

## SPECIFICAȚII TEHNICE

Numărul licitației: <b>ocds-b3wdp1-MD-1723635612033</b>						din <b>14.08.2024</b>	
Denumirea licitației: <b>Achiziționarea Reactivi și consumabile pentru Laboratorul pentru Controlul Calității Medicamentelor - relicitație</b>						Pagina 1 din 6	
<i>Nr. d/o</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>
43	Spirtiere	AL28.1	Germania	Roth	Spirtiere din oțel inoxidabil cu capacitatea de 85-100ml, prevăzută cu fitil ușor reglabil și capac de etanșare. Livrata inclusiv cu fitil. Caertificat de conformitate.	Spirits burner made of stainless steel 85 ml	ISO
48	Recipient pentru biureta automata din sticla transparenta (Bellow for automatic burettes)	020.07.010	Germania	Isolab	020.07.010 Volum – 2000 ml, slif 29/32	020.07.010 - burette bottle - glass - clear - 2000 ml	ISO
49	Recipient din sticlă închisă la culoare pentru biuretă automata (Bottles for automatic burettes )	020.07.025	Germania	Isolab	020.07.025 Volum – 2000 ml, slif 29/32	020.07.025 - burette bottle - glass - amber - 2000 ml	ISO
50	Bellow for automatic burettes	020.08.001	Germania	Isolab	020.08.001	020.08.001 - burette bellow - standard model	ISO
51	Automatic burettes (din sticla transparenta)	019.01.025	Germania	Isolab	019.01.025 Volum 25 ml	019.01.025 - burette - automatic - clear - PTFE intermediate stopcock - class AS - conf. batch cert. - schellbach - blue scale - 25 ml	ISO
52	Automatic burettes (din sticla închisă la culoare)	019.05.025	Germania	Isolab	019.05.025 Volum 25 ml	019.05.025 - burette - automatic - amber - PTFE intermediate stopcock - class AS - conf. batch cert. - white scale - 25 ml	ISO
53	Ceasca de evaporare cu fund rotund (ceramic)	038.12.080	Germania	Isolab	038.12.080 Volum 75 ml, Ø=80 mm	038.12.080 - evaporating dish - porcelain - round base - 80 mm	ISO
54	Suport metallic pentru biurete – Burette support with clamps	049.01.150	Germania	Isolab	049.01.150 150x300 mm	049.01.150 - laboratory stands - rectangular - 150x300 mm	ISO
55	Support rods	049.07.005	Germania	Isolab	049.07.005 750 mm, Ø 12 mm	049.07.005 - support rods - stainless steel - 750 mm	ISO
56	Clamps-“for straight burettes”	018.05.002	Germania	Isolab	018.05.002	018.05.002 - burette clamp - for 2 burettes - steel	ISO
57	Clamp-“3 jaws”- “without bosshead”	045.06.001	Germania	Isolab	045.06.001	045.06.001 - clamp - 3 jaws - with boss head	ISO

58	Funnels holders "steel"- with bosshead	042.04.060	Germania	Isolab	042.04.060 Ø=60 mm	042.04.060 - funnel holder - steel - with bosshead - 60mm	ISO
59	Funnels holders "steel"- with bosshead	042.04.080	Germania	Isolab	042.04.080 Ø=80 mm	042.04.080 - funnel holder - steel - with bosshead - 80mm	ISO
60	Distilling links – "with condenser"- "Claisen head"	065.57.003	Germania	Isolab	065.57.003	065.57.003 - distilling link - with condenser & Claisen head - Cone(s) : NS 29/32 - 250 mm	ISO
61	Pâlnie de sticlă	041.01.060	Germania	Isolab	041.01.060 Ø=60 mm	041.01.060 - laboratory funnel - general use - glass - 60mm	ISO
62	Perie pentru sticlăria de laborator	071.02.003	Germania	Isolab	071.02.003 Brush Ø=50mm, Brush L=110 mm	071.02.003 - laboratory brush for medium size bottles	ISO
63	Perie pentru sticlăria de laborator	071.02.004	Germania	Isolab	071.02.004 Brush Ø=50mm, Brush L=110 mm	071.02.004 - laboratory brush for small size bottles	ISO
64	Perie pentru sticlăria de laborator	071.02.005	Germania	Isolab	071.02.005 Brush Ø=25mm, Brush L=100 mm	071.02.005 - laboratory brush for test tubes	ISO
65	Eye wash	069.04.175	Germania	Isolab	069.04.175 4,9% fosfat buffer neutralization solution	069.04.175 - eye wash bottle - 175 ml - neutralisation solution	ISO
68	Cilindru gradat	MCHA-2K0-001	Spania	LabBox	015.01.902 Volum 2000 ml. Class A	Measuring cylinder hexagonal base, class A, 2000 ml	ISO
71	PTFE Frits 5 PK	01018-22707	SUA	Agilent	01018-22707	Agilent 1050 1090 1100 Purge Valve Frit, 5/Pkg - 01018-22707	ISO
74	Electrod pH compatibil cu modelul pH – metru Agilent	5190-3990	SUA	Agilent	P3311 (N5190-3990) Material de electrod: Policarbonat Tip cablu: BNC, senzor temperatura Tipul de electrod: Combinat cu capac în formă sferică	Electrodes & Probes. Part Number: 5190-3990 P3311 pH Triode combination electrode with refilling solution and probe	ISO
75	Weighing boat	6.2412.000	UE	MT	Weighing boat made of glass of KF water determinations. Including protective tube	Weighing boats, glass for Titration vessel, For Karl-Fischer titration. Including protective tube. Metrohm	ISO
77	1,3-dinitrobenzene	D194255-25G	Germania	Sigma Aldrich	Conform Ph.Eur. Yellowish crystalline powder or crystals, practically insoluble in water, slightly soluble in ethanol (96 per cent). mp: about 90 °C. For HPLC. Ambalaj 25 g	1,3-Dinitrobenzene 97% anhydrous basis	ISO
78	Tetrabutylammonium hydrogen sulfate for HPLC (CAS 32503-27-8)	363622,1607	Spania	AppliChem	Conform Ph.Eur. Crystalline powder or colourless crystals, freely soluble in water and in methanol. mp: 169 °C to 173 °C. Absorbance: maximum 0.05, determined between 240 nm and 300 nm using a 50 g/L solution. Corespunde cu Tetrabutylammonium hydrogen sulfate R1: Absorbance: maximum 0.02, determined between 215 nm and 300 nm using a 50 g/L solution.. Suitable for ion-pair chromatography. Ambalaj 50 g	Tetrabutylammonium Hydrogen Sulfate for HPLC, AppliChem	ISO
79	tert-butyl methyl ether	2529-1L	Germania	Chemsolute	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 for HPLC (min. 99.8 %), CHEMSOLUTE®	ISO

80	Triethylamine	T0886-100ML	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). Relative density: about 0.727. Refractive index: about 1.401. bp: about 90 °C. Corespunde cu Triethylamine R1: Content: minimum 99.5 per cent, determined by gas chromatography. Water: maximum 0.1 per cen. și Triethylamine R2: Content: minimum 99.5 per cent, determined by gas chromatography. It is suitable for gradient elution in liquid chromatography. Ambalaj 100 mL	Triethylamine ≥99%	ISO
81	Sodium dodecyl sulfate	CN30.3	Germania	Roth	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 1 kg	SDS Pellets, min. 99 %, for biochemistry, 1KG, plastic, Roth	ISO
83	Titrant Karl Fischer one component	34805-1L	Germania	Honeywell	Karl Fischer reagent for volumetric titration 5, 5 mg H <sub>2</sub> O/mL used with methanol. Ambalaj 1 L	HYDRANAL™ - Composite 5, Titrating agent for volumetric one-component Karl Fischer titration (methanol free), Titer (water equivalent) 4.5 - 5.5 mg/ml, Honeywell	ISO
84	Calcium oxide	CN88.1	Germania	Roth	Assay ≥90%. Ambalaj 500 g	Calcium oxide, min. 96 %, extra pure, 500 g, plastic, Roth	ISO
85	Caffeine melting point standard	RMP236	Germania	Reagecon	NIST, Traceable CRM. Ambalaj 1 g	Caffeine 235 ... 237 °C, Melting point Standards, High Purity range compatible with all Melting Point Instruments. Tested on a high specification melting point apparatus. Shelf life of 3 years (from date of manufacturing). Available as Single Melting Point Standard or as a Set of 3 different Standards. Glass bottles of 1 g. Reagecon	ISO
86	Vanillin melting point standard	RMP082	Germania	Reagecon	NIST, Traceable CRM. Ambalaj 1 g	Vanillin 81 ... 83 °C, Melting point Standards, High Purity range compatible with all Melting Point Instruments. Tested on a high specification melting point apparatus. Shelf life of 3 years (from date of manufacturing). Available as Single Melting Point Standard or as a Set of 3 different Standards. Glass bottles of 1 g. Reagecon	ISO
88	Dimethyl sulfoxide	34943-2.5L-M	Germania	Sigma Aldrich	conform Ph.Eur. Corespunde cu Dimethyl sulfoxide R1 și R2. Relative density : 1.100 to 1.104. Refractive index: 1.478 to 1.480. Freezing point: minimum 18.3 °C. Absorbance: not more than 0.30 at 275 nm and not more than 0.20 at both 285 nm and 295 nm. The substance to be examined shows no absorption maximum between 270 nm and 350 nm. Content: minimum 99.9 per cent, determined by gas chromatography. Absorbance (2.2.25): maximum 1.00 at 262 nm, 0.46 at 270 nm, 0.16 at 290 nm, 0.01 at 340 nm and higher wavelengths. Residue on evaporation: maximum 0.0005 per cent. Water: maximum 0.005 per cent. Ambalaj 2,5 L	Dimethyl sulfoxide puriss. p.a., dried, ≤0.02% water	ISO

89	Sodium phosphate dibasic dodecahydrate (CAS 10039-32-4)	1310-1KG	Germania	Chemsolute	conform Ph.Eur: Content: 98.5 per cent to 102.5 per cent. Monosodium phosphate: maximum 2.5 per cent. Chlorides: maximum 200 ppm.Sulfates : maximum 500 ppm. Iron: maximum 20 ppm. Loss on drying: 57.0 per cent to 61.0 per cent	di-Sodium hydrogen phosphate dodecahydrate puriss., DAB, Ph. Eur., BP, Ph. Franc. (98.5-101.0 %), CHEMSOLUTE®	ISO
90	Potassium phosphate monobasic (CAS 7778-77-0)	1648-1KG	Germania	Chemsolute	conform Ph.Eur: Content: 98.0 per cent to 100.5 per cent (dried substance). pH: 4.2 to 4.5. Chlorides maximum 200 ppm. Sulfates: maximum 300 ppm. Arsenic: maximum 2 ppm. Iron: maximum 10 ppm.Loss on drying: maximum 2.0 per cent. Ambalaj 500 g	Potassium dihydrogen phosphate p. a., ACS, ISO, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO
91	Potassium phosphate monobasic (CAS 7778-77-0)	1648-1KG	Germania	Chemsolute	Content: 98.0 per cent to 100.5 per cent (dried substance). HPLC suitable. Ambalaj 1 kg	Potassium dihydrogen phosphate p. a., ACS, ISO, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO
92	Sodium phosphate dibasic dihydrate (CAS 10028-24-7 )	8622-1KG	Germania	Chemsolute	conform Ph.Eur:Content: 98.0 per cent to 101.0 per cent (dried substance). Monosodium phosphate: maximum 2.5 per cent.Chlorides : maximum 400 ppm. Sulfates: maximum 0.1 per cent. Iron: maximum 40 ppm. Loss on drying: 19.5 per cent to 21.0 per cent. Ambalaj 500 g	di-Sodium hydrogen phosphate dihydrate p. a. (min. 99.5 %), CHEMSOLUTE®	ISO
93	Sodium phosphate dibasic dihydrate (CAS 10028-24-7)	27KE.2	Germania	Roth	Content: 98.0 per cent to 101.0 per cent (dried substance). HPLC suitable. Ambalaj 1 kg	di-Sodium hydrogen phosphate dihydrate, min. 99,5 %, HPLC, 250 g, plastic, Roth	ISO
94	Diethyl ether (CAS 60-29-7)	32203-1L	Germania	Sigma Aldrich	Conform Ph. Eur.: Distillation range between 34.0 °C and 35.0 °C. Non-volatile matter: maximum 20 mg/L. Volatile impurities: conform Ph. Eur. Water: maximum 2 g/L. Ambalaj 1 L.	Diethyl ether ≥99.8% (GC), ACS reagent, puriss. p.a., contains BHT as inhibitor, reag. Ph. Eur., reag. ISO, USP/NF	ISO
95	Osmolality standard 100 mOsm/kg H <sub>2</sub> O	RE-OSM-100	Germania	Reagecon	In ampules. CRM acc. Ph. Eur. 2.2.35, uncertainty max +-4%. Ambalaj set cu 5 sau 4 fiole de 5 mL.	Osmolality standards, 100 mOsmol/kg H <sub>2</sub> O, Reagecon, Osmolality Standards for calibration and control, compatible with all types of osmometers. Extensive range: 50 to 3000 mOsmol/kg H <sub>2</sub> O, ISO 17025 certified. Values from 100 to 700 mOsmol/kg H <sub>2</sub> O according to European Pharmacopoeia 2.2.35 and US Pharmacopoeia 785. 12 ampoules of 5 ml each.	ISO
96	Osmolality standard 200 mOsm/kg H <sub>2</sub> O	RE-OSM-200	Germania	Reagecon	In ampules. CRM acc. Ph. Eur. 2.2.35, uncertainty max +-4%. Ambalaj set cu 5 sau 4 fiole de 5 mL.	Osmolality standards, 200 mOsmol/kg H <sub>2</sub> O, Reagecon, Osmolality Standards for calibration and control, compatible with all types of osmometers. Extensive range: 50 to 3000 mOsmol/kg H <sub>2</sub> O, ISO 17025 certified. Values from 100 to 700 mOsmol/kg H <sub>2</sub> O according to European Pharmacopoeia 2.2.35 and US Pharmacopoeia 785. 12 ampoules of 5 ml each.	ISO
97	Osmolality standard 300 mOsm/kg H <sub>2</sub> O	RE-OSM-300	Germania	Reagecon	In ampules. CRM acc. Ph. Eur. 2.2.35, uncertainty max +-4%. Ambalaj set cu 5 sau 4 fiole de 5 mL.	Osmolality standards, 300 mOsmol/kg H <sub>2</sub> O, Reagecon, Osmolality Standards for calibration and control, compatible with all types of osmometers. Extensive range: 50 to 3000 mOsmol/kg H <sub>2</sub> O, ISO 17025 certified. Values from 100 to 700 mOsmol/kg H <sub>2</sub> O according to European Pharmacopoeia 2.2.35 and US Pharmacopoeia 785. 12 ampoules of 5 ml each.	ISO

98	Ethyl acetate	2219-2.5L	Germany	Chemsolute	Conform Ph.Eur a clear, colourless liquid, soluble in water, miscible with ethanol (96 per cent), assay $\geq 99.5\%$ (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%. Corresponds to Ethyl acetate R1: Suitable for gas chromatography ECD and FID. Equation: 0.90. Content: minimum 99.8 per cent. Evaporation residue: maximum 3.0 mg/L Water: maximum 0.02 per cent. Ambalaj: 2,5 L	Ethyl acetate for residue analysis (min. 99.8 %), CHEMSOLUTE®	ISO
99	Heptane	650536-1L	Germany	Honeywell	Conform Ph.Eur.: Colourless, flammable liquid, practically insoluble in water, miscible with anhydrous ethanol. Relative density: 0.683 to 0.686. Refractive index: 1.387 to 1.388. Distillation range: Not less than 95 per cent distils between 97 °C and 98 °C. HPLC grade. Ambalaj 1 L	Heptane, CHROMASOLV™ Plus, for HPLC, 99%, Honeywell	ISO
100	1-butanol	34867-1L	Germany	Honeywell	Conform Ph.Eur. Clear, colourless liquid, miscible with ethanol (96 per cent). Relative density: about 0.81. bp: 116 °C to 119 °C. HPLC grade. Ambalaj 1 L	1-Butanol, CHROMASOLV™ Plus, for HPLC, $\geq 99.7\%$ , Honeywell	ISO
101	1-propanol	34871-1L	Germany	Honeywell	Conform Ph.Eur. Non-volatile matter: maximum 0.004 per cent. Water: maximum 0.2 per cent. Relative density: about 0.802 to 0.806. bp: about 97.2 °C. Distillation range: Not less than 95 per cent distils between 96 °C and 99 °C. HPLC grade. Ambalaj 1 L	1-Propanol, CHROMASOLV™, for HPLC, $\geq 99.9\%$ , Honeywell	ISO
102	Bornyl acetat (CAS:5655-61-8)	45855-1ML-F	Germany	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
103	Resorcinol	16101-100G	Germany	Sigma Aldrich	Conform Ph.Eur not less than 98.5 per cent and not more than the equivalent of 101.0 per cent of benzene-1,3-diol, calculated with reference to the dried substance. Appearance of solution: conform Ph.Eur. Acidity or alkalinity: Conform Ph.Eur. Related substances: Conform Ph.Eur. Pyrocatechol: conform Ph.Eur. Loss on drying: Not more than 1.0 per cent. Sulfated ash: Not more than 0.1 per cent. Ambalaj 25 g	Resorcinol meets analytical specification of Ph. Eur., BP, 98.5-100.5% (calc. to the dried substance)	ISO
104	Mercury chloride	215465-100G	Germany	Sigma Aldrich	Conform Ph.Eur.: Content: 99.5 per cent to 100.5 per cent (dried substance). Appearance of solution: conform Ph.Eur. Acidity or alkalinity: conform Ph.Eur. Mercurous chloride: conform Ph.Eur. Loss on drying: maximum 1.0 per cent. Ambalaj 25 g	Mercury(II) chloride ACS reagent, $\geq 99.5\%$	ISO
105	Magnesium sulfate heptahydrate	1423-1KG	Germany	Chemsolute	Content: 99.0 per cent to 100.5 per cent (dried substance). Appearance of solution: Confoem Ph.Eur. Acidity or alkalinity: Conform Ph.Eur. Chlorides: maximum 300 ppm. Iron: maximum 20 ppm. Loss on drying: 48.0 per cent to 52.0 per cent. Ambalaj 25 g	Magnesium sulfate heptahydrate p. a., ACS, Ph. Eur. (min. 99.5 %), CHEMSOLUTE®	ISO

106	1,2-dichloroethane	319929-500ML	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 distils between 82 °C and 84 °C. HPLC suitable. Ambalaj 100 mL	1,2-Dichloroethane ACS reagent, ≥99.0%	ISO
108	4-Amino-3-hydroxy-1-naphthalenesulfonic acid	08751-25G	Germania	Sigma Aldrich	For spectrophotometric determination	4-Amino-3-hydroxy-1-naphthalenesulfonic acid for spectrophotometric det. of Si, ≥90.0% (CHN)	ISO

Valabilitatea ofertei - 60 zile

30.08.2024

Semnat: \_\_\_\_\_

Numele, Prenumele: **Pîslaru Rodica**

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