

LOT 1 Reactivi chimici si materiale referinta chimie generala

Nr. crt.	Laborator	Denumire	Specificatii	Ambalaj	UM	Cantitate	BN	SJ	MM	SM	Total
1		4-amino antipirina	GR for analysis, puritate ≥99%, temp. topire 107-109°C, pierderi la uscare(90°) ≤ 0.5 %, sensitivity test (phenol) conforms	100	g	1				1	2
2		2-Propanol HPLC, gradient grade	puritate min 99.9 %, reziduu la evaporare max 2 mg/l, aciditate max 0.0002 meq/g, alcalinitate max 0.0002 meq/g, filtrat prin membrana cu diametrul porilor de max 0,2 μm	2500	ml	2					2
3		acetona	pur. min 99,5 %, evaporation residue max 0,001%	1000	ml				1	1	2
4		Acetat de etil pentru cromatografie	Ethyl acetate, HPLC Plus, for HPLC, GC, and residue analysis, puritate ≥ 99.8%, reziduu la evaporare ≤ 3.0 mg/l, apa ≤ 0.02%	2500	ml	3					3
5		Acetonă pentru cromatografia de gaze	puritate min 99,8 %, reziduu la evaporare max 3 mg/l, lindan (GC-ECD) max 3 pg/ml	2500	ml	3					3
6		Acetonitril HPLC, gradient grade	puritate min 99,9 %, reziduu la evaporare max 2 mg/l, aciditate max 0.0002 meq/g, alcalinitate max 0.0002 meq/g, filtrat prin membrana cu diametrul porilor de max 0,2 μm	2500	ml	30					30
7		Acid acetic glacial d=1,05 g/ml	GR for analysis, continut ≥ 99.8%, d = 1.05 g/cm ³ , Fe ≤ 0.05%	1000	ml	1	2		1	1	5
8		Acid (L(+)) ascorbic	continut 99.7-100.5%, cristale albe, Fe ≤ 2 ppm, Cl ≤ 50 ppm, SO ₄ ≤ 20 ppm	250	g	1	1		1	1	4
9		Acid azotic 65% Suprapur	Cr max: 0.020 ppm; Cu max: 0.010 ppm; Pb max: 0.010 ppm; Cd max: 0.010 ppm	2500	ml	2					2
10		Acid barbituric		100	ml	1				1	2
11		Acid boric	Continut: 99.5-100.5%, Cl < 0.0003%, PO ₄ < 0.0005%, SO ₄ < 0.0005%; metale grele (Pb) ≤ 0.0005%, Ca ≤ 0.002%, Fe ≤ 0.0001%, Pb ≤ 0.001%	500	g	1			1		2
12		Acid clorhidric 1 N	Titrisol, pentru analiza, spec. density 1,02 g/ml; pH value < 1.0(H ₂ O, 20°C); volumetric solution in accordance with Ph Eur, USP; certified value traceable to NIST	1000	ml				2		2
13		Acid clorhidric 34-37% max 0,1 ppb Hg	continut: 34-37%; Hg < 0,1 ppb	1000	ml	4				2	6
14		Acid clorhidric 37%, d=1,19 g/l		2500	ml	2				1	3
15		Acid clorhidric 32%	GR for analysis, continut: 32-37%, cior fiber<0,5ppm; sulfati <1ppm; NH ₄ <1ppm; Ca <0,2ppm; Na <0,2ppm; Ni <0,02ppm; Pb <0,01ppm; Hg<0,01ppm; reziduu la calcinare (in SO ₄) <5ppm	2500	ml	1	1				2
16		Acid fosforic conc.	GR for analysis ISO, continut: >85%; Mn <0,5ppm; NO ₃ <3 ppm	1000	ml	1					1
17		Acid glutamic	for biochemistry, ≥99%, crystalline powder white	250	g	1			1		2
18		Acid stearic	for synthesis, pur > 97%	100						1	1

19	Acid sulfuric concentrat	GR for analysis ISO, continut: 96-97%; densitate 1,84 g/cm ³ (20 °C), NO ₃ <0,2ppm; PO ₄ <0,5ppm; reziduu la calcinare <3ppm	2500	ml	5	2	2	3	12
20	Albastru de mellen		10	g				1	1
21	Alcool etilic	ACS, ISO, Reag. Ph Eur puritate ≥ 99,2 %, densitate d 20/20C 0,790-0,793; metanol <0,1%; benzen <0,00002%; solventi reziduali lipsiti din procesul de fabricatie	1000	ml	8	3	2	8	5
22	Alcool izopropilic	continut ≥ 99,7%, SO ₄ ≤ 1000 ppb, Ba ≤ 0,00001%, Ca ≤ 0,00005%; densitate d 20/40C: 0,784-0,786	1000	ml		1		2	2
23	Amidon		100	g				1	1
24	Anhidrida acetica pentru analiza	Acetic acid anhydride, puritate ≥ 98,5%, reziduu la evaporare ≤ 20 ppm	1000	ml	3				3
25	Apa HPLC / Water for HPLC	reziduu la evaporare max 0,0003 %, filtrata prin membrana cu diametrul porilor de max 0,2 µm	2500	ml	5				5
26	apa ICP (impuritati la nivel de ppt)	impurități la nivel de ppt	1000	ml	6				6
27	Apa oxigenata 35%	peroxid de hidrogen (perhidrol) solutie 35%, d-1,39 g/ml	1000	ml	1		1		2
28	N-aftiourae (ATU)	for synthesis, ≥ 98%	50	g	1	1	1		4
29	Azida de sodiu	for synthesis, ≥ 99%	100	g				1	1
30	Azoiat de amoniu		500	g				1	1
31	Azoiat de argint 0,1 N	solutie pt 1000 ml AgNO ₃ ·0,1N, Titrisol, density: 1,01 g/cm ³ (20 °C), solub. in water		buc			1	1	3
32	Azoiat de magneziu, modifcator de matrice	modifcator pentru AAS, c(Mg)= 10 ± 0,2 g/l, Mg(NO ₃) ₂ ·6H ₂ O in 17% HNO ₃	50	ml			1	1	2
33	Azoiat de palladiu, modifcator de matrice	modifcator pentru AAS, c(Pd)= 10 ± 0,2 g/l, Pd(NO ₃) ₂ ·6H ₂ O in 15% HNO ₃	100	ml			1	1	1
34	Azoiat de potasiu	GR for analysis: continut ≥ 99,0%, NO ₂ ≤ 0,001%, NH ₄ ≤ 0,001%	100	g	1				1
35	Azoiat de sodiu	GR for analysis: continut ≥ 99,0 %, Cl ≤ 0,005%, SO ₄ ≤ 0,005%, Fe ≤ 0,001%	100	g	1				1
36	Bromat bromura solutie pt 1000 ml, c(Br ₂)=0,05mol/l (0,1 N)	foliă concentrată (alcătuită din KBr, KBrO ₃ și apă) cu concentrație finală după diluare de c(Br ₂)=0,05mol/l (0,1N) +/- 0,2%, pH > 5		foia	3				3
37	Carbonat acid de sodiu (bicarbonat)	puritate 99,7 - 100,3%, PO ₄ max. 0,001%, Fe max 0,0005%	500	g	2		1	1	4
38	Carbonat de calciu	Puritate: ≥99%	250	g	1				1
39	Carbonat de potasiu	Potassium carbonate, for analysis EMSURE® ACS, ISO, Reag. Ph Eur, puritate ≥ 99,0%, substante insolubile ≤ 0,005%	500	g	1				1
40	Carbonat de sodiu anhidru	GR for analysis ACS, ISO, Reag. Ph Eur, continut: ≥99,9%; PO ₄ <0,001%	1000	g	1		1		2
41	Citat trisodic dihidrat	continut: 99,0 - 101,0%, pH = 7,5 - 9,0, Cl ≤ 0,001%, C ₂ O ₄ ≤ 0,03%, PO ₄ ≤ 0,002%, SO ₄ ≤ 0,004%, N ≤ 0,001%, Pb ≤ 0,0005%, Ca ≤ 0,005%, Fe ≤ 0,0005%, NH ₃ ≤ 0,003%, H ₂ O ≤ 11,0 - 13,0%	500	g	1		1	1	3
42	Cloramina T	min 99,0%	250	g			1		1
43	Clorofom	GR for analysis ACS, ISO, Reag. Ph Eur, puritate: 99-99,4%; continut >99,8%;	2500	ml	2	1	1	1	7
44	Clorura de bariu	continut ≥ 99,0%, Ca ≤ 0,005%, Fe ≤ 0,0001%, K ≤ 0,0025%, insoluble matter max. 0,005%, ph: 5,2 - 8,2	1000	g	1		1	1	4

45	Clorură de calciu anhidră	Puritate: ≥99% Formă: Anhidră	250	g	1		1		2
46	Clorura de cesiu	for analysis, puritate min. 99.5%	25	g			1		1
47	Clorura de fier (III) hexahidrat	for analysis, puritate 99.0-102 %	250	g	1				1
48	Clorura de lantan	for analysis, puritate min.98 %	100	g			1		1
49	Clorura de mangan	for analysis, puritate 99-101%	1000	g			1		1
50	Clorura de potasiu	GR for analysis, puritate min 99.5%	250	g		1			1
51	Clorura de sodiu	GR for analysis, continut: >99.5%; SO4 ≤0.001%; Ca ≤0.002%; Mg ≤0.001%	1000	g	2		1	1	5
52	Clorura de sodiu 0.1 N	c(NaCl) = 0.1 mol/l (0.1 N) Titrisol; pentru 1000 ml solutie	fiola	buc			1		1
53	Clorura de staniu	continut: 98-103%; dihidrat	250	g					0
54	Cromat de potasiu	for analysis, min 99.5%, Cl max. 0.001%	500	g				1	1
55	Diclorozocianurat de sodiu dihidrat	for analysis, continut ≥ 98%	50	g	7		1	1	4
56	Dicromat de potasiu	for analysis, min 99.9%, insoluble matter max. 0.005%, Cl max.0.001%	500	g	1		1		2
57	dodecyl sulfat de sodiu	for biochemistry and surfactant tests, puritate ≥ 99.0-100.2 %	100	g	1		1		2
58	EDTA (sarea disodica a acidului etilendiaminotetraacetic dihidrat)	GR for analysis ACS, ISO, Reag. Ph Eur, puritate ≥99% by titration, Fe ≤ 5 ppm	250	g			1	1	2
59	Etanol pentru cromatografie	Etanol, puritate ≥ 99.9%, metanol ≤ 100 ppm, benzene ≤ 2 ppm, impuritati volatile totale ≤ 9 ppm	1000	ml	2				2
60	Fenol	GR for analysis, ACS,Reag. Ph Eur, continut(bromatometric): 99.5% - 100.5 %.	100	g				1	1
61	Feroina		500	g	1				1
62	Florasil	Florasil Adsorbent for Chromatography, 60-100 mesh	1000	g	1		1		2
63	Fosfat de amoniu, dihidrogeno-, modificator de matrice	modificator pentru AAS, c= 100 ± 2 g/l NH4H2PO4 in H2O	50	ml				1	1
64	Fosfat dipotasic	di-Potassium hydrogen phosphate trihydrate GR for analysis, continut: >99%	250	g	1				1
65	Formaldehida	Formaldehida 37%, d-0.815 g/l	1000	ml				1	1
66	Glicerină	glicerol p.a., min 99.5%, SO4 max. 0.001%	1000	ml	1				1
67	Glicina	continut: ≥ 99.7%; Cl ≤ 0.003%, SO4 ≤ 0.0025%, (Pb) ≤ 0.001%, Fe ≤ 0.0001%, PB ≤ 0.0001%, NH4 ≤ 0.002%, alti aminoacizi ≤ 0.1%	100	g	1			1	2
68	Glucosa	D(-)-Glucose anhydrous for biochemistry Reag. Ph Eur	250	g		1			2
69	Hexacianoferat (III) de potasiu	GR for analysis, ACS,Reag. Ph Eur, puritate ≥ 99.0 %, materii insolubile ≤ 0.005 %	250	g	1			1	2
70	hexadecane	pur > 99%	500	ml	1				1
71	Hexan, n-, pa	min 96%, puritȳ Σ hexane isomers + methylcyclopentane (GC) min 98.5%	2500	ml		1			2
72	n-Hexan pentru cromatografia de gaze	puritate min 96 %, reziduu la evaporare max 0.0001%, for GC residue analysis	2500	ml	32		1		33
73	Hidrogen-ftalat de potasiu	continut ≥ 99.5 %, pierdere la uscare (105 OC) ≤ 0.2 %, Cu ≤ 0.0002 %	250	g				1	1
74	Hidroxid de potasiu	perle, pentru analiza, continut ≥ 85%	1000	g	1				1

75	Hidroxid de sodiu, p.a.	perle, continut $\geq 99.0\%$, $\text{Na}_2\text{CO}_3 \leq 1.0\%$, $\text{Cl} \leq 0.0005\%$, $\text{PO}_4 \leq 0.0005$, $\text{SiO}_2 \leq 0.001\%$, $\text{SO}_4 \leq 0.0005\%$, $\text{N} \leq 0.0003\%$, $(\text{Pb}) \leq 0.0005\%$, $\text{Al} \leq 0.0005\%$, $\text{As} \leq 0.0001\%$, $\text{Ca} \leq 0.0005\%$, $\text{Cu} \leq 0.0002\%$, $\text{Fe} \leq 0.0005\%$, $\text{K} \leq 0.05\%$, $\text{Mg} \leq 0.0005\%$, $\text{Ni} \leq 0.00025$, $\text{Pb} \leq 0.0005\%$, $\text{Zn} \leq 0.001\%$	1000	9	3	1	2	5	11
76	Iodat de potasiu	for analysis, assay (iodometric) 99.7%- 100.4%	100	9		1			1
77	Isooctane pentru gaz-cromatografie	Isooctane, for gas chromatography ECD and FID SupraSolv®	2500	ml	2				2
78	Kit P Turb 555 T							1	1
79	Kit pentru analiza consumului chimic de oxigen	Testi kit Spectroquant® COD, domeniu de masurare 5- 80 mg/l	25 buc	set			2		2
80	Kit pentru analiza consumului chimic de oxigen	Testi kit Spectroquant® COD, domeniu de masurare 50-500 mg/l	25 buc	set			2		2
81	Metanol HPLC	puritate min 99.8 %, reziduu la evaporare max 3 mg/l, aciditate max 0,0002 meq/g, alcalinitate max 0,0002 meq/g, filtrat prin membrana cu diametrul porilor de max 0,2 µm	2500	ml	2				2
82	Metanol pentru cromatografie	Methyl alcohol, Methanol, suitable for GC, ≥99.9%	2500	ml	1				1
83	Metlorani	Puritate: ≥99%	100	g	1				1
84	Moliodal de amoniu tetrahidrat	continut: 99.3 - 101.8, $\text{Cl} \leq 0.002\%$, $\text{PO}_4 \leq 0.0005\%$, $\text{SO}_4 \leq 0.02\%$, $(\text{Pb}) \leq 0.001\%$, $\text{K} \leq 0.005\%$, $\text{Mg} \leq 0.005\%$, $\text{Na} \leq 0.005\%$, pentru analiza fosfatilor	250	g	1		1	1	3
85	Nitrozo-pentacianoferat de sodiu	continut 99.0 - 102.0%, cloruri $\leq 0.02\%$, hexacianoferati (II) ≤ 0.02 , hexacianoferati (III) $\leq 0.01\%$, sulfati $\leq 0.01\%$, pentru determinarea amoniului	100	g	1				1
86	Oxid de aluminiu, neutru, granulate 50-200 µm	adsorbent pentru cromatografie	1000	g	1				1
87	Peroxodisulfat de potasiu	continut $\geq 99.0\%$, $\text{Cl} \leq 0.001\%$, metale grele $(\text{Pb}) \leq 0.003\%$, $\text{Fe} \leq 0.001\%$, $\text{Mn} \leq 0.0001\%$	250	g		1	1	1	3
88	Peroxodisulfat de potasiu fara N	continut $\geq 99.0\%$, $\text{N} \leq 0.001\%$, $\text{Cl} \leq 0.001\%$, metale grele $(\text{Pb}) \leq 0.001\%$, $\text{Fe} \leq 0.0005\%$, $\text{Mn} \leq 0.0001\%$	250	g		1	1	1	3
89	reactiv de derivatizare MSTFA	N-Methyl-N-(trimethylsilyl)trifluoroacetamide, for GC derivatization, LiChropur™, ≥98.5%	1	ml	1				1
90	Rosu de metil		25			1			1
91	Salicilat de sodiu	continut $\geq 99.5\%$, $\text{Cl} \leq 0.002\%$, $\text{SO}_4 \leq 0.01\%$, $\text{Pb} \leq 0.001\%$, $\text{Fe} \leq 0.0015\%$, pentru determinare amoniu si azotati	500	g	1	1	1		3
92	Silicagel, 60 A, 0.063-0.20 mm	Silica gel for column chromatography, high-purity grade, pore size 60 Å, 230-400 mesh particle size, 40-63 µm particle size	1000	g	1				1
93	solutie standard Arsen	pt. AAS, dizolvat in HNO_3 0.5 mol/l, 1000 mg/l	100	ml				1	1
94	Solutie standard azotati 1000 mg/l NO3-	continut: NaNO_3 in H_2O , conc. NO_3 : 990-1010 mg/l	500	ml				1	1
95	Solutie standard azotiti 1000 mg/l NO2-	continut: NaNO_2 in H_2O , conc. NO_2 : 990-1010 mg/l	500	ml				1	1
96	solutie standard cadmiu	concentratie 1000 mg/l, pentru AAS, traceable to NIST-SRM	100	ml				1	1
97	Solutie standard cloruri 1000 mg/l Cl-	continut: NaCl in H_2O , conc. Cl : 990-1010 mg/l	500	ml				1	1
98	solutie standard Crom	concentratie 1000 mg/l, pentru AAS, traceable to NIST-SRM	100	ml				1	1
99	solutie standard Cupru	concentratie 1000 mg/l, pentru AAS, traceable to NIST-SRM	100	ml				1	1
100	solutie standard Fier	concentratie 1000 mg/l, pentru AAS, traceable to NIST-SRM	100	ml				1	1

101	solutie standard mangan	concentratie 1000 mg/l, pentru AAS, traceabile to NIST-SRM	100	ml					1	1
102	solutie standard nichel	concentratie 990-1010 mg/l, +/- 2 mg/l, traceabile to NIST-SRM	100	ml					1	1
103	solutie standard plumb	concentratie 1000 mg/l, pentru AAS, traceabile to NIST-SRM	100	ml					1	1
104	solutie standard potasiu	concentratie 1000 mg/l, pentru AAS, traceabile to NIST-SRM	100	ml					1	1
105	solutie standard sodiu	concentratie 1000 mg/l, pentru AAS, traceabile to NIST-SRM	100	ml					1	1
106	solutie standard sulfati - 1000 mg/l								1	1
107	solutie standard zinc	concentratie 1000 mg/l, pentru AAS, traceabile to NIST-SRM	100	ml					1	1
108	Solutie standard de conductivitate HACH 0,147 mS/cm	147 µS/cm ± 5 µS/cm la 25 oC, sub forma de KCl (c=0,001 mol/l), trasabila NIST	250	ml					1	1
109	Solutie standard de conductivitate HACH 1,41 mS/cm	1413 µS/cm ± 12 µS/cm la 25 oC, sub forma de KCl (c=0,01 mol/l), trasabila NIST	250	ml					1	1
110	Solutie tampon pH 10	Buffer solution, (boric acid/potassium chloride/sodium hydroxide), traceable to SRM from NIST and PTB, pH 10.00 (25 oC), Certipur	500	ml		1			1	2
111	Solutie tampon pH 4	Buffer solution, (potassium hydrogen phthalate), traceable to SRM from NIST and PTB, pH 4.01 (25 oC), Certipur	500	ml		1			1	2
112	Solutie tampon pH 7	Buffer solution, (potassium dihydrogen phosphate/di-sodium hydrogen phosphate), traceable to SRM from NIST and PTB, pH 7.00 (25 oC), Certipur	500	ml		1			1	2
113	solutie standard pH 6,86	di-sodium hydrogen phosphate/potassium dihydrogen phosphate, traceable to NIST, traceabile to PTB, pH 6.86 (25 °C)	500	ml		1				1
114	Solutie curatare electrod pH / HACH / normala		250	ml						1
115	Solutie curatare electrod pH / HACH / strong		250	ml						1
116	Soluție de umplere, Referință, 2,44 M KCl, 59 ml	soluție de umplere electrod pH HACH, de concentrație 2,44 M KCl	59	ml				1		1
117	Solutie pH WTW tehnic 10, 250 ml	buffer solution pH WTW technical TPL 10, 250 ml; pentru WTW Inolab 730/740	250	ml			1			1
118	solutie pH HACH tehnic 10	pH 10.01±0.02 la 25°C, solutie tampon cu cod de culoare	500	ml			1			1
119	solutie pH HACH tehnic 4	pH 4.01 la 25°C, solutie tampon cu cod de culoare	500	ml			1			1
120	solutie pH HACH tehnic 7	pH 7.00±0.02 la 25°C, solutie tampon cu cod de culoare	500	ml			1			1
121	Sulfat de argint	for analysis, assay (argentometric) min. 98,5%	50	g		1			1	2
122	Sulfat de cupru pentahidrat p.a.	GR for analysis ACS, ISO, Reag. Ph Eur, assay iodometric 99.0 - 100.5 %	1000	g				1		1
123	sulfat de fier II și amoniu	for analysis, Assay (manganometric) 99 - 101,5%	500	g		1		1	1	5
124	sulfat de magneziu	min 99,5%, pH value (5%:water) 5,0 - 8,0, heptahidrat	500	g		1				1
125	Sulfat de mangan		1000	g					1	1
126	Sulfat de mangan monohidrat	for analysis, assay (complexometric) 98 - 101,0%	250	g			1			1
127	Sulfat de mercur	for analysis, assay (complexometric) ≥98 %	250	g		1				2
128	Sulfat de sodiu anhidru	min 99,0%, GR for analysis, particule size 0,25 - 2 mm, ACS, ISO, ph: 5.2 - 8,0	1000	g		2			2	4
129	Sulfat de sodiu	Gr for analysis, anhidru, assay (iodometric): 97 0-100 5%	500	g		1			1	2

130	Tartaral de sodiu si potasiu	GR for analysis ACS, ISO, Reag. Ph Eur, assay (alkalimetric) 99,0 - 102,0 %	1000	g						1									1
131	Tartaral de sibiuiu si potasiu	for analysis, assay 99,0 - 103,0%	250	g		1				1									2
132	Tiosulfatul de sodiu solutie pentru 1000 ml. $c(\text{Na}_2\text{S}_2\text{O}_3)=0,1 \text{ mol/l (0,1N)}$	Titrsool, pentru analiza, p: 1,22 g/cm ³ (20°C), solutie pentru 1000 ml, $c(\text{Na}_2\text{S}_2\text{O}_3)=0,1 \text{ mol/l (0,1N)}$	folia	buc					1	1									3
133	Nutrienti pentru CBO5, 6 L, HACH	permutie de solutie tampon nutrient pentru pregatirea a 6 litri apa de dilutie	50 buc	cutie		1				1									2
134	Nutrienti pentru CBO5, 3 L, HACH	permutie de solutie tampon nutrient pentru pregatirea a 3 litri apa de dilutie	50 buc	cutie		1				1									2

Sef laborator
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