

SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: **ocds-b3wdp1-MD-1707466872092 din 13.02.2024**

Denumirea procedurii de achiziție: **Consumabile și reactivi chimici pentru determinarea elementelor toxice și reziduurilor -/ LÎPA**

Nr. d/o	Codul CPV	Denumirea bunurilor și specificația tehnică deplină solicitată	Modelul articolului	Țara de origine	Producă- torul	Specificarea tehnică deplină	Specificarea tehnică deplină propusă de către ofertant	Standar-de de referință
1	33100000-1	LOT 1 Sodium hydroxide NaOH	1314-1KG	Germania	CHEMSOLUTE®	Puritatea ≥97.0%Ambalaj original	Sodium hydroxide pharmaceutically pure, Ph. Eur., acc. EN 896 (flakes, min. 98.0 %), CHEMSOLUTE®	ISO
2	33100000-1	LOT 2 Ethyl acetate C4H8O2	33211-2.5L	Germania	Honeywell	Puritatea ≥99.5 %Ambalaj original	Ethyl acetate, puriss. p.a., ACS Reagent, Reag. ISO, Reag. Ph. Eur., ≥99.5% (GC), Honeywell	ISO
3	33100000-1	LOT 3 Acetonitril with 0.1% formic acid	2645-2.5L	Germania	CHEMSOLUTE®	Puritatea ≥98.0%Ambalaj originalFor LC MS	Acetonitrile with 0.1 % formic acid for LC-MS (min. 99.5 %), CHEMSOLUTE®	ISO
4	33100000-1	LOT 4 Acid acetic	401431-1L	Germania	CARLO ERBA	Puritatea ≥98.0%Ambalaj originalFor HPLC	Acetic acid glacial RS - For HPLC - Isocratic Grade, >= 99.8, CARLO ERBA	ISO
5	33100000-1	LOT 5 Metanol	34966-2.5L	Germania	Honeywell	Puritatea ≥98.0%Ambalaj originalFor LC MS	Methanol, CHROMASOLV™ LC-MS >=99.9%, Honeywell	ISO
6	33100000-1	LOT 6 Acetona	24201-2.5L-M	Germania	Sigma Aldrich	Puritatea ≥98.0%Ambalaj original	Acetone puriss., meets analytical specification of Ph. Eur., BP, NF, ≥99% (GC)	ISO
7	33100000-1	LOT 7 Acetonitril	2697-2.5L	Germania	CHEMSOLUTE®	Puritatea ≥98.0%Ambalaj originalFor LC MS	Acetonitrile for LC-MS (min. 99.95 %) CHEMSOLUTE®	ISO
8	33100000-1	LOT 8 Ethyl acetate	33211-2.5L	Germania	Honeywell	Puritatea ≥99.0%Ambalaj original	Ethyl acetate, puriss. p.a., ACS Reagent, Reag. ISO, Reag. Ph. Eur., ≥99.5% (GC), Honeywell	ISO
9	33100000-1	LOT 9 Tert-butil-metuleter (TBME)	2524-2.5L	Germania	CHEMSOLUTE®	Puritatea ≥98.0%Ambalaj original	tert-Butyl methyl ether p. a. (min. 99.8 %), CHEMSOLUTE®	ISO
10	33100000-1	LOT 10 Heptan	1948-2.5L	Germania	CHEMSOLUTE®	Puritatea ≥98.0%Ambalaj original	n-Heptane p. a. (min. 99.0 %), CHEMSOLUTE®	ISO
11	33100000-1	LOT 11 Sodium phosphate dibasic Na2HPO4	1329-500G	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	di-Sodium hydrogen phosphate anhydrous p. a., ACS (min. 99.0 %), CHEMSOLUTE®	ISO
12	33100000-1	LOT 12 Acetat de sodiu (CH3COONa)	8694-1KG	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Sodium acetate anhydrous p. a., ACS, Ph. Eur., USP (min. 99.0 %), CHEMSOLUTE®	ISO

13	33100000-1	LOT 13 Acetat de plumb (CH ₃ COO) ₂ Pb	32307-100G	Germania	Sigma Aldrich	Puritatea ≥99.0%Ambalaj original	Lead(II) acetate trihydrate puriss. p.a., ACS reagent, reagent ISO, reagent Ph. Eur., 99.5-102.0%	ISO
14	33100000-1	LOT 14 Citric acid	6490,1	Germania	Roth	Puritatea ≥99.0%Ambalaj original	Citric acid min. 99.5 %, Ph.Eur., anhydrous, Roth	ISO
15	33100000-1	LOT 15 Sodium fosfat monobasic NaH ₂ PO ₄	71496-250G	Germania	Sigma Aldrich	Puritatea ≥99.0%Ambalaj original	Sodium phosphate monobasic purum p.a., anhydrous, ≥99.0% (T)	ISO
16	33100000-1	LOT 16 Potassium phosphate monobasic (KH ₂ PO ₄)	1648-250G	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Potassium dihydrogen phosphate p. a., ACS, ISO, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO
17	33100000-1	LOT 17 di-Potassium hydrogen phosphate (K ₂ HPO ₄)	1634-1KG	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	di-Potassium hydrogen phosphate anhydrous p. a., Ph. Eur. (min. 99.0 %), CHEMSOLUTE®	ISO
18	33100000-1	LOT 18 Potassium hexacyanoferrat (iii) K ₃ (Fe(CN) ₆)	1610-250G	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Potassium hexacyanoferrat(III) p. a., ACS, ISO, Ph. Eur. (min. 99.0 %), CHEMSOLUTE®	ISO
19	33100000-1	LOT 19 Potassium chloride KCl	1632-500G	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Potassium chloride p. a., ISO, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO
20	33100000-1	LOT 20 Sodium chloride NaCl	1367-1KG	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Sodium chloride p. a., Reagent Ph. Eur. (99.0-100.5 %), CHEMSOLUTE®	ISO
21	33100000-1	LOT 21 Succinic acid (C ₄ H ₆ O ₄)	411025-250G	Germania	CARLO ERBA	Puritatea ≥99.0%Ambalaj original	Succinic acid RPE - For analysis, min 99%, CARLO ERBA	ISO
22	33100000-1	LOT 22 Zinc sulfate heptahydrate ZnSO ₄ *7H ₂ O	123-1KG	Germania	CHEMSOLUTE®	Puritatea ≥98.0%Ambalaj original	Zinc sulfate heptahydrate p. a., ACS, ISO, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO
23	33100000-1	LOT 23 Hexan C ₆ H ₁₄	34986-2.5L	Germania	Honeywell	Puritatea ≥97.0%Ambalaj original, pentru LC/MS/MS	Hexane, CHROMASOLV™ LC-MS, Min. 97 %, Honeywell	ISO
24	33100000-1	LOT 24 Eter petroleic	32299-2.5L	Germania	Honeywell	Ambalaj original, 40-60 °C	Petroleum ether, puriss. p.a., ACS Reagent, Reagent ISO, low boiling point hydrogen treated naphtha, bp ≥ 90% 40-60 °C (≥ 90%), Honeywell	ISO
25	33100000-1	LOT 25 Hydrochloric acid HCl, 37%	30721-2.5L-GL	Germania	Honeywell	Puritatea ≥97.0%Ambalaj original	Hydrochloric acid, puriss. p.a., ACS Reagent, Reagent ISO, Reagent Ph. Eur., fuming, ≥37%, APHA: ≤10, Honeywell	ISO
26	33100000-1	LOT 26 Modificator de matrice Fosfat de amoniu NH ₄ H ₂ PO ₄	VHG-MAP10P-100	Germania	LGC	Concentratia NH ₄ H ₂ PO ₄ – 10% in acid azotic – 2%	Ammonium Phosphate GFAA Matrix Modifier: 10% NH ₄ H ₂ PO ₄ in 2% HNO ₃ , LGC Standards	ISO
27	33100000-1	LOT 27 2-nitrobenzaldehyde	4224,2	Germania	Roth	Puritatea ≥98.0%Ambalaj original	2-Nitrobenzaldehyde min. 98 %, for synthesis, Roth	ISO
28	33100000-1	LOT 28 Borohidru de sodiu NaBH ₄	632287-500G	Germania	Sigma Aldrich	Puritatea ≥97.0%Ambalaj original	Sodium borohydride - VenPure® SF, powder, Sigma-Aldrich	ISO
29	33100000-1	LOT 29 Clorura de staniu SnCl ₂ *H ₂ O	31669-1KG	Germania	Honeywell	Puritatea ≥97.0%Ambalaj original	Tin(II) chloride dihydrate, puriss. p.a., ACS Reagent, Reagent ISO, Reagent Ph. Eur., ≥98%, Honeywell	ISO
30	33100000-1	LOT 30 Zinc granulat	101-1KG	Germania	CHEMSOLUTE®	Puritatea ≥99.9%Ambalaj original	Zinc granulate p. a., ACS, ISO, Reagent Ph. Eur. (min. 99,9 %), CHEMSOLUTE®	ISO
31	33100000-1	LOT 31 Sulfat de cupru CuSO ₄ * 5H ₂ O	2479-1KG	Germania	CHEMSOLUTE®	Puritatea ≥99.0%Ambalaj original	Copper(II) sulfate pentahydrate p. a., ACS, ISO, Ph. Eur. (min. 99.0 %), CHEMSOLUTE®	ISO
32	33100000-1	LOT 32 L-cisteina	168149-100G	Germania	Sigma Aldrich	Puritatea ≥97.0%Ambalaj original	L-Cysteine 97%, Sigma-Aldrich	ISO

33	33100000-1	LOT 33 Acid azotic, 67%	838-2.5L-PE	Germania	CARLO ERBA	Puritatea ≥98.0%Ambalaj original	Nitric acid 69.5% RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP, CARLO ERBA	ISO
34	33100000-1	LOT 34 iodura de potasiu	30315-250G	Germania	Honeywell	Puritatea ≥99.7%Ambalaj original	Potassium iodide, puriss. p.a., Reag. ISO, Reag. Ph. Eur., 99.7%, Honeywell	ISO
35	33100000-1	LOT 35 Monoetanolamina	15014-100ML	Germania	Sigma Aldrich	Puritatea ≥99.0%Ambalaj original	Ethanolamine ≥99%, Sigma-Aldrich	ISO
36	33100000-1	LOT 36 Peroxid de hidrogen	476-1L-PE	Germania	CHEMSOLUTE®	Puritatea ≥30.0%Ambalaj original	Hydrogen peroxide puriss., Ph. Eur., Ph. Nord. (min. 30.0 % w/w, stabilized), CHEMSOLUTE®	
38	33100000-1	LOT 38 THF-Tetrahidrofuran	34865-2.5L	Germania	Honeywell	Puritatea ≥99.9%Ambalaj original	Tetrahydrofuran, CHROMASOLV™ Plus, for HPLC, inhibitor-free, ≥99.9%, Honeywell	ISO
39	33100000-1	LOT 39 Trietilamina	T0886-1L	Germania	Sigma Aldrich	Puritatea ≥99.5%Ambalaj original	Triethylamine ≥99.5%, Sigma-Aldrich	ISO
40	33100000-1	LOT 40 N,N-Dimethylformamide DMFO	33120-1L	Germania	Honeywell	Puritatea ≥99.9%Ambalaj original	N,N-Dimethylformamide, puriss. p.a., ACS Reagent, Reag. Ph. Eur., ≥99.8% (GC), Honeywell	ISO
42	33100000-1	LOT 42 Filter Paper Grade 202, D-90	6317449	Germania	Cytiva	Paper Grade 202, diam.90mm,	Round filter grade 202, 90mm pack of 100, Cytiva	ISO
43	33100000-1	LOT 43 Filtre PVDF de 0.45µm de 13mm	729244	Germania	MACHEREY-NAGEL	Filtre PVDF de 0.45µm de 13mm	Syringe filter CHROMAFIL® Xtra, Polyvinylidenfluoride (PVDF), 13 mm, 0.45 µm, MACHEREY-NAGEL	ISO
45	33100000-1	LOT 45 Vialuri cu capac filetat	6270177	Germania	LABSOLUTE®	Flacoane cu margine ingrosata, realizate din sticla bruna, cu filet ND11, 1.5 ml, cite 100 bucati	Snap ring vials ND11, wide opening ND11, Amber glass, flat bottom, with label, 11.6 x 32 mm, 1.5ML, LABSOLUTE®	ISO
46	33100000-1	LOT 46 Vialuri cu capac filetat	7613087	Germania	LABSOLUTE®	Flacoane realizate din sticla transparenta, cu filet ND8, 1.5 ml, cite 100 bucati	Screw neck vials ND8, small opening, clear glass, flat bottom, with label, 11.6 x 32 mm, 1.5ML, LABSOLUTE®	ISO
48	33100000-1	LOT 48 Cartuse strata X-33u, 200mg/6ml	730938	Germania	MACHEREY-NAGEL	Strata X RP C18, 200mg/6mL, Phase: Surface modified styrene divinylbenzene	SPE columns, CHROMABOND HR-X, 85 µm, 6 mL/200 mg, Macherey-Nagel	ISO
49	33100000-1	LOT 49 strata X RP C18, 60mg/3mL	730936	Germania	MACHEREY-NAGEL	Strata X RP C18, 60mg/3mL, Phase: Surface modified styrene divinylbenzene	SPE columns, CHROMABOND HR-X, 85 µm, 3 mL/60 mg, Macherey-Nagel	ISO
50	33100000-1	LOT 50 Tuburi de centrifuga ,graduate, 50 ml	6270404	Germania	LLG	Tuburi PP centrifuga ,graduate, autoclavabile, cu capac filetat, 50 ml , o rezistenta chimica foarte buna la solventi organici, acizi si baze,	LLG-Centrifuge Tubes economy, 50ML PP, LLG With flat PE caps With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml) Easy-to-read black volume graduations With a large frosted writing area Engraved graduation at the conical bottom of each tube Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes Autoclavable at 121 °C and freezable to -80 °C Leak-proof Free of heavy metals, pyrogens and endotoxins DNase/RNase-free Aseptically or sterile Dimensions: 82 x 61 x 28mm Weight: 70g	ISO

51	33100000-1	LOT 51 Tuburi de centrifuga ,graduate, 15 ml	6270403	Germania	LLG	Tuburi din PP pentru centrifuga, tip Falcon 15 ml , graduate, , cu capac filetat - 15 ml , Dimensiuni 16x120 mm Capacitate totala 15 ml. Au o rezistenta chimica foarte buna la solventi organici, acizi si baze. punga 50 buc	LLG-Centrifuge Tubes economy, 15ML PP, LLG With flat PE caps With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml) Easy-to-read black volume graduations With a large frosted writing area Engraved graduation at the conical bottom of each tube Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes Autoclavable at 121 °C and freezable to -80 °C Leak-proof Free of heavy metals, pyrogens and endotoxins DNase/RNase-free Aseptically or sterile Dimensions: 82 x 61 x 28mm Weight: 70g	ISO
70	33100000-1	LOT 70 Spatula	047.01.210	Germania	ISOLAB	Spatula lingurita de inox 210 mm	Spatula - stainless steel - macro spoon - 210 mm - 1 - Piece	ISO
71	33100000-1	LOT 71 Spatula	047.01.180	Germania	ISOLAB	Spatula lingurita de inox 180 mm	Spatula - stainless steel - macro spoon - 180 mm - 1 - Piece	ISO
72	33100000-1	LOT 72 Stativ pentru micropipete	059.05.001	Germania	ISOLAB	Stativ pentru pipete si termometre, capacitate 12 locuri	NMR tube / thermometer stand - adjustable height - 1 - Piece	ISO
73	33100000-1	LOT 73 Stativ pentru vialuri cromatografice	080.01.002B	Germania	ISOLAB	Stativ pentru microtuburi de 2.0-5.0 ml confectionat din polipropilena Stativele pot fi introduse in baia de apa, Se pot utiliza si la temperaturi joase de pana la -20 grade C	tube box - P.P - 100 well - hinged lid - blue - 1 - Piece	ISO
81	33100000-1	LOT 81 Pahare Berzelius:V=50 ml, V=100ml,V=250ml, V=600ml	025.01.050 025.01.100 025.01.250 025.01.600	Germania	ISOLAB	Pahare Berzelius, realizate din sticla borosilicata 3.3, graduate	Beaker - low form - glass - 50 ml - 10 - Pack Beaker - low form - glass - 100 ml - 10 - Pack Beaker - low form - glass - 250 ml - 10 - Pack Beaker - low form - glass - 600 ml - 10 - Pack	ISO
82	33100000-1	LOT 82 Sticla de ceas	150010	Germania	BRAND	Sticla de ceas cu diametrul de 40 mm, 10 bucati in set	Watch glasses, Soda-lime glass, 40MM, DIN 12 341, Fire-polished edges, Stress-reduced to minimize risk of breakage BRAND	ISO
83	33100000-1	LOT 83 Pilnie din sticla Diametru 40mm, Diametru 60 mm Diametru 80 mm	7692015 7692017 7692019	Germania	LABSOLUTE	Palnii cu coada scurta, realizate din sticla borosilicata 3.3, , 10 bucati in set	Funnels, short stem, borosilicate glass 3.3, 40mm, LABSOLUTE Funnels, short stem, borosilicate glass 3.3, 60mm, LABSOLUTE Funnels, short stem, borosilicate glass 3.3, 80mm, LABSOLUTE	ISO

84	33100000-1	LOT 84 Colbe pentru rotavapor	7690180	Germania	LABSOLUTE	Colbe pentru rotavapor forma de para, din sticla borosilicate, 100 ml, d=32mm, NS 29/32	Evaporating flasks 100ML, 29/32, pear-shaped, borosilicate glass 3.3, The LABSOLUTE® evaporating flasks are made of high-quality borosilicate glass 3.3 and are therefore extremely temperature-resistant up to 500 °C. They are resistant to cold lyes/alkaline solutions and strong acids with the exception of hydrofluoric acid and concentrated, hot phosphoric acid. The pear-shaped flasks are especially designed for the use with all common	ISO
85	33100000-1	LOT 85 Creuzete de portelan cu capac	7694912	Germania	LABSOLUTE	Volum 100 ml, diametru 70mm, inaltimea 60mm, rezistente la T≥4500C	Crucibles, medium form, porcelain, d=70, H= 56mm, LABSOLUTE® The LABSOLUTE® crucibles made of high-quality laboratory porcelain are glazed on the inside and comply with DIN 12904. Due to their temperature resistance up to 1000 °C and the excellent resistance against alkaline solutions and acids with the exception of hydrofluoric acid, they are suitable for ashing a wide variety of samples.	ISO
86	33100000-1	LOT 86 Creuzete de portelan	7694911	Germania	LABSOLUTE	Volum 100 ml, diametru 60mm, inaltimea 50mm, rezistente la T≥4500C	Crucibles, medium form, porcelain, d= 60, H = 48mm, LABSOLUTE® The LABSOLUTE® crucibles made of high-quality laboratory porcelain are glazed on the inside and comply with DIN 12904. Due to their temperature resistance up to 1000 °C and the excellent resistance against alkaline solutions and acids with the exception of hydrofluoric acid, they are suitable for ashing a wide variety of samples.	ISO

Semnăt: _____

Valabilitatea ofertei: **30 zile**

Numele, Prenumele: **Michiciuc Gheorghe**

27.02.2024

Funcția: **Director**

Oferatntul: **SRL «Mic — Tan»**

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