

SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: **ocds-b3wdp1-MD-1746426568202 din 05.05.2025**

Denumirea procedurii de achiziție: **Reactivi și consumabile pentru Laboratorul pentru Controlul Calității Medicamentelor**

<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>Producă- torul</i>	<i>Specificarea tehnică deplină</i>	<i>Specificarea tehnică deplină propusă de către ofertant</i>	<i>Standar- de de referință</i>
5	33600000-6	Tetrabutylammonium hydroxide solution 40% in water	86854-100ML	Germania	Sigma Aldrich	Ambalaj 50 mL	Tetrabutylammonium hydroxide solution ~40% in water, suitable for ion chromatography	ISO
6	33600000-6	Tetraheptylammonium bromide	87301-50G	Germania	Sigma Aldrich	Conform Ph.Eur. mp: 89 °C to 91 °C. Ambalaj g	Tetraheptylammonium bromide ≥99.0% (AT)	ISO
7	33600000-6	Sodium 1-octanesulfonate monohydrate (CAS 207596-29-0)	405931-25G	Germania	CARLO ERBA	Conform Ph.Eur. Ambalaj 25 g	1-Octanesulfonic acid sodium salt monohydrate RS - For ion pair chromatography, CARLO ERBA	ISO
8	33600000-6	Sodium 1-hexanesulfonate monohydrate	405921-25G	Germania	CARLO ERBA	Conform Ph.Eur. Ambalaj 25 g	1-Hexanesulphonic acid sodium salt monohydrate RS - For ion pair chromatography, CARLO ERBA	ISO
9	33600000-6	Tetrabutylammonium hydrogen sulfate for HPLC (CAS 32503-27-8)	90034313	Germania	Molekula	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. Ambalaj 50 g	Tetrabutylammonium hydrogen sulfate (TBAHS) for HPLC, Suitable for ion pair chromatography, ≥ 99.0%, (90034313 32503-27-8)	ISO

10	33600000-6	Methanol HPLC	34885-2.5L	Germania	Honeywell	≥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 L	Methanol, CHROMASOLV™, gradient grade, for HPLC, ≥99.9%, Honeywell	ISO
11	33600000-6	Acetonitrile HPLC	2685-2.5L	Germania	CHEMSOLUTE®	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_D²⁰): 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 ultragradient grade for HPLC (min. 99.9 %), filtrat prin filtru de 0,2 μm, CHEMSOLUTE®	ISO
12	33600000-6	Conductivity standard 5 μS/cm	1565-500ML	Germania	CHEMSOLUTE®	Certified reference material. La 25°C. Ambalaj 500 mL.	Conductivity Solutions, The ready-to-use CHEMSOLUTE® conductivity solutions are suitable for calibrations. Values stated at 25 °C, accuracy ±1 %, Traceable to the National Institute of Standards and Technology (NIST), Tested by an ISO 17025 accredited laboratory, 5 μS/cm, CHEMSOLUTE®	ISO

13	33600000-6	Conductivity standard 1,3 µS/cm	238973	Germania	Hamilton Bonaduz	Certified reference material. La 25°C. Ambalaj 500 mL.	Conductivity standards with certification, 1.3 µS/cm, Traceable to NIST Certificate including actual value and expiration date Actual value and expiration date on bottle Includes temperature table for accurate calibration Calibration certificate from DFM, Type 706 µS/cm and 100 mS/cm calibration certificate from Hamilton, Hamilton Bonaduz	ISO
14	33600000-6	Conductivity standard 84 µS/cm	1570-500ML	Germania	CHEMSOLUTE®	Certified reference material. La 25°C. Ambalaj 500 mL.	Conductivity Solutions, The ready-to-use CHEMSOLUTE® conductivity solutions are suitable for calibrations. Values stated at 25 °C, accuracy ±1 %, Traceable to the National Institute of Standards and Technology (NIST), Tested by an ISO 17025 accredited laboratory, 84 µS/cm, CHEMSOLUTE®	ISO
15	33600000-6	Ammonium persulfate (CAS 7727-54-0)	9592,2	Germania	Roth	Conform Ph.Eur. Ambalaj 100 g	Ammonium peroxydisulphate, min. 98 %, p.a., ACS, 50 g, plastic, Roth	ISO
16	33600000-6	Nessler's reagent	NSR60010	Ungaria	Biolab	for determination of ammonia and ammonium compounds. Ambalaj: 500ml.	for determination of ammonia and ammonium compounds. Ambalaj: 10ml.	ISO CE
17	33600000-6	1-propanol	34871-1L	Germania	Sigma Aldrich	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 distills between 96 °C and 99 °C. HPLC grade. Ambalaj 1 L	1-Propanol suitable for HPLC, ≥99.9%	ISO
18	33600000-6	Solvent Karl Fischer two component	1880152500	Germania	Sigma Aldrich	solvent for volumetric Karl Fischer titration with two component reagents. Ambalaj: 2.5 L.	Aquastar® Solvent two component solvent for volumetric Karl Fischer titration, Aquastar®	ISO
19	33600000-6	Hexylamine	A15663.AK	Germania	Alfa Aesar	Conform Ph.Eur. Refractive index: about 1.418; density about: 0.766; bp: 127-131 °C. Ambalaj 250 mL	1-Hexylamine, 99%, Thermo (Alfa Aesar)	ISO
20	33600000-6	Sodium potassium tartrate	7998.3	Germania	Roth	Conform Ph.Eur. Ambalaj 500 g	Potassium sodium tartrate tetrahydrate, min. 99 %, USP, 500 g, plastic, Roth	ISO
21	33600000-6	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	ISO
23	33600000-6	Potassium bromide	27781.16	Germania	AnalytiChem	Conform Ph.Eur. Content: 98.5 per cent to 101.0 per cent (dried substance). Acidity or alkalinity: conform Ph.Eur. Bromates: conform Ph.Eur. Chlorides and sulfates: conform Ph.Eur. Iodides: conform Ph.Eur. Iron: maximum 20 ppm. Magnesium and alkaline-earth metals: maximum 200 ppm, calculated as Ca. Loss on drying: maximum 1.0 per cent. Ambalaj 250 g	Potassium bromide for analysis, Reag. Ph. Eur., AnalytiChem	ISO

24	33600000-6	L-Isoleucine	1698.1	Germania	Roth	Conform Ph.Eur. Content: 98.5 per cent to 101.0 per cent (dried substance). Specific optical rotation: + 40.0 to + 43.0 (dried substance). Ninhydrin-positive substances: conform Ph.Eur. Chlorides: maximum 200 ppm. Sulfates: maximum 300 ppm. Ammonium: conform Ph.Eur. Iron: maximum 10 ppm. Loss on drying: maximum 0.5 per cent. Sulfated ash: maximum 0.1 per cent. Ambalaj 25 g	L-Isoleucine, min. 99 %, CELLPURE®, 25 g, plastic, Roth	ISO
25	33600000-6	Titrant Karl Fischer two component	1880100500	Germania	Sigma Aldrich	two-component reagent for volumetric Karl Fischer titration; titr-5 mg H ₂ O/ml. Ambalaj: 1L	Aquastar® Titrant 5 two component titrant for volumetric Karl Fischer titration, 1 ml $\cong$ ca. 5 mg H ₂ O Aquastar®	ISO
28	33600000-6	N,N-Dimethylformamide	33120-2.5L-R	Germania	Sigma Aldrich	Conform Ph.Eur. Density : 0.949 to 0.952. bp: about 153 °C. Water: maximum 0.1 per cent. Ambalaj 2,5 L	N,N-Dimethylformamide puriss. p.a., ACS reagent, reag. Ph. Eur., $\geq$ 99.8% (GC)	ISO
29	33600000-6	Hydrogen peroxide 30 weight % solution	9681,1	Germania	Roth	Conform Ph.Eur. Content: 29.0% - 31.0% m/m; Organic stabilisers: maximum 500 ppm; Non-volatile residue: maximum 2 g/L. Ambalaj: 2.5L	Hydrogen peroxide 30 %, Ph.Eur., stabilized, 1000 ml, plastic, Roth	ISO
30	33600000-6	Hexane	34859-2.5L	Germania	Honeywell	Conform Ph.Eur. Density: 0.659 to 0.663. Refractive index: 1.375 to 1.376. Distillation range. Not less than 95 per cent distils between 67 °C and 69 °C. Absorbance: maximum 0.01 from 260 nm to 420 nm. Suitable for HPLC. Ambalaj 2,5 L	Hexane, CHROMASOLV™, for HPLC, $\geq$ 97.0% (GC), Honeywell	ISO
31	33600000-6	Sodium dodecyl sulfate	223A.2	Germania	Roth	Conform Ph.Eur. Assay $\geq$ 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 / Sodium lauryl sulphate, min. 85 %, Ph. Eur., USP, 1KG, plastic, Roth	ISO
32	33600000-6	Potassium di-hydrogen phosphate (CAS 7778-77-0)	30407-1KG	Germania	Honeywell	Conform Ph.Eur. Content: 98.0 per cent to 100.5 per cent (dried substance). pH: 4.2 to 4.5. Reducing substances: conform Ph.Eur. Chlorides: maximum 200 ppm. Sulfates: maximum 300 ppm. Arsenic: maximum 2 ppm. Iron: maximum 10 ppm. Sodium: maximum 0.1 per cent. Loss on drying: maximum 2.0 per cent. Ambalaj 1 kg	Potassium dihydrogen phosphate, puriss. p.a., Reagent ISO, Reag. Ph. Eur., Honeywell	ISO
33	33600000-6	Titrant Karl Fischer one component	1880050500	Germania	Sigma Aldrich	one-component reagent for volumetric Karl Fischer titration; titr-5 mg H ₂ O/ml. Ambalaj: 1L.	Aquastar® CombiTitant 5 one component titrant for volumetric Karl Fischer titration, 1 ml $\cong$ ca. 5 mg H ₂ O, Aquastar®	ISO
34	33600000-6	Tetrabutylammonium hydroxide	86866-25G	Germania	Sigma Aldrich	Content: minimum 98.0 per cent of C16H37NO, 30H ₂ O. Ambalaj 50 g	Tetrabutylammonium hydroxide 30-hydrate $\geq$ 98.0% (T)	ISO
35	33600000-6	Tetrabutylammonium hydroxide solution 40% in methanol	366321000	Germania	Thermo Scientific Chemicals,	Ambalaj 50 mL	Tetrabutylammonium hydroxide, 40 wt.% solution in methanol, Thermo Scientific Chemicals,	ISO

36	33600000-6	2-Propanol	1136-1L	Germania	CHEMSOLUTE®	Conform Ph.Eur. Relative density:0.785. Boiling point: 81-83°C. Corespunde cu 2-Propanol R1 și R2: Refractive index 1.378. Water 0.05%. Absorbance maximum 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, 0.03 at 270 nm, 0.02 at 290 nm and 0.01 at 310 nm. Non-volatile substances: maximum 20 ppm. Ambalaj 1 L	2-Propanol p. a., ACS, ISO, Ph. Eur. (min. 99.8 %), CHEMSOLUTE®	ISO
37	33600000-6	Refractive index standard kit 1	1089620001	Germania	Sigma Aldrich	Refractive index la 20°C 1,391 nD. NIST, Traceable CRM	Refractive index standard kit 1 2,2,4-Trimethyl-pentane/water, traceable to NIST, traceable to PTB, n20/D 1.3915, Certipur®	ISO
38	33600000-6	Water Standard KF 1%	1880520010	Germania	Sigma Aldrich	Certified Reference Material for volumetric Karl Fischer Titration. Soluția de 1 %, cu incertitudinea măsurării. Ambalaj 8 mL sau 10 mL.	Water standard 1% Certified Reference Material for volumetric Karl Fischer Titration 1 g ≅ 10 mg H ₂ O Aquastar®	ISO
40	33600000-6	dimethyl sulfoxide (GC)	751954,1612	Germania	AppliChem	Conform Ph.Eur.Content: minimum 99.9 per cent, determined by gas chromatography. Residue on evaporation: maximum 0.0005 per cent. Water : maximum 0.005 per cent. For GC-HeadSpace. Ambalaj: 2.5L	Dimethyl Sulfoxide for Headspace GC, AppliChem	ISO
41	33600000-6	dimethyl sulfoxide	34943-2.5L-M	Germania	Sigma Aldrich	conform Ph.Eur. Corespunde cu Dimethyl sulfoxide R1. 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 99.7 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.Water: maximum 0.2 per cent. Ambalaj 2,5 L.	Dimethyl sulfoxide puriss. p.a., dried, ≤0.02% water	ISO
42	33600000-6	Potassium chloride	31248-500G	Germania	Honeywell	Conform Ph.Eur.Content: 99.0 per cent to 101.0 per cent of KCl (dried substance). Appearance of solution. Solution S is clear and colourless. Acidity or alkalinity: conform Ph.Eur. Bromides: maximum 0.1 per cent. Iodides: conform Ph.Eur. Sulfates: maximum 300 ppm. Aluminium: maximum 1.0 ppm. Iron: maximum 20 ppm. Magnesium and alkaline-earth metals: maximum 200 ppm, calculated as Ca.Sodium: maximum 0.1 per cent.Loss on drying: maximum 1.0 per cent. Ambalaj 250 g	Potassium chloride, puriss. p.a., Reag. ISO, Reag. Ph. Eur., 99.5-100.5%, Honeywell	ISO

43	33600000-6	Ammonium acetate	131114,1211	Germania	AppliChem	Conform Ph.Eur. Corespunde cu Ammonium acetate R1. Content: minimum 99.0 per cent (anhydrous substance).Water: maximum 1 per cent. Sulfated ash: maximum 0.01 per cent. Ambalaj 1 kg	Ammonium Acetate (Reag. USP, Ph. Eur.) for analysis, ACS, ppliChem	ISO
45	33600000-6	Butyl acetate	270687-1L	Germania	Sigma Aldrich	HPLC suitable	Butyl acetate suitable for HPLC, 99.7%	ISO
155	33600000-6	Tioglicolat Flud mediu,ambalaj 100ml steril	THM20100	Ungaria	Biolab	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate. Să fie indicat termenul de valabilitate a producătorului, care obligatoriu să fie minim 1 an, a mediului pregătit.	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate. Să fie indicat termenul de valabilitate a producătorului, care obligatoriu să fie minim 1 an, a mediului pregătit.	ISO CE IVD
157	33600000-6	MRS-agar	MRA20100	Ungaria	Biolab	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate. Să fie indicat termenul de valabilitate a producătorului, care obligatoriu să fie minim 1 an, a mediului pregătit...	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate. Să fie indicat termenul de valabilitate a producătorului, care obligatoriu să fie minim 1 an, a mediului pregătit...	ISO CE IVD
158	33600000-6	Reinforced medium pentru Clorstridii agar	RCA20100	Ungaria	Biolab	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate	Conform Ph Eur.2.6.12.; 2.6.13 Certificat de conformitate	ISO CE IVD
162	33600000-6	XLD agar	XLD20500	Ungaria	Biolab	Conform Ph Eur. 2.7.2. Certificat de conformitate. De cerut să fie indicat termenul de valabilitate de la producător a mediului pregătit.	Conform Ph Eur. 2.7.2. Certificat de conformitate. De cerut să fie indicat termenul de valabilitate de la producător a mediului pregătit.	ISO CE IVD
164	33600000-6	MacConkeyBroth	MBE20500	Ungaria	Biolab	Conform Ph Eur. 2.6.1; 2.6.12.; 2.6.13; Certificat de conformit De cerut să fie indicat termenul de valabilitate de la producător a mediului pregătit.ate.	Conform Ph Eur. 2.6.1; 2.6.12.; 2.6.13; Certificat de conformit De cerut să fie indicat termenul de valabilitate de la producător a mediului pregătit.ate.	ISO CE IVD

Semnat: _____

Valabilitatea ofertei: **60 zile**

Numele, Prenumele: **Michiciuc Gheorghe**

09.06.2025

Funcția: **Director**

Oferatntul: **SRL «Mic — Tan»**

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