

SPECIFICAȚII TEHNICE (F4.1)

Numărul licitației: 21010952	Data: 29.08.2019	
Denumirea licitației: Achiziționarea reactivilor și consumabilelor pentru laboratorul fizico-chimic (repetat)		Pagina 1 din 5

Nr. d/o	Codul CPV	Denumirea bunurilor și specificația tehnică deplină solicitată	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină	Specificarea tehnică deplină propusă de către ofertant	Standar-de de referință
1	33140000-3	(+)-Isomenthone,				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: 1ml.		
2	33140000-3	Sulfanilic acid	251917	Germania	Sigma-Aldrich	Standard pentru titrare cu NaNO ₂ . Ambalaj: 10g.	Sulfanilic acid ACS reagent, 99%	ISO
3	33140000-3	Sabinene				Conform Ph.Eur.: A colourless, oily liquid, suitable for Gas chromatography. Content: minimum 95.0%, calculated by the normalisation procedure. Ambalaj: 1ml.		
4	33140000-3	Piperitone				mixture of enantiomers, suitable for GC. Ambalaj: 1ml.		
5	33140000-3	d-Mannitol	17311	Germania	Sigma-Aldrich	Conform Ph.Eur.; white or almost white crystals or powder; Content: 97.0% to 102.0% (dried substance). Conductivity: max 20 μS·cm ⁻¹ ; Melting point: 165 °C to 170 °C; Reducing sugars: max 0.1% (calculated as glucose equivalent); Related substances: conform Ph.Eur.; Nickel: max 1 ppm; Loss on drying: max 0.5%; Ambalaj: 100g.	D-Mannitol tested according to Ph Eur	ISO
6	33140000-3	Hexane for HPLC, GC	34859	Germania	Sigma-Aldrich	≥98,0% (GC), gradul: pentru HPLC; impurități: ≤0,0005% substanțe nevolatile; ≤0,001% acid liber (ca CH ₃ COOH); ≤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 n ₂₀ /D: 1,375; densitate: 0,66 g/mL (la 20 °C); transmitanță 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 for HPLC, ≥98.0% (GC)	ISO

7	33140000-3	D(+)-Saccharose	PHR1001	Germania	Sigma-Aldrich	Certified Reference Material (certificat cu incertitudine). Ambalaj: 1,25g.	Sucrose Pharmaceutical Secondary Standard; Certified Reference Material	ISO
8	33140000-3	Resorcinol	16101	Germania	Sigma-Aldrich	Conform Ph.Eur.; Resorcinol contains not less than 98.5% and not more than the equivalent of 101.0% of benzene-1,3-diol, calculated with reference to the dried substance; Melting point: 109 °C to 112 °C; Acidity or alkalinity: conform Ph.Eur.; Related substances: conform Ph.Eur.; Pyrocatechol: conform Ph.Eur.; Loss on drying: max.1%; Sulfated ash: max.0,1%; Ambalaj: 10g.	Resorcinol meets analytical specification of Ph. Eur., BP, 98.5-100.5% (calc. to the dried substance)	ISO
9	33140000-3	1,1-Diethoxyethane (Acetal)	A-902	Germania	Sigma-Aldrich	Conform Ph.Eur.; ≥99%; Clear, colourless, volatile liquid, miscible with water and with ethanol (96%); density: about 0,824; refractive index: about 1.382; bp: about 103 °C. Ambalaj: 25ml.	1,1-Diethoxyethane, Acetal, 99%	ISO
10	33140000-3	tert-Butyl methyl ether	34875	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: 25ml.	tert-Butyl methyl ether for HPLC, ≥99.8%	ISO
11	33140000-3	Thymol	16254	Germania	Sigma-Aldrich	tested according to Ph.Eur. Ambalaj: 25 g.	Thymol meets analytical specification of Ph. Eur., BP, NF, 99-101%	ISO
12	33140000-3	L-Isoleucine	17403	Germania	Sigma-Aldrich	reag. Ph. Eur., ≥99.5%, for HPLC. Ambalaj: 5 g.	L-Isoleucine from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5-101.0%	ISO
13	33140000-3	Ammonium iron(II) sulfate hexahydrate (Ferrous ammonium sulfate)	O9719	Germania	Sigma-Aldrich	≥99%. Ambalaj: 50 g.	Ammonium iron(II) sulfate hexahydrate BioUltra, ≥99.0% (RT)	ISO
14	33140000-3	Conductivity standard solution				1.3 µS/cm at 25°C. Ambalaj: 300ml.		ISO
15	33140000-3	Propanol-1	34871	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% distils between 96°C and 99°C; Ambalaj: 1L.	1-Propanol for HPLC, ≥99.9%	ISO
16	33140000-3	Formamide	47670	Germania	Sigma-Aldrich	Purity: ≥99,5%; water ≤0.1%; free acid (as HCOOH): ≤0.02%; 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
17	33140000-3	Acetic anhydride	33214	Germania	Sigma-Aldrich	puriss. p.a., reag. Ph. Eur.; ≥99%; Ambalaj: 1L.	Acetic anhydride puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99% (GC)	ISO
18	33140000-3	Sodium heptanesulfonate monohydrate	90028696	Germania	Molekula	Content: min.96% (anhydrous substance). White or almost white, crystalline powder, soluble in water, very slightly soluble in anhydrous ethanol; Water: maximum 8%; Ambalaj: 25g.	1-Heptanesulfonic acid sodium salt monohydrate (207300-90-1), white to off white crystalline, powder, Assay >99%	ISO
19	33140000-3	Potassium hydrogen phthalate				Volumetric standard, certified reference material for alkalimetry, traceable to NIST. Ambalaj: 100g.		
20	33140000-3	Sodium octyl sulfate	75073	Germania	Sigma-Aldrich	for HPLC; White or almost white, crystalline powder or flakes, freely soluble in water, soluble in methanol. Ambalaj: 25g.	Sodium octyl sulfate for ion pair chromatography, LiChropur®, ≥99.0% (T)	ISO

21	33140000-3	Clorura de zinc	31650	Germania	Sigma-Aldrich	(ZnCl ₂)≥98%;puriss. p.a.,reag. Ph. Eur.; Oxychlorides: comply; Sulfates: max. 200 ppm; Ammonium: maximum 400 ppm; Ambalaj: 50g.	Zinc chloride puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥98%	ISO
22	33140000-3	Indicator rosu de metil	250198	Germania	Sigma-Aldrich	conform Ph.Eur.; Dark-red powder or violet crystals, practically insoluble in water, soluble in ethanol (96%). (C ₁₅ H ₁₅ N ₃ O ₂) CAS:493-52-7Ambalaj: 10g.	Methyl Red ACS reagent, crystalline	ISO
23	33140000-3	Aluminium Potassium Sulfate*12H ₂ O	31242	Germania	Sigma-Aldrich	99-100,5%; granular powder or colourless, transparent, crystalline masses; Ammonium: max. 0.2%; Iron: max.100 ppm; Ambalaj: 25g.	Aluminum potassium sulfate dodecahydrate puriss. p.a., ACS reagent, reag. Ph. Eur., ≥99.5%	ISO
24	33140000-3	Vaniline	V1104	Germania	Sigma-Aldrich	Contains 99,0-101,0% of vanilin, calculated as dried substance; Loss on drying: < 1,0% (4 hours in desiccator); Sulfated ash: < 0,05%; Ambalaj: 10g.	Vanillin ReagentPlus®, 99%	ISO
25	33140000-3	Dimethylformamide	33120	Germania	Sigma-Aldrich	Purity ≥99,8%; Water: max. 0.1%; RESIDUE (EVAPORATION) ≤ 0.001 %; Ambalaj: 2,5L.	N,N-Dimethylformamide puriss. p.a., ACS reagent, reag. Ph. Eur., ≥99.8% (GC)	ISO
26	33140000-3	Titrant Karl Fisher	1.8805	Germania	Sigma-Aldrich	Methanol-based titrant; Titr: 5 mg/ml; For one-component titration. Ambalaj: 1L.		ISO
27	33140000-3	Estragol, (1-Methoxy-4-prop-2-enylbenzene)	O5818	Germania	Sigma-Aldrich	For GC; min. 98.0% (calculated by the normalisation procedure). Tested according to Eur.Ph. Ambalaj: 5ml.	4-Allylanisole analytical standard	ISO
28	33140000-3	Boron Trifluoride Methanol Solution	B1252	Germania	Sigma-Aldrich	14% solution of BF ₃ in methanol. Ambalaj: 100ml.	Boron trifluoride-methanol solution 14% in methanol	ISO
29	33140000-3	Sodium Bitartrate Monohydrate	71680	Germania	Sigma-Aldrich	99-100,5%; Insoluble matter: n.m.t. 0,01%; Chlorides: n.m.t. 0,02%; Heavy metals: n.m.t. 0,001%; Sulfates: n.m.t. 0,02%. Ambalaj: 25g.	Sodium bitartrate monohydrate purum p.a., ≥98.0% (T)	ISO
30	33140000-3	2-formyl pyridine				for synthesis; Purity: ≥98%. Ambalaj: 25g.		
31	33140000-3	Acetonitril	34851	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: ≤ 0,0002 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		ISO
32	33140000-3	Acetic acid glacial	33209	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 puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.8%	ISO
33	33140000-3	Tetrahydrofuran	34865	Germania	Sigma-Aldrich	Clear, colourless, flammable liquid, miscible with water, with ethanol (96 per cent); Content: ≥99.8%; Test for peroxides-comply. Ambalaj: 2,5L.	Tetrahydrofuran inhibitor-free, for HPLC, ≥99.9%	ISO

34	33140000-3	Propanol-2 CAS-[67-63-0],	33539	Germania	Sigma-Aldrich	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 puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.8% (GC)	ISO
35	33140000-3	Potassium chloride	12636	Germania	Sigma-Aldrich	99.0-101.0% (dried substance); Acidity or alkalinity: Ph.Eur. correspond; Bromides: max. 0.1%; Iodide: Ph.Eur.-corresp.; Sulfates: max. 300 ppm; Iron: max. 20 ppm; Barium: Ph.Eur.-corresp.; Magnesium and alkaline-earth metals: max. 200 ppm, calculated as Ca; Loss on drying: max. 1.0%, determined on 1.000 g by drying in an oven at 105 °C for 3 h; Ambalaj: 100g.	Potassium chloride puriss., meets analytical specification of Ph. Eur., BP, USP, FCC, E508, 99-100.5% (AT), ≤0.0001% Al	ISO
36	33140000-3	Bufer 1,68 pH				pH 1,68 (25°C). Ambalaj: 500ml.		
37	33140000-3	Nessler's reagent		Ucraina	Macrochem	for determination of ammonia and ammonium compounds. Ambalaj: 500ml.	Nessler's reagent	ISO
38	33140000-3	Sodium hydroxide				Conform Ph.Eur.; Content: 97.0 to 100.5%; (CO32-)-max. 2.0%; (Cl-)-max. 200ppm; (SO42-)-max. 200ppm; (Fe)-max. 10ppm; Ambalaj: 1kg.		
39	33140000-3	Bufer 6,86 pH				pH 6,86 (25°C). Ambalaj: 500ml.		
40	33140000-3	Bufer 7,00 pH	33646	Germania	Sigma-Aldrich	pH 7,00 (25°C). Ambalaj: 1L.	Buffer, reference standard pH 7.00±0.01 (25 °C)	ISO
41	33140000-3	Buffer 10,01 pH	33649	Germania	Sigma-Aldrich	pH 10,01 (25°C). Ambalaj: 1L.	Buffer, reference standard pH 10.00±0.01 (25 °C)	ISO
42	33140000-3	Creuzete din cuarț		Rusia	Minimed	d1=25mm; d2=45mm; h=50mm	d1=25mm; d2=45mm; h=50mm	ISO
43	33140000-3	Mănuși pentru lucru cu solvenți organici		Cehia	Cerva	Material: neopren; in interior cu tesut;marimea M.	Mănuși pentru lucru cu solvenți organici	ISO
44	33140000-3	Pahare de laborator, gradate 1000 ml	10003806	Rusia	Minimed	Pahare din sticlă termostabilă cu fundul plat: diametru= 100mm; înălțimea=140mm; Volumul=1000 ml.	Pahare din sticlă termostabilă cu fundul plat: diametru= 100mm; înălțimea=140mm; Volumul=1000 ml.	ISO
45	33140000-3	Conductivity flow cell				suitable for Consort C3010; with temperature compensation; CC(constanta celulei)=0,1.		
46	33140000-3	Ochelari de protecție		Cehia	Cerva	Manufactured according to ANSI Z87.1-2003; Lens Material Polycarbonate; Lens colour-colourless; Contoured flexible temples for comfortable fit; UV protection. Prezența foto.	Ochelari de protecție	ISO
47	33140000-3	Biux cu capac				Material: DURAN® (sticlă borosilicată); dimensiuni: diametru= 50mm; înălțimea=20mm;		
48	33140000-3	Chromatography columns without filter				Manufactured from borosilicate glass without filter. Supplied with an interchangeable PTFE stopcock. Diameter-10mm, length-200mm.		
49	33140000-3	Molecular sieves				Pore size: 4Å; with moisture indicator. Ambalaj: 25g.		
50	33140000-3	Pahare transparente pentru tester de dizolvare EDT-08Lx				compatibile cu testerul de dizolvare EDT-08Lx		
51	33140000-3	Cartus PROGARD TS2 pentru instalatia de obtinere a apei Elix Advantage 15				Cartus compatibil cu instalatia Milli Q Direct 8		
52	33140000-3	Stainless steel Wire Basket				compatibil cu baie cu ultrasunet WUC-A06H		
53	33140000-3	Flacon p/u HPLC 500 ml				Flacon gradate din sticlă termostabilă, cu gît larg și capac filetat din sticlă p/u HPLC, volum 500 ml		

54	33140000-3	Flacon p/u HPLC 1000 ml				Flacon gradate din sticlă termostabilă, cu gît larg și capac filetat din sticlă p/u HPLC, volum 1000 ml		
55	33140000-3	Solvent inlet filter, 20 µm pore size				pentru HPLC Agilent 1200. cod: 5041-2168		
56	33140000-3	Mojar 300 ml				ceramica/portelan. 300 ml		
57	33140000-3	Suport colbe A301/2				compatibil cu mașina de spalat Miele		
58	33140000-3	Set acumulatori pentru sistemul de ventilare MP8				Set acumulatori pentru sistemul de ventilare MP8		
59	33140000-3	Burette support with clamps		Ucraina	Macrochem	L x W x H: 210 x 155 x 505mm	Burette support with clamps L x W x H: 210 x 155 x 505mm	ISO
60	33140000-3	Combined glass electrode for acid-base titration				3 in 1 Combination: Glass electrode + Ag/AgCl(reference electrode)+ temperature sensor; pH range: 0-14; Temperature range: 0-80°C; Unexchangable electrolyte (gel); Cable length: ≥1m; Compatibil cu Titroline 7000.		
61	33140000-3	Mini-tastatura				Dimensiuni: ~218 x 102 x 14mm; Conectare: USB; Compatibila cu Titroline 7000;		
62	33140000-3	Titrat and Piston Burette Manual Controller (Mouse)				Conectare: USB; Compatibila cu Titroline 7000;		
63	33140000-3	Prelungitor USB 2,0				cu posibilitate de a conecta 2 dispozitive(USB-Flash) simultan.		
64	33140000-3	Pahare de laborator, gradate 150 ml				Pahare din sticlă termostabilă cu fundul plat: diametru= 100mm; înălțimea=140mm; Volumul=1000 ml.		
65	33140000-3	Mănuși sterile Mărimea M		Italia	Farmac Zabban	Mănuși sterile Mărimea M	Mănuși sterile Mărimea M	ISO
66	33140000-3	Clește de metal				lungimea: 500mm; Diametru: 35mm.		
		Total:						

Semnăt:_____

Valabilitatea ofertei: 60 zile

Numele, Prenumele: **Michiciuc Gheorghe**

29.08.2019

În calitate de: **Director**

Oferatntul: **SRL «Mic — Tan»**

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