

## SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: **ocds-b3wdp1-MD-1675761510303 din 07.02.2023**

Denumirea procedurii de achiziție: **Culturi de referință și reactivi chimici pentru microbiologie și chimie (LÎPA)**

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	Standarde de referință
1	33100000-1	LOT 1 ACETANILIDE (mrc proteine), cu certificat trasabil	397229-5G	Germania	Sigma Aldrich	Ambalaj original ,puritate $\geq 99,98$ ,cu certificat trasabil	Acetanilide purified by sublimation, $\geq 99.9\%$ , amb. 5 g	ISO
2	33100000-1	LOT 2 Acid sulfuric	28070010	Ucraina	Macrochem	Ambalaj original ,puritate $\geq 99,6$ , recipient de stila /plastic a cite 2,5 L	Acid sulfuric, puritate $\geq 99,6$ , recipient de stila amb.1 L	ISO
3	33100000-1	LOT 3 Acid boric	28100090	Ucraina	Macrochem	Ambalaj original, Puritate $\geq 99,5\%$	Acid boric, Puritate $\geq 99,5\%$ amb. 1Kg	ISO
4	33100000-1	LOT 5 Acid citric monohidrat	28100090	Ucraina	Macrochem	Ambalaj original ,puritate $\geq 99,6$	Acid citric monohidrat ,puritate $\geq 99,6$ , amb.0,5 kg	ISO
5	33100000-1	LOT 6 Acetona	34850-2.5L-M	Germania	Sigma Aldrich	Ambalaj original ,puritate $\geq 99,5$ recipient de stila a cite 2,5 L	Acetone suitable for HPLC, $\geq 99.8\%$ , amb. 2,5 L	ISO
6	33100000-1	LOT 7 Acid azotic 65 %	30709-1L	Germania	Honeywell	Ambalaj original, Puritate $\geq 99,5\%$	Nitric acid, puriss. p.a., Reag. ISO, Reag. Ph. Eur., for determinations with dithizone, $\geq 65\%$ , Honeywell, amb. 1 L	ISO
7	33100000-1	LOT 8 Acid clorhidric 37 %	30721-2.5L-GL	Germania	Honeywell	Ambalaj original ,puritate $\geq 99,0$ recipient de stila /plastic a cite 2,5 L	Hydrochloric acid, puriss. p.a., ACS Reagent, Reag. ISO, Reag. Ph. Eur., fuming, $\geq 37\%$ , APHA: $\leq 10$ , Honeywell, amb. 2,5 L	ISO
8	33100000-1	LOT 9 Apa oxigenata 33-37%	28470000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq 99,5\%$	Apa oxigenata 35%, amb. 1L	ISO
9	33100000-1	LOT 10 Amidon solubil	28470000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq 99,6\%$	Amidon solubil, Puritate $\geq 99,6\%$ , amb. 0,5 kg	ISO
10	33100000-1	LOT 11 Cloramina T (N -clor-p-toluen sulfonamida trihidrat)	23270-250G	Germania	Sigma Aldrich	Ambalaj original, Puritate $\geq 99,6\%$	Chloramine T trihydrate purum p.a., for the detection of halogens and bromate, $\geq 98.0\%$ (RT), amb. 250 g	ISO

11	33100000-1	LOT 12 Clorura de calciu	28272000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq$ 99,5%	Clorura de calciu, Puritate $\geq$ 99,5%, amb. 1Kg	ISO
12	33100000-1	LOT 13 Clorura de sodiu	28470000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq$ 99,5%	Clorura de sodiu, Puritate $\geq$ 99,5%, amb. 1Kg	ISO
13	33100000-1	LOT 14 Eter petroleic 40 -60	271012250	Ucraina	Macrochem	Ambalaj original, Puritate $\geq$ 99,8%	Eter petroleic 40 -60 ,Puritate $\geq$ 99,8%, amb. 5 L	ISO
14	33100000-1	LOT 15 Eter dietilic	32203-2.5L	Germania	Sigma Aldrich	Ambalaj original, Puritate $\geq$ 99,5%	Diethyl ether contains BHT as inhibitor, puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., $\geq$ 99.8%, amb. 2,5 L	ISO
15	33100000-1	LOT 16 Fixanal Silver nitrate concentrate standard solution 0,1 M AgNO <sub>3</sub> ( 0,1 N) cu certificat trasabil	38310-1EA	Germania	Honeywell	Fixanal Silver nitrate 0,1 mol/L, (0,1 N) , set a cite 6 flacoane de 1,0 L, solutie gata de utilizare,cu certificat trasabil	Silver nitrate concentrate, for 1L standard solution, 0.1 M AgNO <sub>3</sub> (0.1N), Honeywell	ISO
16	33100000-1	LOT 17 Fixanal Sodiu Hidroxid concentrate standard solution 0,1 M NaOH ( 0,1 N) cu certificat trasabil	38210-1EA	Germania	Honeywell	Fixanal Sodiu hidroxid 0,1 mol/L, (0,1 N) , set a cite 6 flacoane de 1,0 L, solutie gata de utilizare,cu certificat trasabil	Sodium hydroxide concentrate, for 1 L standard solution, 0.1 M NaOH (0.1 N), Honeywell	ISO
17	33100000-1	LOT 18 Fixanal Sodiu tiosulfat concentrate standard solution 0,1 M Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ( 0,1 N) cu certificat trasabil	38200-1EA	Germania	Honeywell	Fixanal Sodiu tiosulfat 0,1 mol/L, (0,1 N) , flacoane de 1,0 L, solutie gata de utilizare,cu certificat trasabil	Sodium thiosulfate concentrate, for 1L standard solution, 0.1 M Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (0.1N), Honeywell	ISO
18	33100000-1	LOT 19 Fixanal Hydrochloric acid concentrate standard solution 0,1 M HCl ( 0,1 N) cu certificat trasabil	38280-1EA	Germania	Honeywell	Fixanal hydrochloric acid 0,1 mol/L, (0,1 N) , flacoane de 1,0 L, solutie gata de utilizare,cu certificat trasabil	Hydrochloric acid concentrate, for 1 L standard solution, 0.1 M HCl (0.1 N), Honeywell	ISO
19	33100000-1	LOT 20 Fixanal sodiu chloride concentrate standard solution 0,1 M NaCl ( 0,1 N) cu certificat trasabil	1099450001	Germania	Sigma Aldrich	Fixanal sodiu chloride 0,1 mol/L, (0,1 N) , flacoane de 1,0 L, solutie gata de utilizare,cu certificat trasabil	Sodium chloride solution for 1000 ml, c(NaCl) = 0.1 mol/l (0.1 N) Titrisol®, Merck	ISO
20	33100000-1	LOT 21 Hidroxid de potasiu	28152000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq$ 99,0%	Hidroxid de potasiu, Puritate $\geq$ 99,0%, amb. 1Kg	ISO
21	33100000-1	LOT 22 Hirtie de indicator universala	2010/07332	Cehia	Erba	Ambalat in cutie de plastic, cite 1000 buc, pH 0-12	Hirtie de indicator universala, Ambalat in cutie de plastic, cite 100 buc, pH 0-12	ISO
22	33100000-1	LOT 23 Hexan	27101225	Ungaria	Mol	Ambalaj original, Puritate $\geq$ 99,5 %	Hexan, Puritate $\geq$ 99,5 % ,amb. 1L	ISO
23	33100000-1	LOT 24 Heptamolibdat de amoniu (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> x 4H <sub>2</sub> O	1011800250	Germania	Sigma Aldrich	Ambalaj original, Puritate $\geq$ 99,5 %	Ammonium heptamolybdate tetrahydrate (ammonium molybdate) cryst. extra pure (Assay (precipitative titration): 99.3 - 101.8 %), amb. 250 g	ISO
24	33100000-1	LOT 25 Hidroxid de sodiu	28151100	Ucraina	Macrochem	Puritate $\geq$ 99,5 %, ambalat cite 1-2 kg	Hidroxid de sodiu, Puritate $\geq$ 99,5 %, ambalat cite 1-2 kg	ISO
25	33100000-1	LOT 26 Kalium-natriu tartrat	2918130000	Ucraina	Macrochem	Ambalaj original, Puritate $\geq$ 99,5 %	Kalium-natriu tartrat, Puritate $\geq$ 99,5 %, amb. 1 kg	ISO
26	33100000-1	LOT 27 Monovanadat de amoniu	398128-50G	Germania	Sigma Aldrich	Ambalaj original, Puritate $\geq$ 99,0 %	Ammonium metavanadate ACS reagent, $\geq$ 99.0%, amb.50 g	ISO

27	33100000-1	LOT 28 MRC certificat Trace cert : Standard Nitrit de sodiu pentru cromatografia ionica IC (NO <sub>2</sub> ) cu concentratia 1000 mg/l , cu certificat trasabil	67276-100ML	Germania	Sigma Aldrich	Ambalaj original, Puritate≥ 99,9% Pentru cromatografia ionica de inalta performanta, cu certificate trasabil	Nitrite Standard for IC TraceCERT®, 1000 mg/L nitrite in water (pH ~11), amb. 100 ML	ISO
28	33100000-1	LOT 29 MRC certificat TraceCertr pentru fosfati: Phosphate phosphorus Standard for IC cu concentratia 1000 mg/1 P as phosphate in water, cu certificat trasabil	95924-100ML	Germania	Sigma Aldrich	Ambalaj original, Puritate≥ 99,9% Pentru cromatografia ionica de inalta performanta, cu certificate trasabil	Phosphate Phosphorus Standard for IC, amb. 100 ML	ISO
29	33100000-1	LOT 30 MRC Etalon standard L-TRYPTOPHAN ,cu certificat trasabil	PHR1176-1G	Germania	Sigma Aldrich	Ambalaj original, puritate ≥99,9 ambalat in fiola de sticla a cite 1,0 g ,cu certificat trasabil	Tryptophan Pharmaceutical Secondary Standard; Certified Reference Material, min 99.9%, amb.1 g	ISO
30	33100000-1	LOT 31 Mucosol	Z637203-5L	Germania	Sigma Aldrich	Ambalat in recipient de plastic a cite 5 L	Mucosol™ universal detergent volume 5 L	ISO
31	33100000-1	LOT 32 Pastile de catalizare Kjeldahl pentru determinarea proteine cu componenta: 5 g K <sub>2</sub> SO <sub>4</sub> ; 0,5 g CuSO <sub>4</sub>	1164691000	Germania	Sigma Aldrich	Recipient de metal / plastic a cite 1000 pastile de catalizare	Kjeldahl tablets (Potassium sulfate 5.0 g/ Copper(II)-sulfate 0.5 g), amb. 1000 buc	ISO
32	33100000-1	LOT 33 P-Toluidina	461121-250G	Germania	Sigma Aldrich	Ambalaj original, Puritate ≥ 99,5%	P-Toluidine 99%, amb. 250 g	ISO
33	33100000-1	LOT 34 2-propanol	34863-1L	Germania	Sigma Aldrich	Ambalaj original Puritate≥ 99,5 %	2-Propanol suitable for HPLC, 99.9%, amb. 1 L	ISO
34	33100000-1	LOT 35 Propanol-1	402893-1L-M	Germania	Sigma Aldrich	Ambalaj original, Puritate≥ 99,5 %	1-Propanol ACS reagent, ≥99.5%, amb. 1 L	ISO
35	33100000-1	LOT 36 Propilen glicol	134368-2.5L	Germania	Sigma Aldrich	Ambalaj original,Puritate≥ 99,5 %	1,2-Propanediol ReagentPlus®, 99%, amb. 2,5 L	ISO
36	33100000-1	LOT 40 Sodiu tetraborate decahydrate ACS	S9640-25G	Germania	Sigma Aldrich	Ambalaj original puritate ≥99,9 % ,cu certificat trasabil	Sodium tetraborate decahydrate ACS reagent, ≥99.5%, amb. 25 g	ISO
37	33100000-1	LOT 41 Sodium chloride puriss, p.a, reag. ISO, reag.Ph.Eur. ≥ 99,5 % ,cu certificat trasabil	13423-1KG-R	Germania	Sigma Aldrich	Ambalaj original, Puritate ≥ 99,5%	Sodium chloride puriss., meets analytical specification of Ph. Eur., BP, USP, 99.0-100.5% (calc. to the dried substance), ≤0.00002% Al, amb. 1 kg	ISO
38	33100000-1	LOT 42 Sulfat de cupru	28070012	Ucraina	Macrochem	Ambalaj original,Puritate≥ 99,0 %	Sulfat de cuprul, Puritate≥ 99,0 %, amb. 1 kg	ISO
39	33100000-1	LOT 43 Sulfat de potasiu	28070020	Ucraina	Macrochem	Ambalaj original,Puritate≥ 99,5 %	Sulfat de potasiu, Puritate≥ 99,5 %, amb. 1 kg	ISO
40	33100000-1	LOT 44 Sulfanilamid	S9251-100G	Germania	Sigma Aldrich	Ambalaj original,Puritate≥ 99,5 %	Sulfanilamide ≥98%, amb. 100 g	ISO
41	33100000-1	LOT 45 Solutii bufer gata de utilizare pH -4,0 ± 0,01 cu certificat trasabil	B5020-500ML	Germania	Sigma Aldrich	pH -4,0 ± 0,01 ( 20 °C) solutie colorata , culoarea rosie, ambalaj original , cu certificat trasabil la SI	Buffer, reference standard pH 4.00±0.01 (25 °C), Traceable to standard reference materials from NIST. A ready-to-use solution available in different packaging to offer ease-of-use, amb. 500 ML	ISO
42	33100000-1	LOT 46 Solutii bufer gata de utilizare pH 7,0 ± 0,01 cu certificat trasabil	B4770-500ML	Germania	Sigma Aldrich	pH -7,0 ± 0,01 ( 20 °C) solutie colorata , culoarea galbena, ambalaj original,cu certificat trasabil la SI	Buffer, reference standard pH 7.00±0.01 (25 °C) Traceable to standard reference materials from NIST. A ready-to-use solution available in different packaging to offer ease-of-use, amb. 500 ML	ISO

43	33100000-1	LOT 47 Solutii bufer gata de utilizare pH - 10,0 ± 0,01cu certificat trasabil	B4895-500ML	Germania	Sigma Aldrich	pH -10,0 ± 0,01 ( 20 °C) solutie colorata , culoarea albastra, ambalaj original, cu certificat trasabil la SI	Buffer, reference standard pH 10.00±0.01 (25 °C) Traceable to standard reference materials from NIST. A ready-to-use solution available in different packaging to offer ease-of-use, amb. 500 ML	ISO
44	33100000-1	LOT 48 Tetraborat de sodiu	28401990	Ucraina	Macrochem	Ambalaj original,Puritate≥ 99,5 %	Tetraborat de sodiu,Puritate≥ 99,5 %, amb.0,5 kg	ISO
45	33100000-1	LOT 72 Coloană ZORBAX Eclipse Plus C18 2.1x50mm 1.8-Micron	959757-902	Germania	Agilent	Coloană ZORBAX Rapid Resolution Eclipse Plus C18, 95 Å, 2.1 x 50 mm, 1.8 µm. Compatibil cu sistemele Agilent LCMS 6470 si Ultivo.	HPLC Column ZORBAX RRHD Eclipse Plus, C18, 95Å, 1,8 µm, 2,1 x 50 mm, amb. 500 ML	ISO
46	33100000-1	LOT 73 Coloană Poroshel 120EC C18 2.1x50mm 1.9-Micron	699675-902	Germania	Agilent	Coloană Poroshel 120EC C18 2.1x50mm 1.9-Micron Compatibil cu sistemele Agilent LCMS 6470 si Ultivo.	HPLC Column Poroshell 120 EC-C18, with column id, 1,9 µm, 2,1 x 50 mm	ISO

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

Valabilitatea ofertei: **30 zile**

Numele, Prenumele: **Gheorghe Michiciuc**

**18.02.2023**

In calitate de: **Director**

Oferatntul: **SRL «Mic — Tan»**

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