colourless liquid; Content: 34.5 per cent m/m to 38.0 per cent m/m of formaldehyde; Sulfated ash: max 0.1 per cent; Ambalaj: 500mL	Formaldehyde solution meets analytical specification of USP, ≥34.5 wt. %	ISO
196	199	Trichloroacetic acid	T6399-5G	Germania	Sigma Aldrich	conform PhEur; 98.0 % to 100.5%; Chlorides: maximum 100 ppm; Sulfated ash: maximum 0.1%. Ambalaj: 5 g.	Trichloroacetic acid ACS reagent, ≥99.0%	ISO
197	200	Aluminium oxide basic	199443-100G	Germania	Sigma Aldrich	Conform Ph.Eur., for column chromatography, Particle size: 75 µm to 150 µm. pH : 9 to 10; Ambalaj: 100g	Aluminum oxide, activated, basic, Brockmann I, for column chromatography and adsorptive filtration	ISO
198	201	Sodium taurocholate hydrate	86339-1G	Germania	Sigma Aldrich	Solubility: H ₂ O: 50 mg/mL, clear; Assay: ≥97.0%; impurities: ≤1% taurine, ≤2% cholic acid; Ambalaj: 1g.	Sodium taurocholate hydrate ≥97.0% (TLC)	ISO

199	202	Tin	4016,2	Germania	Roth	Conform Ph.Eur. Silvery-white granules, soluble in hydrochloric acid with release of hydrogen; Arsenic: max 10 ppm; Ambalaj: 50 g	Tin granules min. 99,8 %, p.a., granulated, Roth	ISO
200	203	4-(Dimethylamino)benzaldehyde	33130-100G	Germania	Sigma Aldrich	Conform Ph.Eur. White or yellowish-white crystals, soluble in ethanol (96 per cent) and in dilute acids; mp: about 74 °C; Ambalaj: 25 g.	4-(Dimethylamino)benzaldehyde puriss. p.a., reagent Ph. Eur., ≥99% (perchloric acid titration)	ISO
201	204	1,2-Naphthoquinone-4-sulfonic acid sodium salt	70382-10G	Germania	Sigma Aldrich	Assay: 97%; Ambalaj: 10 g	Sodium 1,2-naphthoquinone-4-sulfonate for spectrophotometric det. of isonicotinic hydrazide, amines and amino acids, ≥97.0% (T)	ISO
202	205	Chloramine T trihydrate	31224-100G	Germania	Sigma Aldrich	Conform Ph.Eur. White or slightly yellow, crystalline powder; pH: 8.0 to 10.0; Ambalaj: 5g.	Chloramine T trihydrate reagent Ph. Eur., 98.0-103.0%	ISO
203	206	Arsenic(III) oxide	A1010-25G	Germania	Sigma Aldrich	Conform Ph.Eur. Crystalline powder or a white or almost white mass, slightly soluble in water, soluble in boiling water; Assay :≥99.0%; Ambalaj: 25 g.	Arsenic(III) oxide ReagentPlus®, ≥99.0%	ISO
204	207	(Ethylenedinitrilo)tetra-acetic acid	E9884-100G	Germania	Sigma Aldrich	Conform Ph.Eur. White or almost white crystalline powder, very slightly soluble in water; mp: about 250 °C; Assay: ≥98.5%, Ambalaj: 100g	Ethylenediaminetetraacetic acid ACS reagent, 99.4-100.6%, powder	ISO
205	208	Sodium metabisulfite	31448-500G	Germania	Sigma Aldrich	Conform Ph.Eur. White or almost white, crystalline powder or colourless crystals; pH: 3.5 to 5.0; Iron: maximum 20 ppm; Content: 95.0 per cent to 100.5 per cent; Ambalaj: 250g	Sodium metabisulfite puriss. p.a., ACS reagent, reagent Ph. Eur., dry, 98-100.5%	ISO
206	209	cafein	PHR1095-1G	Germania	Sigma Aldrich	CRM for melting point cu incertitudine. Ambalaj: 1g	Caffeine Melting Point Standard Pharmaceutical Secondary Standard; Certified Reference Material	ISO
207	210	vanilin	PHR1091-1G	Germania	Sigma Aldrich	CRM for melting point cu incertitudine. Ambalaj: 1g	Vanillin melting point standard Pharmaceutical Secondary Standard; Certified Reference Material	ISO
208	212	Holmium(III) oxide	004136-5G	Germania	ChemPUR	conform Ph.Eur. Ambalaj: 5g.	Holmium oxide/ 99.9% (REO) Ho2O3/ F.W. 377.86/ powder, ChemPUR	ISO
209	213	Nicotinic acid	Y0001995	Germania	Sigma Aldrich	For equipment qualification, European Pharmacopoeia (EP) Reference Standard; Ambalaj: 1 g	Nicotinic acid for equipment qualification European Pharmacopoeia (EP) Reference Standard	ISO
210	214	fuchsin (CAS: 632-99-5)	GT2169-5G	Germania	ChemPUR	Conform Ph.Eur., A mixture of rosaniline hydrochloride (Colour Index No. 42510; Schultz No. 780) and para-rosaniline hydrochloride (Colour Index No. 42500; Schultz No. 779). Ambalaj: 5g	Basic Fuchsin (C.I. 42510), ChemPUR	ISO

Semnata: _____

Valabilitatea ofertei: **60 zile**

Numele, Prenumele: **Michiciuc Gheorghe**

06.03.2023

In calitate de: **Director**

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