

SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: ocds-b3wdp1-MD-1645711689480 din 01.03.2022

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

<i>Nr. d/o</i>	<i>Codul CPV</i>	<i>Denumirea bunurilor și specificația tehnică deplină solicitată</i>	<i>Modelul articolu- lui</i>	<i>Țara de origine</i>	<i>Producătorul</i>	<i>Specificarea tehnică deplină</i>	<i>Specificarea tehnică deplină propusă de către ofertant</i>	<i>Standarde de referință</i>
1	33696500-0	Sulfuric acid	30743-1	Germania	Sigma-Aldrich	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% amb.1L	ISO
2	33696500-0	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% amb.100G	ISO
3	33696500-0	Sodium hydroxide	30620-1KG	Germania	Sigma-Aldrich	Conform Ph.Eur.; Content: 97.0 to 100.5%; (CO32-)max. 2.0%; (Cl-)-max. 200ppm; (SO42-)-max. 200ppm; (Fe)-max. 10ppm; Ambalaj: 1 kg.	Sodium hydroxide puriss. p.a., ACS reagent, reag. Ph. Eur., K ≤0.02%, ≥98%, pellets 1KG	ISO
5	33696500-0	Heptafluorobutyric acid	52411-25ML-F	Germania	Sigma-Aldrich	Clear, colourless liquid. For chromatography; Content: minimum 99.5 %.; Relative density: 1.645; Refractive index: about 1.300. Ambalaj: 25ml	Heptafluorobutyric acid suitable for ion chromatography, ≥99.5% (GC) amb.25ML	ISO

6	33696500-0	Acetonitrile	221881.1612	Germania	AppliChem	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: ≤ 0,0002 meq/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 litri	Acetonitrile (Reag. Ph. Eur.) for UHPLC Supergradient, ACS amb. 2,5L	ISO
7	33696500-0	Metanol HPLC	221091.1612	Germania	AppliChem	≥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 litri.	Methanol (Reag. Ph. Eur.) for UHPLC Supergradient, ACS amb. 2,5L	ISO
8	33696500-0	Phosphoric acid	30417-1L	Germania	Sigma-Aldrich	84,0-90,0% m/m; Cloruri: max.50 ppm; Sulfati: max.100ppm; Fier: max.50ppm; conform Ph.Eur. Ambalaj: 1 L.	Phosphoric acid puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥85% amb.1L	ISO
9	33696500-0	Buffer solution, pH 6,86	7981870	Germania	Thermo	pH 6,86 (25°C). Ambalaj: 0,5 L.	pH buffer solutions Eutech™, Thermo, According to Directive 67/548/EEC or Directive 1999/45/EC. Bottles of 480 ml	ISO
11	33696500-0	Buffer solution pH 4.01	6078957	Germania	Hamilton	pH 4,01 (25°C). Ambalaj: 0,5 L.	Buffer Solutions - Duracal pH Buffer 4.01, Certified traceable to primary SRM from NIST/PTB, Hamilton amb.0,5L	ISO
12	33696500-0	Buffer solution pH 10.01	6079275	Germania	Hamilton	pH 10,01 (25°C). Ambalaj: 0,5 L.	Buffer Solutions - Duracal pH Buffer 10.01, Certified traceable to primary SRM from NIST/PTB, Hamilton amb.0,5L	ISO
13	33696500-0	Buffer solution pH 7.00	6078958	Germania	Hamilton	pH 7,00 (25°C). Ambalaj: 0,5 L.	Buffer Solutions - Duracal pH Buffer 7.00, Certified traceable to primary SRM from NIST/PTB, Hamilton amb.0,5L	ISO
14	33696500-0	Buffer solution pH 1.68	9221097	Germania	Hamilton	pH 1,68 (25°C). Ambalaj: 1 L.	Buffer Solutions - Duracal pH Buffer 1.68, Certified traceable to primary SRM from NIST/PTB, Hamilton amb.0,5L	ISO
15	33696500-0	Tert-Butyl methyl ether	34875-100ML	Germania	Sigma-Aldrich	Conform Ph.Eur.; ≥ 99,5% for HPLC, GC; Colourless, clear, flammable liquid; Refractive index: about 1.376; density about:0.741; bp: about 55 °C;Absorbance: max.0.30 at 240 nm, 0.10 at 255 nm, 0.01 at 280 nm, determined using water R as compensation liquid. Ambalaj: 100ml.	tert-Butyl methyl ether suitable for HPLC, ≥99.8% amb.100ML	ISO

16	33696500-0	Toluene	0202 0202	Ungaria	Mol	Reagent Ph. Eur., ≥99.9%, densitate: 0.87 g/mL (20 °C); temperatura de fierbere: 110.6 °C; ; ambalaj: 1 L.	Toluene MOL 0202 0202, ≥99.97% amb 1 L	ISO
17	33696500-0	Trometamol standard	30721-2.5L	Germania	Sigma-Aldrich	volumetric standard, secondary reference material for acidimetry, traceable to NIST Standard Reference Material (SRM); Ambalaj: 80g.	Tris(hydroxymethyl)aminomethane, volumetric standard, secondary reference material for acidimetry, traceable to NIST Standard Reference Material (SRM) Certipur® Reag. Ph Eur, Reag. USP amb.2,5L	ISO
18	33696500-0	Hydrochloric acid, concentrated	30721-2.5L	Germania	Sigma-Aldrich	35-39% (m/m); Free chlorine: max. 4 ppm; Sulfates: max. 20 ppm; Residue on evaporation: max. 0.01%. Ambalaj: 2.5L.	Hydrochloric acid puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., fuming, ≥37%, APHA: ≤10 amb.2,5L	ISO
19	33696500-0	Sodium tartrate dihydrate	34803-100G	Germania	Honeywell	Volumetric standard for water determination acc.to Karl Fischer, contains 15.66% H2O; titrare cu acid percloric: 99.5 - 101.0%; pierdere prin uscare (150 °C): 15.61 - 15.71%. Ambalaj: 100 g.	Sodium tartrate dihydrate, Test substance for volumetric Karl Fischer titration (water content ~15.66%, exact value on report of analysis) - HYDRANAL™ amb.100G	ISO
20	33696500-0	Nickel-aluminium alloy	72240-100G	Germania	Sigma-Aldrich	contains 50% Al, 50% Ni. Ambalaj: 100g.	Aluminum-nickel alloy purum, 50% Al basis, 50% Ni basis amb.100G	ISO
21	33696500-0	(+)-Isomenthone.	PHL89328-100MG	Germania	Sigma-Aldrich	Conform Ph.Eur. A colourless liquid, very slightly soluble in water, soluble in ethanol (96%). density: about 0.904; refractive index: about 1.453; optical activity: about + 93.2. Suitable for Gas chromatography; Content: minimum 80.0%, calculated by the normalisation procedure. Ambalaj: 100 mg.	Isomenthone phyproof® Reference Substance amb. 100MG	ISO
22	33696500-0	Sabinene	PHL82342-100MG	Germania	Sigma-Aldrich	Conform Ph.Eur.: A colourless, oily liquid, suitable for Gas chromatography. Content: minimum 95.0%, calculated by the normalisation procedure. Ambalaj: 100mg.	Sabinene phyproof® Reference Substance amb.100MG	ISO
23	33696500-0	Piperitone	PHL82627-100MG	Germania	Sigma-Aldrich	mixture of enantiomers, suitable for GC. Ambalaj: 100mg.	Piperitone phyproof® Reference Substance amb.100MG	ISO
24	33696500-0	Uracil	U0750-5G	Germania	Sigma-Aldrich	Reagent Ph. Eur., ≥99.0%, numărul CAS: 66-22-8; temperatura de topire: >300 °C; Ambalaj: 5g.	Uracil ≥99.0% amb.5G	ISO
28	33696500-0	N,N-diethyl-m-toluamide	D100951-100G	Germania	Sigma-Aldrich	Reagent Ph. Eur., ≥98.0%; CAS: 134-62-3; densitate: 0.996 g/ml (20 C); indice de refracție: n20/D 1.52; ambalaj: 100 g.	N,N-Diethyl-3-methylbenzamide 97% amb.100G	ISO
29	33696500-0	Phenacetin	PHR1249-1G	Germania	Sigma-Aldrich	CRM for melting point cu incertitudinea. Ambalaj: 2g	Phenacetin Pharmaceutical Secondary Standard; Certified Reference Material amb.1G	ISO
30	33696500-0	Caffein	PHR1009-1G	Germania	Sigma-Aldrich	CRM for melting point cu incertitudinea. Ambalaj: 2g	Caffeine Pharmaceutical Secondary Standard; Certified Reference Material amb.1G	ISO
31	33696500-0	Vanilin	PHR1091-1G	Germania	Sigma-Aldrich	CRM for melting point cu incertitudinea. Ambalaj: 2g	Vanillin, melting point standard, Pharmaceutical Secondary Standard; Certified Reference Material amb.1G	ISO
32	33696500-0	Titrant 5	34801-1L	Germania	Honeywell	titrant for volumetric Karl Fischer titration with two component reagents; titr-5 mg H2O/ml. Ambalaj: 1L.	HYDRANAL™ - Titrant 5, Titrating agent for volumetric two-component Karl Fischer titration (methanol-based), Honeywell amb. 1L	ISO
33	33696500-0	Solvent Karl Fischer	34800-2.5L	Germania	Honeywell	solvent for volumetric Karl Fischer titration with two component reagents. Ambalaj: 2.5L.	HYDRANAL™ - Solvent, Medium for volumetric two-component Karl Fischer titration (methanol-based), Honeywell amb. 2,5L	ISO
34	33696500-0	Hexadecyltrimethylammonium bromide	H5882-100G	Germania	Sigma-Aldrich	≥98.0%; Ambalaj: 100g.	Hexadecyltrimethylammonium bromide ≥98% amb. 100G	ISO

35	33696500-0	Sucrose	16104-250G	Germania	Sigma-Aldrich	conform Ph.Eur; Conductivity: max. 35 µS/cm at 20°C; Specific optical rotation: + 66.3 to + 67.0; Colour value: max. 45; Reducing sugars - conform Ph.Eur; Sulfites: max. 10 ppm, calculated as SO ₂ ; Loss on drying: max.0.1%, determined on 2.000 g by drying in an oven at 105 °C for 3 h. Ambalaj: 250g.	Sucrose puriss., meets analytical specification of Ph. Eur., BP, NF amb. 250G	ISO
36	33696500-0	Dimethyldecylamine	464287-10ML	Germania	Sigma-Aldrich	Content: minimum 98.0% m/m; bp: about 234 °C. Ambalaj: 10ml.	N,N-Dimethyldecylamine 98% amb. 10ML	ISO
37	33696500-0	Pararosaniline hydrochloride	P3750-25G	Germania	Sigma-Aldrich	Bluish-red, crystalline powder, slightly soluble in water, soluble in anhydrous ethanol; CAS number: [569-61-9]; mp: about 270 °C, with decomposition. Ambalaj: 25g.	Basic Fuchsin certified by the Biological Stain Commission, Dye content ≥88 % amb. 25G	ISO
38	33696500-0	Peroxid de hydrogen 30%	28470000	Ucraina	Macrochem	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.	Peroxid de hydrogen 35%,cpa amb. 20L	ISO
39	33696500-0	Potassium dihydrogen phosphate	04243-1KG	Germania	Sigma-Aldrich	conform Ph.Eur; 98,0-100,5%(dried substance); Cloruri: max.200ppm; Sulfati: max.300ppm; Arsenic: max.2ppm; Fier: max.10ppm; Pierdere prin uscare: max.2,0%; Ambalaj: 1 kg.	Potassium phosphate monobasic meets analytical specification of Ph. Eur., NF, E340, anhydrous, 98-100.5% (calc. to the dried substance) amb.1KG	ISO
40	33696500-0	di-Potassium hydrogen phosphate	60356-1KG	Germania	Sigma-Aldrich	98.0 - 101.0 % (dried substance); Monopotassium phosphate: maximum 2.5%; Chlorides: maximum 200 ppm; Sulfates: maximum 0.1 %; Iron: maximum 10 ppm; Sodium: maximum 0.1 %; Loss on drying: maximum 2.0 per cent. Ambalaj: 1kg.	Potassium phosphate dibasic puriss. p.a., ACS reagent, anhydrous, ≥99.0% (T) amb. 1KG	ISO
41	33696500-0	Di-Sodium hydrogen phosphate dodecahydrate	04273-1KG	Germania	Sigma-Aldrich	98.5-102.5; Reducing substances conform Ph.Eur. Monosodium phosphate: max 2.5%; Chlorides: max 200ppm; Sulfates: max 500ppm; Iron: max 20ppm; Loss on drying: 57-61% (130 °C for 4 h.); Ambalaj: 1kg.	Sodium phosphate dibasic dodecahydrate meets analytical specification of Ph. Eur., BP, E339, 98.5-102.5% (T) amb. 1KG	ISO
42	33696500-0	Sodium dihydrogen phosphate	04269-1KG	Germania	Sigma-Aldrich	99.0-101.0%. Ambalaj: 1 kg.	Sodium phosphate monobasic dihydrate meets analytical specification of Ph. Eur., BP, USP, FCC, E 339, 98-100.5% (calc. to the dried substance) amb. 1KG	ISO
43	33696500-0	Sodium acetate trihydrate	25022-1KG-R	Germania	Sigma-Aldrich	99.0-101.0; pH= 7.5-9.0 la soluția S conform Ph.Eur.; Reducing substances conform Ph.Eur. Chlorides: max 200ppm; Sulfates: max 200ppm; Aluminium: max 0,2 ppm; Calcium and magnesium: max 50 ppm; Iron; max 10 ppm; Loss on drying: 39.0 - 40.5 (130 °C); Ambalaj: 1kg.	Sodium acetate trihydrate puriss., meets analytical specification of Ph. Eur., BP, USP, FCC, E262, 99.0-101.0% (calc. to the dried substance), ≤0.00002% Al amb. 1KG	ISO
44	33696500-0	Ammonium formate	21369435-500G	Germania	Molecula	min. 99.0%; Ambalaj: 250g.	Ammonium formate (21369435 540-69-2),99% min. amb. 500G	ISO
45	33696500-0	Diethylamine	71216-500ML	Germania	Sigma-Aldrich	Content: minimum 99.5 per cent; Relative density about 0.71; bp: about 55 °C. Ambalaj: 0.5L.	Diethylamine ≥99.5% amb. 500 ML	ISO
46	33696500-0	2-propanol	34863-1L	Germania	Sigma-Aldrich	CAS-[67-63-0]. indice de refracție: about 1.378; Water: max. 0.05%; Absorbance: max. 0.60 at 210 nm, 0.26 at 220 nm, 0.13 at 230 nm, 0.02 at 250 nm, 0.01 at 260 nm, determined using water R as compensation liquid; Acidity or alkalinity: Ph.Eur. Coresp.; Ambalaj: 1L.	2-Propanol suitable for HPLC, 99.9% amb.1L	ISO

47	33696500-0	Trometamol	T1503-100G	Germania	Sigma-Aldrich	99.0-100.5% (dried subst); pH 10.0 to 11.5; Related substances conform Ph.Eur; Chlorides max 100ppm; Iron max. 10ppm; Loss on drying max 0.5%; Sulfated ash max 0.1%; Ambalaj: 100g.	Trizma® base Primary Standard and Buffer, ≥99.9% (titration), crystalline amb. 100G	ISO
48	33696500-0	Potassium hydrogen phthalate standart	241481,1608	Germania	AppliChem	Volumetric standard, certified reference material for alkalimetry, traceable to NIST. Ambalaj: 100g.	Potassium Hydrogen Phthalate standard for volumetry, ACS, ISO, Traceability: NIST, Assay (Acidim.) (after drying at 105°C): 99.95-100.05% AppliChem amb. 100 G	ISO
49	33696500-0	Potassium dichromate	20512,0601	Germania	Kraft	volumetric standard, secondary reference material for redox titration, traceable to NIST SRM Certipur® Reag. USP. Ambalaj: 80g.	Potassium dichromate basic substance secondary reference material tracable to NIST, Kraft amb. 80G	ISO
50	33696500-0	Potassium dichromate	P5271-500G	Germania	Sigma-Aldrich	not less than 99.9 per cent of K ₂ Cr ₂ O ₇ , calculated with reference to the substance dried at 130 °C.Ambalaj: 100g.	Potassium dichromate ReagentPlus®, ≥99.5% amb. 500 G	ISO
51	33696500-0	Acid sulfanilic	251917-100G	Germania	Sigma-Aldrich	reag.Ph.Eur; Ambalaj: 100g.	Sulfanilic acid ACS reagent, 99% amb. 100 G	ISO
52	33696500-0	Phosphomolybdic acid	221856-100G	Germania	Sigma-Aldrich	CAS number [51429-74-4]; reag.Ph.Eur; Ambalaj: 100g.	Phosphomolybdic acid hydrate ACS reagent amb. 100 G	ISO
53	33696500-0	Silicotungstic acid	95395-50G	Germania	Sigma-Aldrich	CAS number [11130-20-4]; reag.Ph.Eur; Ambalaj: 50g.	Tungstosilicic acid hydrate purum p.a. amb. 50 G	ISO
54	33696500-0	Conductivity solution 5mkS/cm	CSKC5	Germania	Reagecon	5mkS/cm (25°C). Ambalaj: 0,25 L.	Conductivity Standards 5µS/cm, Reagecon amb. 500 ML	ISO
55	33696500-0	Conductivity solution 50mkS/cm	CSKC50	Germania	Reagecon	50mkS/cm (25°C). Ambalaj: 0,25 L.	Conductivity Standards 5µS/cm, Reagecon amb. 500 ML	ISO
56	33696500-0	Conductivity solution 84mkS/cm	CSKC84	Germania	Reagecon	84mkS/cm (25°C). Ambalaj: 0,25 L.	Conductivity Standards 84µS/cm, Reagecon amb. 500 ML	ISO
57	33696500-0	Potassium chromate	31250-250G	Germania	Honeywell	reag Ph.Eur. Ambalaj:100g.	Potassium chromate, puriss. p.a., ACS Reagent, Reag. Ph. Eur., ≥99.5%, Honeywell amb. 250G	ISO
58	33696500-0	Mohr salt (Fe(NH ₄) ₂ (SO ₄) ₂ *6H ₂ O)	215406-100G	Germania	Sigma-Aldrich	reag Ph.Eur. Ambalaj:100g.	Ammonium iron(II) sulfate hexahydrate ACS reagent, 99% amb. 100G	ISO
59	33696500-0	Formaldehyde	15512-1L-R	Germania	Sigma-Aldrich	34.5 % m/m to 38.0 % m/m; Sulfated ash: max. 0.1%; Methanol 9.0-15.0% (V/V). Ambalaj: 1 L.	Formaldehyde solution meets analytical specification of USP, ≥34.5 wt. % amb. 1L	ISO
60	33696500-0	Titrant 5 for KF one component titration	34816-1L	Germania	Honeywell	one-component reagent for volumetric Karl Fischer titration; titr-5 mg H ₂ O/ml. Ambalaj: 1L.	HYDRANAL™ - Composite 5 K, Titrating agent for volumetric one-component Karl Fischer titration in aldehydes and ketones (methanol free), Honeywell amb.1L	ISO
61	33696500-0	Glycerine	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 amb. 1L	ISO

62	33696500-0	Ascorbic acid	33034-100G	Germania	Sigma-Aldrich	Content: 99.0- 100.5 %; pH: 2.1 to 2.6 for solution S conform Ph.Eur.; Specific optical rotation: + 20.5 to + 21.5; Related substances (HPLC) - conform Ph.Eur; Impurity E: maximum 0.2 %; Copper: maximum 5 ppm; Iron: maximum 2 ppm; Sulfated ash: maximum 0.1%; Ambalaj: 50g.	L-Ascorbic acid puriss. p.a., ACS reagent, reag. ISO, Ph. Eur., 99.7-100.5% (oxidimetric) amb. 100G	ISO
63	33696500-0	NaCl	31434-1KG-R	Germania	Sigma-Aldrich	Content: 99.0% to 100.5%; Acidity or alkalinity conform Ph.Eur.; Bromides: maximum 100 ppm; Ferrocyanides conform Ph.Eur.; Iodides conform Ph.Eur. Nitrites conform Ph.Eur. Phosphates: maximum 25 ppm; Sulfates: maximum 200 ppm; Aluminium: maximum 0.2 ppm; Arsenic: maximum 1 ppm; Barium conform Ph.Eur.; Iron: maximum 2 ppm, determined on solution S; Magnesium and alkaline-earth metals: maximum 100 ppm; Potassium: maximum 500 ppm; Loss on drying: maximum 0.5 per cent; Ambalaj: 1kg	Sodium chloride puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.5% amb. 1 Kg	ISO
64	33696500-0	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) amb. 2,5L	ISO
65	33696500-0	HEXAN	34859-2.5L	Germania	Sigma-Aldrich	≥98,0% (GC), gradul: pentru HPLC; impurități: ≤0,0005% substanțe nevolatile; ≤0,001% acid liber (ca CH3COOH); ≤0,01% apă (prin Karl Fischer);reziduu după evaporare: ≤ 1 mg/l; aciditate:≤ 0.0002 meq/g; alcalinitate: ≤ 0.0002 meq/g; indice de refracție n20/D: 1,375;densitate: 0,66 g/mL (la 20 °C); transitanță la 210 nm: ≥50%; la 220nm: ≥85%; la 245nm: ≥98%. Temperatura de fierbere: 69 °C; Temperatura de topire: – 94,3 °C;UV absorbție (referință: apă):la 200 nm: Amax: ≤0.70, la 225 nm: Amax: ≤0.10, la 250 nm: Amax: ≤0.01. Ambalaj: 2,5 L	Hexane suitable for HPLC, ≥97.0% (GC) amb. 2,5L	ISO
66	33696500-0	Potassium iodide	03124-1KG	Germania	Honeywell	99,0-100,5%(dried subst); Iodates: conform Ph.Eur; Sulfates: max.150ppm; Thiosulfates: conform Ph.Eur; Iron: max.20ppm; Loss on drying: max.1,0%. Ambalaj: 1kg.	Potassium iodide, puriss., meets analytical specification of Ph. Eur. BP, USP, 99,0-100,5% (calc. to the dried substance), Honeywell amb. 1 Kg	ISO
67	33696500-0	Nitric acid	30709-1L	Germania	Honeywell	Content: 63.0 per cent m/m to 70.0 per cent m/m.; Relative Density: 1.384 to 1.416; Chlorides: maximum 0.5 ppm; Sulfates: maximum 2 ppm; Arsenic: maximum 0.02 ppm.; Iron: maximum 1 ppm.; Heavy metals: maximum 2 ppm.; Sulfated ash: maximum 0.001%; Ambalaj: 1L.	Nitric acid, puriss. p.a., Reag. ISO, Reag. Ph. Eur., for determinations with dithizone, ≥65%, Honeywell amb. 1L	ISO
68	33696500-0	Ammonium chloride	31107-500G	Germania	Honeywell	conform PhEur; 99.0 % to 100.5 %(dried substance); Bromides and iodides: comply; Sulfates: maximum 150 ppm; Calcium: maximum 200 ppm; Iron: maximum 20 ppm; Loss on drying: maximum 1.0%; Sulfated ash: maximum 0.1%. Ambalaj: 500 g.	Ammonium chloride, puriss. p.a., ACS Reagent, Reag. ISO, Reag. Ph. Eur., ≥99.5%, Honeywell amb. 500G	ISO
69	33696500-0	Pyrocatechol	C9510-100G	Germania	Sigma-Aldrich	conform Ph.Eur. Ambalaj: 100g.	Pyrocatechol 99% amb. 100G	ISO
70	33696500-0	Potassium bromide	243418-100G	Germania	Sigma-Aldrich	Gradul reagent, reag. Ph. Eur. Ambalaj: 100 g.	Potassium bromide, ACS reagent, ≥99.0% amb. 100G	ISO

71	33696500-0	Acetic acid	33209-2.5L	Germania	Sigma-Aldrich	99-100,5% m/m; Reducing substances-comply Ph.Eur.; Chlorides- max.25mg/L; Sulfates-max.50mg/L; Iron- max.5ppm; Residue on evaporation: max. 0.01%; Ambalaj: 2,5L.	Acetic acid glacial, puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., $\geq 99.8\%$ amb. 2,5L	ISO
72	33696500-0	Holmium(III) oxide	H9750-10G	Germania	Sigma-Aldrich	conform Ph.Eur. Ambalaj: 5g.	Holmium(III) oxide $\geq 99.9\%$ (rare earth content, expressed as Ho ₂ O ₃) amb. 10G	ISO
73	33696500-0	Vanilin	V1104	Germania	Sigma-Aldrich	conform Ph Eur. Ambalaj: 10g.	Vanillin No rating value average rating value is 0.0 of 5. Read 0 Reviews Same page link. (0) ReagentPlus®, 99% amb. 10G	ISO
74	33696500-0	Molecular sieves	208604-250G	Germania	Sigma-Aldrich	Pore size: 4Å; with moisture indicator. Ambalaj: 250g.	Molecular sieves, 4 Å No rating value average rating value is 0.0 of 5. Read 0 Reviews Same page link. (0) beads, 8-12 mesh amb. 250g	ISO
97	33696500-0	Placi cromatografie fără UV	PTSH-AΦ-УΦ	Rusia	Sorbfil	20x20 aluminiu, amb-25 buc	10x15 aluminiu, amb-25 buc , amb. 50 buc	ISO
98	33696500-0	Pipete gradate cu volumul 5ml, clasa AS	021.01.005	Germania	Isolab	Manufactured from neutral tubing according to ISO 648 and DIN 12687 (for volumetric pipettes), ISO 835 and DIN (for graduated pipettes) standards. Clasa AS, TYPE 1 (Pipete gradate de sticla cu volumul 5 ml, gradatia 0,02 ml, cu scurgere partiala, tip 1(cu 2 cote: gradatia "0" in partea superioara a pipetei, a doua cota in apropierea varfului. Clasa AS, toleranta ± 0.01 ml)	Pipete gradate cu volumul 5ml, clasa AS	ISO
99	33696500-0	Pipete gradate cu volumul 10,0ml, clasa AS	021.01.010	Germania	Sigma-Aldrich	Manufactured from neutral tubing according to ISO 648 and DIN 12687 (for volumetric pipettes), ISO 835 and DIN (for graduated pipettes) standards. Clasa AS, TYPE 1 (Pipete gradate de sticla cu volumul 10 ml, gradatia 0,02 ml, cu scurgere partiala, tip 1(cu 2 cote: gradatia "0" in partea superioara a pipetei, a doua cota in apropierea varfului. Clasa AS, toleranta ± 0.01 ml)	Pipete gradate cu volumul 10,0ml, clasa AS	ISO
100	33696500-0	Pipete gradate cu volumul 1ml, clasa AS	021.01.001	Germania	Sigma-Aldrich	Manufactured from neutral tubing according to ISO 648 and DIN 12687 (for volumetric pipettes), ISO 835 and DIN (for graduated pipettes) standards. Clasa AS TYPE 1 (Pipete gradate de sticla cu volumul 1 ml, gradatia 0,02 ml, cu scurgere partiala, tip 1(cu 2 cote: gradatia "0" in partea superioara a pipetei, a doua cota in apropierea varfului. Clasa AS, toleranta ± 0.01 ml)	Pipete gradate cu volumul 1ml, clasa AS	ISO
101	33696500-0	Pipetă Mohr (bulb pipette) de 50 ml	021.05.050	Germania	Sigma-Aldrich	Material: sticlă borosilicată; clasa AS (conf. DIN EN ISO 648 timpul de scurgere: 5 sec.); calibrată la delivrare (TD, Ex); volum: 50,0 ml; limită de eroare: $\pm 0,05$ ml;	Pipetă Mohr (bulb pipette) de 50 ml clasa AS	ISO

105	33696500-0	Pahare 250 ml	10003803	Rusia	Minimed	Material: sticlă borosilicată; cu "năsuleț" de scurgere; volum 250 ml,	Pahare 250 ml, sticlă borosilicată; cu "năsuleț" de scurgere	ISO
106	33696500-0	Pahare 400 ml	10003804	Rusia	Minimed	Material: sticlă borosilicată; cu "năsuleț" de scurgere; volum 400 ml,	Pahare 400 ml, sticlă borosilicată; cu "năsuleț" de scurgere	ISO
107	33696500-0	Pahare 50 ml	10003811	Rusia	Minimed	Material: sticlă borosilicată; cu "năsuleț" de scurgere; volum 400 ml,	Pahare 50 ml, sticlă borosilicată; cu "năsuleț" de scurgere	ISO
114	33696500-0	Termometru p/u frigider din sticla	TC-7M-1	Rusia	Minimed	p/u frigider, t= -30°C - +30°C diviziunea 0,5 sau 0,1 cu certificat etalonare	p/u frigider, t= -30°C - +30°C diviziunea 0,5 sau 0,1 cu certificat de verificare	ISO
121	33696500-0	Spatula-"st. steel"- "micro spoon"	047.06.180	Germania	Isolab	Material: oțel inoxidabil; cu microlingură; lungimea: 180 mm; lățimea lamei: 10 mm; lungimea lamei: 35 mm; diametrul tije: 3,5 mm; autoclavabilă	spatula - stainless steel - micro spoon - 180 mm	ISO
125	33696500-0	Mănuși nitril marimea L	261503	Germania	Hygonorm	Mănuși de nitril, nepudrate, ambidextre, nesterile, albastre, rezistente la acizi și baze. Nu conțin cauciuc natural din latex. Manșetă: lungă, rotunjită (pentru protecție mai eficientă)	Mănuși de nitril, nepudrate, ambidextre, nesterile, albastre, rezistente la acizi și baze. Nu conțin cauciuc natural din latex. Manșetă: lungă, rotunjită (pentru protecție mai eficientă) amb.100 buc	ISO
126	33696500-0	Ulei de măsline	EL40296	Grecia	Elmar	Ulei de masline Extra Virgin	Ulei de masline Extra Virgin amb.1L	ISO

Semnat: _____

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