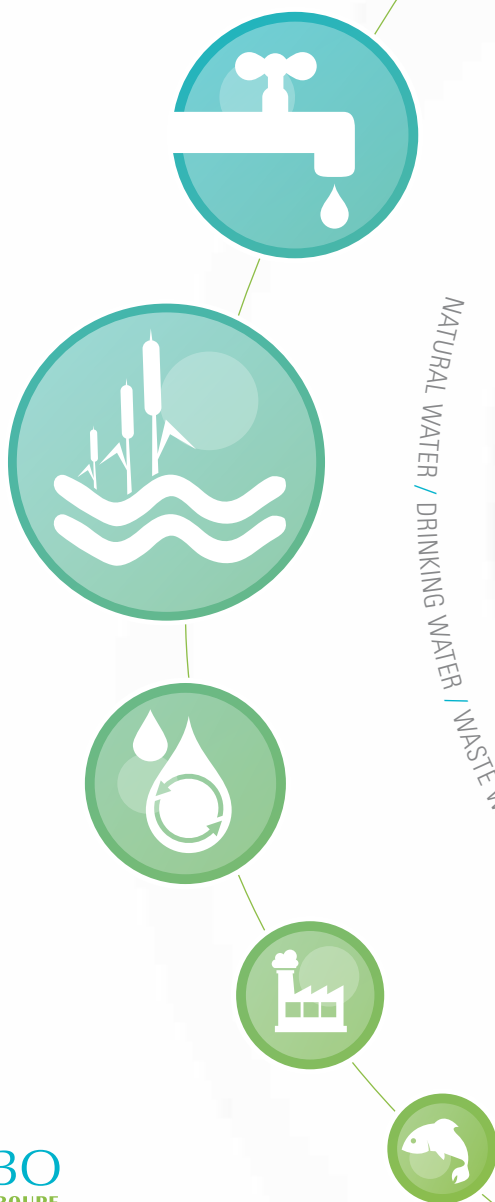


AQUALABO

ANALYSE



NATURAL WATER / DRINKING WATER / WASTE WATER / INDUSTRIAL WATER / PROCESS WATER / FISH FARMING

AQUOLABO

GROUP



Catalog

AQUALABO

ANALYSE

Test kits

Colorimetry

Titrimetry



Spectrophotometry

Instrumentation

Chemical Reagents



2015 Edition. This edition supersedes all previous editions.
The characteristics of the products featured in this catalogue are susceptible to change without notice.
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Word of the CEO

Dear customers and partners,

In order to propose an offer increasingly complete composed of innovative and quality products, the Aqualabo Group is pleased to welcome Secomam and Aqualyse products in its offer.

This offer is now proposed by Aqualabo Analyse for reagents and laboratory equipment, and Aqualabo Controle for instrumentation and telemanagement.











The Aqualabo Analyse catalogue presents Orchidis and Secomam Secomam products.

Specialized in chemistry and opto-electronics, Orchidis and Secomam design and produce their material in France, and for over 50 years. Backed by those many years of experience, our R & D teams are working to innovate in order to provide the products of tomorrow who will meet your needs and respond to changes in your business.

We are proud to present this new catalogue that will allow you to discover the extend of our products range and guide you in your choices.

Stanislas Rault
CEO Aqualabo Group

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Indicator paper

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mg/l



Colorimetry / drop count titrimetry

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mg/l



Burette Titrimetry

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Digital tirator titrimetry

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Photometry Spectrophotometry

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mg/l

		See page 8 mg/l	See page 10 mg/l	See page 15	See page 17	See page 18 mg/l
Ascorbic Acid		0 - 2000	-	-	-	-
Peracetic Acid		0 - 50	-	-	-	-
		0 - 500	-	-	-	-
		0 - 2000	-	-	-	-
Acidity		-	-	0 - 30°F	1 - 16°F	-
		-	-	-	10 - 400°F	-
		-	-	-	-	-
Cyanuric Acid		-	0 - 200	-	-	10 - 200
Alkalinity	p- and m--		0 - 60°F	0 - 30°F	1 - 16°F	2 - 50 °F
	-		5 - 240°F	-	10 - 400°F	-
Aluminium	Al ³⁺	0 - 500	0 - 0,5	-	-	0,05 - 3,00
	-	-	-	-	-	0,20 - 3,00
	-	-	-	-	-	0,05 - 1,00
	-	-	-	-	-	0,02 - 0,30
Ammonium	NH ⁴⁺	0 - 400	0,1 - 1	-	-	1,0 - 30,0
	-	-	0,05 - 0,5	-	-	0,30 - 6,00
	-	-	0 - 50	-	-	0,10 - 2,00
Starch		-	presence/absence	-	-	-
Silver	Ag ⁺	0,5 - 10 g/l	-	-	-	-
Arsenic	As ^{3+/5+}	0 - 0,5	-	-	-	-
		0 - 3,0	-	-	-	-
Nitrogen	N	-	-	-	-	5 - 100
		-	-	-	-	1,0 - 25,0
Benzotriazole		-	-	-	-	1,0 - 16,0
Boron	B ³⁺	-	-	-	-	0,50 - 10,0
Bromine	Br ₂	-	0,045 - 0,79	-	-	0,90 - 13,5
	-	-	-	-	-	0,10 - 2,25
Calcium	Ca ²⁺	0 -100	2 - 60°F	0 - 30°F	1 - 16°F	20 - 200
	-	-	-	-	10 - 400°F	2,0 - 20,0
Free Chlorine	Cl ₂	0 - 100	0,02 - 0,35	-	1 - 400 mg/l	0,40 - 6,00
		0 - 10	0,1 - 2	-	20 - 2000 mg/l	0,50 - 6,00
		-	10 - 100	-	2000 - 70000 mg/l	0,05 - 1,00
		-	100 - 250	-	-	-



Indicator paper

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mg/l



Colorimetry / drop count titrimetry

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mg/l



Burette Titrimetry

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Digital tirator titrimetry

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Photometry Spectrophotometry

See page 18
mg/l

		Indicator paper	Colorimetry / drop count titrimetry	Burette Titrimetry	Digital tirator titrimetry	Photometry Spectrophotometry
		See page 8 mg/l	See page 10 mg/l	See page 15	See page 17	See page 18 mg/l
Total Chlorine	Cl ₂	-	0,02 - 0,35	-	-	0,40 - 6,00
		-	0,1 - 2	-	-	0,50 - 6,00
		-	2 - 6	-	-	0,05 - 1,00
		-	0,1 - 12	-	-	-
Chlorides	Cl ⁻	0 - 3000	2 - 250	0 - 30°F	10-100 mg/l	10 - 500
		-	10 - 400	-	100-10000 mg/l	1,0 - 50,0
		-	200 - 1000	-	-	5 - 200
		-	-	-	-	0,50 - 20,0
Chromate	CrO ₄	0 - 100	0,03 - 1,0	-	-	0,10 - 4,00
		-	-	-	-	0,05 - 4,00
Cobalt	Co ²⁺	0 - 1000	-	-	-	-
Color of water	-	-	15 - 200	-	-	-
Copper	Cu ²⁺	0 - 300	0,5 - 5,0	-	-	0,05 - 5,00
		-	0,1 - 1,0	-	-	0,20 - 5,00
Cyanides	CN ⁻	0 - 30	0 - 0,5	-	-	0,02 - 0,50
COD		-	-	-	-	1,0 - 15,0 g/L
		-	-	-	-	0,10 - 1,50 g/L
		-	-	-	-	10 - 150 mg/l
DEHA		-	0,05 - 1	-	-	0,02 - 1,00
		-	-	-	-	0,02 - 2,00
Carbon Dioxide	CO ₂	-	-	0 - 30°F	-	-
Chlorine Dioxide	ClO ₂	-	0,19 - 3,8	-	-	2,4 - 28,5
		-	-	-	-	0,20 - 4,75
hardness	TH	0 - 45°F	0 - 2°F	0 - 30°F	1 - 16°F	5,0 - 50,0 °F
		-	1 - 60°F	-	10 - 400°F	2,0 - 20,0 °F
Carbonate hardness		0 - 36°F	-	-	-	-
EDTA	EDTA	0 - 400	-	-	-	-
Tin	Sn ²⁺	0 - 500	-	-	-	-
Iron	Fe ^{2+/3+}	0 - 100	presence/absence	-	-	0,05 - 5,00
		0 - 1000	0,06 - 1	-	-	0,20 - 20,0
		-	0,3 - 5	-	-	-
Fluorides	F ⁻	0 - 100	-	-	-	0,10 - 2,00
		-	-	-	-	0,20 - 2,00



Indicator paper

See page 8
mg/l



Colorimetry / drop count titrimetry

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mg/l



Burette Titrimetry

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Digital tirator titrimetry

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Photometry Spectrophotometry

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mg/l

		See page 8 mg/l	See page 10 mg/l	See page 15	See page 17	See page 18 mg/l
Formaldehyde	HCHO	0 - 200	-	-	-	-
Glucose		0 - 2000	-	-	-	-
Oil in water		presence/absence	-	-	-	-
Hydrazine	N ₂ H ₄	-	0 - 1	-	-	0,10 - 2,00
		-	0 - 0,15	-	-	0,02 - 1,00
Bleach		-	100 - 1000	-	-	-
		-	30 - 150	-	-	-
		-	47 - 50°	-	-	-
Magnesium	Mg ²⁺	-	2 - 60 °F	0 - 30°F	-	5,0 - 50,0
		-	-	-	-	0,50 - 5,00
Manganese	Mn ²⁺	-	0,05 - 2	-	-	0,20 - 5,00
		-	-	-	-	0,10 - 8,00
Organic Matter		-	-	0 - 30°F	-	-
Molybdate	Mo ⁶⁺	0 - 250	2 - 300	-	-	20 - 200
		-	-	-	-	3,0 - 60,0
		-	-	-	-	0,5 - 165
		-	-	-	-	0,5 - 20,0
Nickel	Ni ²⁺	0 - 1000	-	-	-	0,10 - 5,00
		-	-	-	-	0,50 - 10,0
Nitrates	NO ³⁻	0 - 500	0 - 200	-	-	20 - 200
		0 - 50	0 - 50	-	-	4,0 - 100
		-	-	-	-	2,5 - 100
		-	-	-	-	0,25 - 10,0
		-	-	-	-	0,50 - 5,00
Nitrites	NO ²⁻	0 - 80	0,018 - 0,36	-	-	13 - 1330
		0 - 3 g/l	0,1 - 2	-	-	1,3 - 133
		-	-	-	-	0,05 - 2,00
		-	-	-	-	6,7 - 330
		-	-	-	-	0,7 - 33,0
Oxygene	O ₂	0 - 25	0,3 - 6	-	-	-
		-	0,02 - 0,34	-	-	-
		-	0,02 - 6,0	-	-	-
Ozone	O ₃	-	0,07 - 1,4	-	-	0,30 - 4,00
		-	0,014 - 0,24	-	-	0,03 - 0,65



Indicator paper

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mg/l



Colorimetry / drop count titrimetry

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mg/l



Burette Titrimetry

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Digital tirator titrimetry

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Photometry Spectrophotometry

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mg/l

		See page 8 mg/l	See page 10 mg/l	See page 15	See page 17	See page 18 mg/l
Peroxyde	H ₂ O ₂	0 - 25	-	-	-	2 - 200
		0 - 100	-	-	-	0,05 - 2,00
		0 - 1000	-	-	-	-
pH		0 - 14	3,7 - 11,8	-	-	6,8 - 8,6
		(details p9)	(details p13 - 14)	-	-	-
Phenol		-	-	-	-	0,05 - 10,0
Phosphates	PO ₄ ³⁻	0 - 100	0,7 - 13,4	-	-	3,0 - 125
		10 - 500	6 - 80	-	-	2,0 - 100
		-	0 - 10 P205	-	-	1,0 - 40,0
		-	-	-	-	0,20 - 5,00
		-	-	-	-	0,20 - 4,00
Phosphorus	P	-	-	-	-	1,0 - 15,0
		-	-	-	-	0,10 - 1,50
Lead	Pb ²⁺	20 - 500	-	-	-	-
Polyacrylates		-	18 - 100 NTU	-	-	-
Potassium	K ⁺	0 - 1500	-	-	-	2,0 - 15,0
Strong Acid Salt		-	-	0 - 30°F	-	-
Silica	SiO ₂	-	0,2 - 2,0	-	-	10 - 300
		-	3 - 50	-	-	5 - 150
		-	20 - 200	-	-	0,2 - 10,0
		-	-	-	-	0,05 - 10,0
Sodium Hydroxide		-	-	0 - 30°F	-	-
Sulfates	SO ₄ ²⁻	200 - 1600	40 - 160	-	-	10 - 400
		-	-	-	-	10 - 200
		-	-	-	-	5 - 300
Sulfites	SO ₃ ²⁻	0 - 1000	5 - 250	0 - 30°F	0 - 400 mg/l	-
		10 - 400	0 - 50	-	-	-
Sulfides	S ²⁻	-	-	-	-	0,05 - 0,60
Tannates		-	-	-	-	-
Turbidity		-	-	-	-	10 - 4000 NTU
		-	-	-	-	10 - 100 NTU
Zinc	Zn ²⁺	10 - 250	0 - 2,0	-	-	0,05 - 5,00
		-	-	-	-	0,10 - 4,00



Test Strips

Cheap and easy to use, test strips allow you to perform quick and efficient water diagnosis. Ready to use, no device is required. The strip is dipped for a few seconds in water. A color appears on the strip. The result is obtained by comparing the color with a color scale. Box with 100 strips



Parameter		Range	Gradation	Ref
Ascorbic acid	Ac. Ascorbique	0 - 2000 mg/l	0-50-100-200-300-500-1000-2000	1PI314
Peracetic acid 50	CH ₃ CO ₃ H	5 - 50 mg/l	5-10-20-30-50	1PI340
Peracetic acid 500	CH ₃ CO ₃ H	0 - 500 mg/l	0-100-150-200-250-300-400-500	1PI341
Peracetic acid 5000	CH ₃ CO ₃ H	0 - 2000 mg/l	0-500-1000-1500-2000	1PI342
Aluminium	Al ³⁺	0 - 500 mg/l	0-5-20-50-200-500	1PI307
Ammonium	NH ₄ ⁺	0 - 400 mg/l	0-10-25-50-100-200-400	1PI315
Silver	Ag ⁺	0,5 - 10 g/l	0,5-1-1,7-3-5-7-10 g/l	1PI350
Arsenic 10	As ^{3+/5+}	0 - 0,5 mg/l	0-0,01-0,025-0,05-0,1-0,5	1PI334
Arsenic 50	As ^{3+/5+}	0 - 3,0 mg/l	0-0,05-0,1-0,5-1-1,7-3,0	1PI332
Sensitive Arsenic	As ^{3+/5+}	0 - 0,5 mg/l	0-0,005-0,01-0,025-0,05-0,1-0,25-0,5	1PI345
Calcium	Ca ²⁺	0 -100 mg/l	0-10-25-50-100	1PI324
Chlorine	Cl ₂	0 - 100 mg/l	0-1-3-10-30-100	1PI317
Sensitive Chlorine	Cl ₂	0 - 10 mg/l	0-0,1-0,5-1-3-10	1PI339
Chloride	Cl ⁻	0 - 3000 mg/l	0-500-1000-1500-2000->3000	1PI321
Chromate	CrO ₄	0 - 100 mg/l	0-3-10-30-100	1PI301
Cobalt	Co ²⁺	0 - 1000 mg/l	0-10-25-50-100-250-500-1000	1PI303
Copper	Cu ²⁺	0 - 300 mg/l	0-10-30-100-300	1PI304
Cyanide	CN ⁻	0 - 30 mg/l	0-1-3-10-30	1PI318
Carbonate hardness		0 - 36°F	0-5,4-10,8-18-27-36°F	1PI323
Total hardness		0 - 45°F	0-5-9-18-27-36-45°F	1PI021
EDTA	EDTA	0 - 400 mg/l	0-100-200-300-400	1PI335
Tin	Sn ²⁺	0 - 500 mg/l	0-10-25-50-100-250-500	1PI309
Iron 100	Fe ^{2+/3+}	0 - 100 mg/l	0-2-5-10-25-50-100	1PI344
Iron 1000	Fe ^{2+/3+}	0 - 1000 mg/l	0-5-20-50-100-250-500-1000	1PI330
Fluoride	F ⁻	0 - 100 mg/l	0-2-5-10-20-50-100	1PI734
Formaldehyde	HCHO	0 - 200 mg/l	0-10-20-40-60-100-200	1PI328
Glucose	glucose	0 - 2000 mg/l	0-50-100-250-500-1000-2000	1PI348
Oil in water			absence/presence	1PI760
Molybdene	Mo ⁶⁺	0 - 250 mg/l	0-5-20-50-100-250	1PI325
Nickel	Ni ²⁺	0 - 1000 mg/l	0-10-25-50-100-250-500-1000	1PI305
Nitrate/Nitrite	NO ₃ ⁻	0 - 500 mg/l	0-10-25-50-100-250-500	1PI313
	NO ₂ ⁻	0 - 80 mg/l	0-1-5-10-20-40-80	
Nitrate 100 tests	NO ₂ ⁻	0 - 50 mg/l	0-0,5-2-5-10-20-50	1PI027
Nitrite	NO ₂ ⁻	0 - 80 mg/l	0-1-5-10-20-40-80	1PI311
Nitrite 3000	NO ₂ ⁻	0 - 3 g/l	0-0,1-0,3-0,6-1-2-3	1PI322
Oxygen	O ₂	0 - 25 mg/l	0-4-8-15-25	1PI349
pH		See the specific page about pH indicator papers		
Peroxyde 25	H ₂ O ₂	0 - 25 mg/l	0-0,5-2-5-10-25	1PI319
Peroxyde 100	H ₂ O ₂	0 - 100 mg/l	0-1-3-10-30-100	1PI312
Peroxyde 1000	H ₂ O ₂	0 - 1000 mg/l	0-100-200-400-600-800-1000	1PI333
Phosphate 100	PO ₄ ³⁻	0 - 100 mg/l	0-3-10-25-50-100	1PI320
Phosphate 500	PO ₄ ³⁻	10 - 500 mg/l	10-25-50-100-250-500	1PI428
Lead	Pb ²⁺	20 - 500 mg/l	20-40-100-200-500	1PI430
Potassium	K ⁺	0 - 1500 mg/l	0-200-400-700-1000-1500	1PI316
Sulphate	SO ₄ ²⁻	200 - 1600 mg/l	<200 - >400 - >800 - >1200 ->1600	1PI329
Sulphite	SO ₃ ²⁻	0 - 1000 mg/l	0-10-25-50-100-250-500-1000	1PI306
Sulphite	SO ₃ ²⁻	10 - 400 mg/l	10-40-80-180-400	1PI432
Sulphides	S ²⁻		absence/presence	1PI511
Zinc	Zn ²⁺	10 - 250 mg/l	10-40-100-200-250	1PI310
Pool kit (50 test)	Cl ₂	0 - 10 mg/l	0-1-3-5-10	1PI752
	CaCO ₃	0 - 240 mg/l	0-80-120-180-240	
	pH	6,4 - 8,4 mg/l	6,4-6,8-7,2-7,6-8,4	



Indicator paper

Starch potassium iodide paper - Roll 5 m Cl_2 / NO_2^-	absence/presence of chlorine or nitrite	1PI754
Starch potassium iodide paper - 100 units Cl_2 / NO_2^-	absence/presence of chlorine or nitrite	1PI756
For other parameters or other ranges, please contact us.		

pH Test Rolls

A quick and simple method to estimate pH. Simply wet the paper with the sample and compare the color with the color scale on the box.



Measure range	Gradations	Roll	Refill (x3)
pH 1-11	1-2-3-4-5-6-7-8-9-10-11	1PI201	1PI202
pH 1-14	1-2-3-5-6-7-8-9-10-12-14	1PI204	1PI224
pH 0,5-5,5	0,5-1,0-1,5-2,0-2,5-3,0-3,5-4,0-4,5-5,0-5,5	1PI205	1PI225
pH 3,5-5,8	<3,8-3,8-4,1-4,3-4,5-4,7-4,9-5,2-5,5-5,8->5,8	1PI206	1PI226
pH 4,0-7,0	4,0-4,3-4,6-4,9-5,2-5,5-5,8-6,1-6,4-6,7-7,0	1PI207	1PI227
pH 5,4-7,0	<5,4-5,7-6,0-6,2-6,4-6,7-7,0>7,0	1PI208	1PI228
pH 5,5-9,0	5,5-6,0-6,5-7,0-7,5-8,0-8,5-9,0	1PI209	1PI229
pH 6,4-8,0	<6,4-6,4-6,6-6,8-7,0-7,2-7,4-7,6-7,8-8,0->8,0	1PI210	1PI230
pH 7,2-9,7	<7,2-7,5-7,8-8,1-8,4-8,7-9,0-9,3-9,7->9,7	1PI211	1PI231
pH 8,0-10,0	8,0-8,2-8,4-8,7-9,0-9,2-9,6-10,0	1PI212	1PI232
pH 9,0-13,0	9,0-9,5-10,0-10,5-11,0-11,5-12,0-12,5-13,0	1PI213	1PI233
pH 12,0-14,0	12,0-12,5-13,0-13,5-14,0	1PI214	1PI234
pH 0,5-13	TRI-BOX Box with 3 rolls of pH indicator paper (pH 0,5-5,5 ; pH 5,5-9,0 ; pH 9,0-13,0)	1PI218	-

Roll : Plastic box with color scale and a 5 meter roll of pH indicator paper.

Refill : 3 rolls of pH indicator paper (5m).

pH Test Strips

To measure pH, simply dip the strip into the sample and compare the color with the color scale on the box. These strips contain 4 areas to optimize accuracy. Colored indicators are linked to the fiber strips, there cannot be any migration of the indicator to the sample.



Measure range	Gradations	Box with 100 strips
pH Fix 0-14	0-1-2-3-4-5-6-7-8-9-10-11-12-13-14	1PI110
pH Fix 0,0-6,0	0-0,5-1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6	1PI115
pH Fix 2,0-9,0	2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7-7,5-8-8,5-9	1PI118
pH Fix 4,5-10,0	4,5-5-5,5-6-6,5-7-7,5-8-8,5-9-9,5-10	1PI120
pH Fix 6,0-10,0	6,0-6,4-6,7-7,0-7,3-7,6-7,9-8,2-8,4-8,6-8,8-9,1-9,5-10,0	1PI122
pH Fix 7,0-14,0	7-7,5-8-8,5-9-9,5-10-10,5-11-11,5-12-12,5-13-13,5-14	1PI125
pH Fix 0,3-2,3	0,3-0,7-1,0-1,3-1,6-1,9-2,3	1PI180
pH Fix 1,7-3,8	1,7-2,0-2,6-2,9-3,2-3,5-3,8	1PI190
pH Fix 3,1-8,3	3,1-3,5-3,9-4,3-4,7-5,1-5,5-5,9-6,3-6,7-7,1-7,5-7,9-8,3	1PI135
pH Fix 3,6-6,1	3,6-4,1-4,4-4,7-5,0-5,3-5,6-6,1	1PI130
pH Fix 5,1-7,2	5,1-5,4-5,7-6,0-6,3-6,6-6,9-7,2	1PI140
pH Fix 6,0-7,7	6,0-6,4-6,7-7,0-7,3-7,7	1PI150
pH Fix 7,5-9,5	7,5-7,9-8,2-8,4-8,6-8,8-9,1-9,5	1PI160
pH Fix 7,9-9,8	7,9-8,3-8,6-8,9-9,1-9,4-9,8	1PI170



Colorimetry and titrimetry methods - Test kits

The rapid test kits measure many parameters using simple methods at a low cost. Each kit comes in a box containing the accessories and ready-to-use reagents. Three methods are used: drop count titration, colorimetry, turbidimetry.

Drop count titration

- 1- One (or several) reagent(s) added to the sample
- 2- The titrant added drop by drop until the color changes
- 3- The number of drops added determines the result



Colorimetry

- 1- One (or several) reagent(s) added to the sample
- 2- A color appears
- 3- The result can be obtained by comparing this color to the scale on a colored plate. The Orchidis comparator can be used to facilitate the reading of the result.



Turbidimetry

- 1- One (or several) reagent(s) added to the sample
- 2- Some turbidity appears
- 3- The results is obtained using a measuring tube.



Titrimetry kit



Colorimetry small case



Colorimetry kit



Turbidimetry kit



Kits and small cases

Each colorimetric analysis is available in kits or small cases. The comparator comes with the small cases not with kits. The small case may contain a larger amount of reagent to perform more tests.



Colorimetry and titrimetry methods - Test kits

More than 140 kits to analyse more than 40 parameters are available. Each colorimetric test is available as a kit or a small case. The Orchidis comparator is provided with small cases but not with kits. Number of test is given for information purposes only. With titrimetric test, it depends on the concentration of water to analyse. For refills, check the reagent list at the end of the catalogue or contact us.

Parameter	Range	Method	Accuracy	Kit	Nbr test	Small case	Nbr test
Isocyanuric Acid	Ac. Cya. 0-200 mg/l	Turbi.	20-30-40-50-60-80-100-200	1KS006	50		
Alcalinity	p-alka- linity 0-60°F	Titri.	1 drop = 1°F	1KT007	100		
Alcalinity	p-alka- linity 5-240°F	Titri.	1 drop = 5°F	1KT006	100		
Alcalinity	m-alka- linity 2-60 °F	Titri.	1 drop = 1°F	1KT100	15		
Alcalinity	m-alka- linity 2-60 °F	Titri.	1 drop = 1°F	1KT000	30		
Alcalinity	m-alka- linity 5-240°F	Titri.	1 drop = 5°F	1KT008	30		
Alcalinity	p ⁻ + m- alkalinity 2-60°F	Titri.	1 drop = 1°F	1KT009	100		
Alcalinity	p ⁻ + m- alkalinity 5-240°F	Titri.	1 drop = 5°F	1KT098	100		
Aluminium	Al ³⁺ 0-0,5 mg/l	Color.	0,05-0,1-0,15-0,20-0,25-0,30-0,40-0,50	1KA009	100	1TC003	100
Ammonia	NH ₄ ⁺ 0,1-1 mg/l	Color.	0,1-0,2-0,3-0,4-0,5-0,6-0,7-0,8-1	1KA005	150	1TC004	300
Ammonia	NH ₄ ⁺ 0,05-0,5 and 0,1-1 mg/l	Color.	0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,5 and 0,1-0,2-0,3-0,4-0,5-0,6-0,7-0,8-1	1KA019	150	1TC068	300
Ammonia	NH ₄ ⁺ 0-50 mg/l	Color.	0-0,5-1-2-5-10-20-30-50	1KA018	150	1TC065	300
Starch	Starch	Titri.	Detection of the presence of starch	1KA010	150		
Bromine (for swimming pool)	Br ₂ 0,045-0,79	Color.	0,045-0,09-0,11-0,15-0,22-0,15-0,34-0,56-0,79			1TC005	120
Calcium	Ca ²⁺ 2-60°F	Titri.	1 drop = 2°F	1KC009	40		
Chlorine	Cl ₂	Titri.	Presence / Absence	1KC015	100		
Free Chlorine (DPD)	Cl ₂ 0,02-0,35 mg/l	Color.	0,02-0,04-0,07-0,1-0,15-0,2-0,25-0,35	1KC008	100	1TC023	100
Free Chlorine (DPD)	Cl ₂ 0,1-2 mg/l	Color.	0,1-0,2-0,4-0,6-0,8-1-1,3-1,6-2,0	1KC001	100	1TC006	100
Free Chlorine (ortho)	Cl ₂ 0,1-2 mg/l	Color.	0,1-0,2-0,3-0,4-0,6-0,8-1-1,4-2,0	1KC012	250	1TC008	350
Free Chlorine	Cl ₂ 10-100 mg/l	Titri.	1 drop = 5 ppm	1KC007	50		

Color. : Comparison on a color scale

Titri. : Drop count titration

Turbi. : Turbidity measurement



Colorimetry and titrimetry methods - Test kits

Parameter		Range	Method	Accuracy	Kit	Nbr test	Small case	Nbr test
Free Chlorine	Cl ₂	100-250 mg/l	Titri.	1 drop = 10 ppm	1KC031	50		
Total Chlorine (DPD)	Cl ₂	0,02-0,35 mg/l	Color.	0,02-0,04-0,07-0,1-0,15-0,2-0,25-0,35	1KC021	100	1TC069	100
Total Chlorine (DPD)	Cl ₂	2-6 mg/l	Color.	2-2,5-3-4-5-6	1KC010	100	1TC070	100
Free and Total Chlorine (DPD)	Cl ₂	0,02-0,35 mg/l	Color.	0,02-0,04-0,07-0,1-0,15-0,2-0,25-0,35	1KC030	50	1TC071	100
Free and Total Chlorine (DPD)	Cl ₂	0,1-2 mg/l	Color.	0,1-0,2-0,4-0,6-0,8-1-1,3-1,6-2,0	1KC033	50	1TC072	100
Free and Total Chlorine (DPD)	Cl ₂	0,1-6 mg/l	Color.	0,1-0,2-0,4-0,6-0,8-1-1,3-1,6-2,0 and 2-2,5-3-4-5-6			1TC007	100
Free and Total Chlorine (DPD)	Cl ₂	0,1-12 mg/l	Color.	2-2,5-3-4-5-6 and 4-5-6-8-10-12			14KC99	100
Chlorides	Cl ⁻		Titri.	Presence / Absence	1KZ001	150		
Chlorides	Cl ⁻	2-250 mg/l	Titri.	1 drop = 4 ppm	1KC020	20		
Chlorides	Cl ⁻	10-400 mg/l	Titri.	1 drop = 10 ppm	1KC005	30		
Chlorides	Cl ⁻	200-1000 mg/l	Titri.	1 drop = 20 ppm	1KC006	30		
Chlorides	Cl ⁻	2-250 mg/l	Titri.	1 drop = 4 ppm	1KC120	20		
Chlorides	Cl ⁻	10-400 mg/l	Titri.	1 drop = 10 ppm	1KC105	30		
Chlorides	Cl ⁻	200-1000 mg/l	Titri.	1 drop = 20 ppm	1KC106	30		
Chromium VI	Cr ⁶⁺	0,03-1,0 mg/l	Color.	0,03-0,06-0,1-0,2-0,3-0,5-0,75-1,0	1KC026C	180	1TC011	180
Cyanides	CN ⁻	0-0,5 mg/l	Color.	0-0,03-0,06-0,1-0,15-0,2-0,3-0,4-0,5			1TC013	150
Agressive CO ₂	CO ₂		Titri.		1KC011	100		
Copper	Cu ²⁺	0,5-5,0 mg/l	Color.	0,5-1,0-2,0-2,5-3,0-3,5-4,0-5,0	1KC027	100	1TC073	100
copper	Cu ²⁺	0,1-1,0 mg/l	Color.	0,1-0,2-0,25-0,35-0,45-0,55-0,65-0,7-1,0	1KC038	100	1TC046	100
Water color	Pt/Co	15-200 mg/l	Color.	15-30-60-100-150-200			1CC012	pas de réactifs
DEHA	DEHA	0,05-1 mg/l	Color.	0,05-0,1-0,2-0,5-1,0	1KV004	250	1TC074	250
Chlorine dioxide	ClO ₂	0,19-3,8 mg/l	Color.	0,19-0,38-0,76-1,14-1,52-1,9-2,47-3,04-3,8	1KC039	50	1TC067	100
Hardness	TH		Titri.	Presence / Absence	1KD004	80		
Hardness (3 bottles)	TH	1-60°F	Titri.	1 drop = 2°F	1KT001	40		
Hardness (3 bottles)	TH	1-60°F	Titri.	1 drop = 1°F	1KT011	20		

Color. : Comparison on a color scale

Titri. : Drop count titration

Turbi. : Turbidity measurement



Colorimetry and titrimetry methods - Test kits

Parameter		Range	Method	Accuracy	Kit	Nbr test	Small case	Nbr test
Hardness (2 bottles)	TH	1-60°F	Titri.	1 drop = 2°F	1KT004	40		
Hardness (1 bottle)	TH	1-60°F	Titri.	1 drop = 1°F	ORMCD1003	20		
Hardness (soap test)	TH	1-60°F	Titri.	1 drop = 1°F	14KT00	40		
Hardness (High sensitivity)	TH	0-2°F	Titri.	1 drop = 0,05°F	1KT005	20		
Iron	Fe ^{2+/3+}		Titri.	Presence / Absence	1KF001	23,53		
Iron	Fe ^{2+/3+}	0,06-1 mg/l	Color.	0,06-0,10-0,2-0,3-0,4-0,5-0,6-0,8-1,0	1KF005	75	1TC017	150
Iron	Fe ^{2+/3+}	0,3-5 mg/l	Color.	0,3-0,6-1-1,5-2-2,5-3-4-5	1KF006	75	1TC016	150
Iron	Fe ^{2+/3+}	0,06-1 mg/l and 0,3-5 mg/l	Color.	0,06-0,10-0,2-0,3-0,4-0,5-0,6-0,8-1,0 and 0,3-0,6-1-1,5-2-2,5-3-4-5	1KF008	75	1TC015	225
Hydrazine	N ₂ H ₄	0-1 mg/l	Color.	0-0,05-0,1-0,2-0,3-0,4-0,6-0,8-1,0	1KH000	20	1TC020	30
Hydrazine	N ₂ H ₄	0-0,15 mg/l	Color.	0-0,01-0,02-0,03-0,05-0,07-0,9-0,12-0,15-0,15	1KH001	150	1TC019	150
Hydrazine	N ₂ H ₄	0-1 mg/l and 1-0,15 mg/l	Color.	0-0,01-0,02-0,03-0,05-0,07-0,9-0,12-0,15 and 0-0,05-0,1-0,2-0,3-0,4-0,6-0,8-1,0			1TC018	150 / 20
Bleach	Cl ₂ actif	100-1000 mg/l	Titri.	5 mg/l	1CC004	50		
Bleach	Cl ₂ actif	30-150 mg/l	Titri.	0,5 mg/l	1CC015	50		
Bleach	Cl ₂ actif	47-50° chloro- métric	Titri.	1°	1CC016	50		
Magnesium	Mg ²⁺	2-60 °F	Titri.	1 drop = 2°F	1KM004	40		
Manganese	Mg ²⁺	0,05-2 mg/l	Color.	0-0,05-0,15-0,3-0,7-0,9-1,2-1,5-2,0	1KM003	100	1TC021	300
Molybdates	MoO ₄	2-300 mg/l	Color.	2-3,5-5,5-7,3-11-14,5-18,2-22-30 10-20-40-60-80-100-120-150 and 20-40-80-120-160-200-240-300	1KM002	50	1TC077	100
Nitrates	NO ₃ ⁻	0-200 mg/l	Color.	0-15-30-50-75-100-125-160-200	1KN006	50	1TC062	50
Nitrates	NO ₃ ⁻	0-50 mg/l	Color.	0-2-5-10-15-20-30-40-50	1KN018	100	1TC088	100
Nitrites	NO ₂ ⁻	0,018-0,36 mg/l	Color.	0,02-0,04-0,05-0,07-0,11-0,15-0,18-0,27-0,36	1KN007	150	1TC078	150
Nitrites	NO ₂ ⁻	0,1-2 mg/l	Color.	0,1-0,2-0,3-0,4-0,6-0,8-1,0-1,5-2,0	1KN028	150	1TC024	150
Oxygen	O ₂	0,3-6 mg/l	Color.	0,3-0,6-1-1,5-2-3-4-5-6			1TC027	120
Oxygen	O ₂	0,02-0,34 mg/l	Color.	0,02-0,05-0,07-0,09-0,14-0,18-0,22-0,27-0,34			1TC025	50

Color. : Comparison on a color scale
 Titri. : Drop count titration
 Turbi. : Turbidity measurement



Colorimetry and titrimetry methods - Test kits

Parameter		Range	Method	Accuracy	Kit	Nbr test	Small case	Nbr test
Oxygen	O ₂	0,02-6,0 mg/l	Color.	0,02-0,05-0,07-0,09-0,14-0,18-0,22-0,27-0,34 and 0,3-0,6-1-1,5-2-3-4-5-6			1TC026	120 / 50
Ozone	O ₃	0,07-1,4 mg/l	Color.	0,07-0,14-0,27-0,41-0,54-0,7-0,88-1,1-1,4			1TC029	100
Ozone	O ₃	0,014-0,24 mg/l	Color.	0,014-0,027-0,048-0,068-0,1-0,14-0,17-0,2-0,24			1TC030	100
pH	pH	3,7-5,3	Color.	3,7-3,9-4,1-4,3-4,5-4,7-4,9-5,1-5,3	1KP005	60	1TC032	180
pH	pH	5,2-6,8	Color.	5,2-5,4-5,8-6,0-6,2-6,4-6,6-6,8	1KP006	180	1TC033	360
pH	pH	6-7,6	Color.	6,0-6,2-6,4-6,6-6,8-7,0-7,2-7,4-7,6	1KP007	120	1TC034	240
pH	pH	7-8,6	Color.	7,0-7,2-7,4-7,6-7,8-8,0-8,2-8,4-8,6	1KP008	60	1TC035	180
pH	pH	8,6-10,2	Color.	8,6-8,8-9,0-9,2-9,4-9,6-9,8-10-10,2	1KP009	40	1TC036	120
pH	pH	10,2-11,8	Color.	10,2-10,4-10,6-10,8-11-11,2-11,4-11,6-11,8	1KP010	90	1TC037	280
Phosphates	P ₂ O ₅	0,5-10 mg/lP205	Color.	0,5-1,0-1,5-2-3-4-5-7-10	1KP003	80	1TC038	120
Phosphates	PO ₄ ³⁻	0,7-13,4 and 6-80 mg/l	Color.	0,7-1,35-2-2,70-4-5,4-6,7-9,4-13,4 and 6-10-14-20-26-34-40-60-80	1KP004	80	1TC082	120
Phosphates	P ₂ O ₅ (or P)	0 - 10 mg/l P205 (ou 0,23 - 4,4 mg/l P)	Color.	0,5 - 1,0 - 1,5 - 2 - 3 - 4 - 5 - 7 - 10 (0,23 - 0,44 - 0,66 - 0,89 - 1,32 - 1,78 - 2,2 - 3,1 - 4,4)	1KP018	80	1TC079	120
Polyacrylates		18-100 NTU	Turbi.	18-20-22,5-25-27,5-30-35-40-45-60-70-80-100	1TP004	30		
Silica	SiO ₂	0,2-2,0 mg/l	Color.	0,2-0,3-0,4-0,5-0,7-0,9-1,2-1,5-2,0	1KS008	80	1KS008	120
Silica	SiO ₂	3-50 mg/l	Color.	3-6-10-15-20-25-30-40-50	1KS010	100	1TC044	150
Silica	SiO ₂	0,2-2,0 mg/l and 3-50 mg/l	Color.	0,2-0,3-0,4-0,5-0,7-0,9-1,2-1,5-2,0 and 3-6-10-15-20-25-30-40-50			1TC043	150
Silica	SiO ₂	0,2-2,0 mg/l	Color.	0,2-0,3-0,4-0,5-0,7-0,9-1,2-1,5-2,0	1KS011	150		
Sulphates	SO ₄ ²⁻	40-160 mg/l	Turbi.	40-60-80-100-120-160-200	1KS000	50		
Sulphites	SO ₃ ²⁻	5-250 mg/l	Titri.	1 drop = 5 mg/l	1KS003	25		
Sulphites	SO ₃ ²⁻	0-50mg/l	Titri.	1 drop = 1 mg/l	1KS009	30		
Tannates			Color.	excess / lack	1KT010	no reagent	1TC063	no reagent
Zinc	Zn ²⁺	0-2,0 mg/l	Color.	0-0,2-0,4-0,6-0,8-1,0-1,3-1,6-2,0	1KZ006	100	1TC045	100

Color. : Comparison on a color scale

Titri. : Drop count titration

Turbi. : Turbidity measurement



Burette method

Different titration systems are available for the analyses carried out by direct titration. There are four burette models corresponding to different needs and constraints. Burettes are graduated in ml or French degree °F according to the analyses.

Each analysis is provided with the necessary equipment, reagents and related methods.

See analyses list on page 16.

Contact us for a quote.

Titration burette

This burette can be adapted to a macro pipette and is filled by suction. It fits easily in a small case.

Titration burette in °F	1BS025
Titration burette in ml	1BG014
Macropipet	1T0007



Mohr's burette

This burette can be mounted on a stand and is filled directly from the top. The stand and burette can be disassembled and stored easily in a small case.

Mohr's burette in °F	14BD05
Mohr's burette in ml	1BD001
Field stand	1SC004
Laboratory stand	1SC003



Automatic zero burette

This burette is mounted on a 1000 ml reagent bottle and is filled by pressing the bottle. Zero is adjusted automatically. The set can be stored in a portable lab case.

Automatic zero burette in °F	1BZ001
Automatic zero burette in ml	1BZ000



Digital burette

This burette can be fitted on a bottle and gives fast, reliable and highly accurate analyses. Mounted on a 250 ml bottle, it can be integrated into a portable lab case.

Digital burette un ml (25 ml)	1BD016
Digital burette un ml (50 ml)	1BD050
Glass bottle 2500 ml	1FV005
Glass bottle 1000 ml	1FV004
Glass bottle 250 ml	1FV003



Accessories

Graduated bottle 125 ml	1FG000
Erlenmeyer flask 250 ml	1FE004
Graduated plastic tube 20 ml	14TP00
Graduated pipet 5 ml	1PG002
Graduated pipet 10 ml	1PG003

Syringe 20 ml for filtration	OR956195
Filter holder 25 mm	14PF09
Filter paper 25 mm (x100)	14PF05
Magnetic stirrer	1AM014
Magnetic bar 20 x 6 mm	1BM003



Burette method

The ranges indicated below are given for concentrations of titrants noted in the table. The ranges can be easily adapted to individual needs by changing the volume of the sample and the concentration of the titrant. Reagents are available in many sizes from 60 ml to 1000 ml and titrants are available in different concentrations.

Contact us for a quote.



Parameter		Range in °F	Range in mg/l	Reagents	
Chlorides	Cl ⁻	0-30	0-210	Silver Nitrate N/25 Potassium Chromate	Oxalic Acid 10% Phenolphthalein TA
Chlorides	Cl ⁻	0-30	0-210	Mercuric Nitrate N/25 Mixt Indicator for Chlorides	Nitric Acid N/5 Hydrogen Peroxyde
Chlorides	Cl ⁻	0-30	0-210	Chloride Titration Liquor	Chloride Indicator
Aggressive CO ₂	CO ₂	0-30	0-130	Liqueur Alca N/25 Marbre	Helianthine
Free CO ₂	CO ₂	0-30	0-130	Alca Liquor N/25 Phenolphthalein TA	Acid Liquor Seignette
Organic Matter			0-15	Sulfuric Acid 1/2 Mohr's Salt 5g/l	Potassium Permanganate N/80
Organic Matter			0-30	Acide Sulfurique 1/2 Mohr's Salt 25g/l	Potassium Permanganate N/80
Strong Acid Salt	SAF	0-30		Acid Liquor N/25 Cationic Resin	Helianthine
Sulfites	SO ₃ ²⁻		0-15	Sulfite Reagent 1	Sulfite Reagent 2
p Alkalinity	TA	0-30		Alca Liquor N/25	Phenolphthalein TA
p Alkalinity	TA	0-30		Alca Liquor N/25	TA Indicator (CMR free)
m Alkalinity	TAC	0-30		Alca Liquor N/25	Helianthin
m Alkalinity	TAC	0-30		Alca Liquor N/25	TAC reagent Virage Franc
Strong Acid Tittle	TAF	0-30		Acid Liquor N/25	Helianthin
Calcium Hardness	Ca ²⁺	0-30		Complexo Liquor N/25 A/G Reagent	ECAL Indicator
Magnesium Hardness	Mg ²⁺	0-30		Complexo Liquor N/25 Buffer K10	NET Indicator Ammonium Oxalate solution
Total Hardness	Mg ²⁺ /Ca ²⁺	0-30		Complexo Liquor N/25 Buffer K10	NET Indicator
Total Hardness	Mg ²⁺ /Ca ²⁺	0-30		Hydro Special Liquor Phenolphthalein TA	Neutraliser
Total Hardness	Mg ²⁺ /Ca ²⁺	0-30		Hydro Special Liquor TA Indicator (CMR free)	Neutraliser
Sodium Hydroxyde	OH ⁻	0-240		Alca Liquor N/25 Phenolphthalein TA	Baryum Chloride Solution



Digital titrator method

Thanks to this simple and compact system, the analysis can be performed with both using a minimum of reagent and keeping high precision. The titrants are packaged in 12 ml cartridges and a titrator “pistol” is used to add it. Kits include indicator reagents and cartridges with titrants for 100 tests.



Digital Titrator and Accessories

Digital titrator	14TD17	Graduated pipe 20 ml	14TP00
Capillary (for 5)	14CP03	Graduated syringe 2 ml	1PS000
Graduated flask 125 ml	1FG000	Carrying case	1MD012

Parameter	Method	Range mg/l	Range °F	Reagents kits
High acidity	TAC reagent/Sodium Hydroxyde 0,16 N	10 - 160	1 - 16	1KR005
High acidity	TAC reagent/Sodium Hydroxyde 1,6 N	100 - 4000	10 - 400	1KR006
Total acidity*	Phenolphthalein TA/Sodium Hydroxyde 0,16 N	10 - 160	1 - 16	1KR007
Total acidity*	Phenolphthalein TA/Sodium Hydroxyde 1,6 N	100 - 4000	10 - 400	1KR008
Total acidity	TA indicator/Sodium Hydroxyde 0,16 N	10 - 160	1 - 16	1KR027
Total acidity	TA indicator/Sodium Hydroxyde 1,6 N	100 - 4000	10 - 400	1KR028
p alkalinity*	Phenolphthalein TA/Sulphuric acid 1,6 N	100-4000	10 - 400	1KR010
p alkalinity*	Phenolphthalein TA/Sulphuric acid 0,16 N	10 - 160	1 - 16	1KR009
p alkalinity	TA indicator/Sulphuric acid 1,6 N	100-4000	10 - 400	1KR029
p alkalinity	TA indicator/Sulphuric acid 0,16 N	10 - 160	1 - 160	1KR030
Total acidity	TAC reagent/Sulphuric acid 1,6 N	100-4000	10 - 400	1KR012
Total acidity	TAC reagent/Sulphuric acid 0,16 N	10 - 160	1 - 16	1KR031
Chlorides low range	CBP indicator/Mercuric nitrate 0,2256 N	10 - 160	1 - 16	1KR013
Chlorides	CBP indicator/Mercuric nitrate 2,256 N	100 - 8000	10 - 800	1KR014
Calcium hardness low range	ECAL indicator/EDTA 0,08 M	10 - 160	1 - 16	1KR016
Calcium hardness high range	ECAL indicator/EDTA 0,8 M	100 - 4000	10 - 400	1KR031
Total hardness low range	TH reagent/EDTA 0,08 M	10 - 160	1 - 16	1KR017
Total hardness high range	TH reagent/EDTA 0,8 M	100 - 4000	10 - 400	1KR032
Total hardness low range	NET indicator/EDTA 0,08 M	10 - 160	1 - 16	1KR018
Total hardness high range	NET indicator/EDTA 0,8 M	100 - 4000	10 - 400	1KR033
Sulfites	Sulphites A reagent/Potassium Iodide Iodate 0,4 N	0 - 400		1KR019
Chloride**	Potassium chromate/Silver nitrate 0,2256 N	10-100		1KR020
Chloride**	Potassium chromate/Silver nitrate 1,128 N	100-10000		1KR021
Chloride	Chloride indicator (CMR free)/Silver nitrate 0,2256 N	10-100		1KR022
Chloride	Chloride indicator (CMR free)/Silver nitrate 1,128 N	100-10000		1KR023
Chlorine	Potassium iodide/Sodium Thiosulfate 0,02256 N	1 - 400		1KR024
Chlorine	Potassium iodide/Sodium Thiosulfate 0,113 N	20 - 2000		1KR025
Chlorine	Potassium iodide/Sodium Thiosulfate 2,00 N	2000 - 70000		1KR026

* Phenolphthalein, classified as a CMR substance, can be substituted by TA indicator

** Potassium chromate, classified as a CMR substance, can be substituted by Chloride indicator

Cartridges of Reagents 12 ml

ORHTC000	Cartridge Sodium Hydroxyde 0,16 N	ORHTC001	Cartridge Sodium Hydroxyde 1,600 N
ORHTC003	Cartridge Sulfuric Acid 0,16 N	ORHTC004	Cartridge Sulfuric Acid 1,6 N
ORHTC008	Cartridge EDTA 0,08 M	ORHTC009	Cartridge EDTA0,800 M
ORHTC012	Cartridge Silver Nitrate 0,2256 N	ORHTC013	Cartridge Silver Nitrate 1,128 N
ORHTC014	Cartridge Mercuric Nitrate 0,2256 N	ORHTC015	Cartridge Mercuric Nitrate 2,256 N
ORHTC016	Cartridge Sodium Thiosulphate 2 N	ORHTC017	Cartridge Sodium Thiosulfate 0,113 N
ORHTC023	Cartridge Iodide Iodate Potassium 0,4 N		

For indicator reagents, please refer to the end of the catalog



Photometry – Spectrophotometry

Photometry and spectrophotometry allow to perform analyzes by generating a color using reagents and by measuring the intensity of the color using a device. ORCHIDIS offers many methods and reagents to use with different devices such as the new innovative Photopod.

Photometry

PHOTOPOD

This brand new photometer is a concentrate of technology that works by connecting it to the CALYPSO multiparameter. Lightweight, compact and robust, it is designed for field use.

PHOTOPOD is available in 3 versions.

PHOTOPOD SP uses only tablet reagents (and test tube for COD, total nitrogen and total phosphorus).

PHOTOPOD LS uses liquid reagents and tablet reagents (and test tube for COD, total nitrogen and total phosphorus).

PHOTOPOD monoparameter is only for one parameter (to choose among the list). *> See details page 30*



CALYPSO

This multiparameter device is the only one able to perform photometry analyzes using the PHOTOPOD, and physico chemical measurements using probes (pH, ORP, conductivity, turbidity, oxygen...).

> See details page 28



Spectrophotometry

Spectrophotometer

For even more accurate results, ORCHIDIS methods can be used with SECOMAM's UviLine spectrophotometers (except 8100).

> See details page 36

ORCHIDIS methods and reagents can also be used with any other type of spectrophotometer. Contact us for more information.



You already have a spectrophotometer?

You can also use ORCHIDIS methods and reagents for all your spectrophotometric analyses. Contact us for more information.





Photometry – Spectrophotometry

Reagents for photometry and spectrophotometry come from fifty years of experience of ORCHIDIS. They are available as starting kits for PHOTOPOD, and reagents refills for PHOTOPOD and spectrophotometers. Starting kits contain reagents, equipment and instructions. Refills contains only reagents. All methods are achievable by anyone, experienced or not.

Parameter	Range (mg/L)	Reagents	Time (min)	Photopod			Starting kit for Photopod		Reagents refill for Photopod		Reagents for Uviline	
				LS	SP	Uviline	Nbr test	Nbr test	Nbr test	Nbr test		
Cyanuric Acid	Cyan.Ac. 10 - 200	liq.	5	●		●	1MT130	100	1MT301	200	1MS301	200
Cyanuric Acid	Cyan.Ac. 10 - 200	pil.	5		●	●	1MT048	100	1MT302	250	1MS302	250
Alkalinity (p-)	p- 2,0 - 50,0 °F	pil.	5		●	●	1MT134	100	1MT045	250	1MS045	250
Alkalinity (m-)	m- 2,0 - 50,0 °F	pil.	4		●	●	1MT135	100	1MT046	250	1MS046	250
Aluminium	Al ³⁺ 0,05 - 3,00	liq.	5	●			1MT136	150	1MT303	300	-	-
Aluminium	Al ³⁺ 0,05 - 1,00	liq.	5			●	-	-	-	-	1MS303	300
Aluminium	Al ³⁺ 0,20 - 3,00	pil.	9		●	●	1MT001	100	1MT304	250	1MS304	250
Aluminium	Al ³⁺ 0,02 - 0,30	pil.	8		●	●	1MT001	100	1MT304	250	1MS304	250
Ammonium	NH ₄ ⁺ 1,0 - 30,0	liq.	6	●		●	1MT002	150	1MT305	300	1MS305	300
Ammonium	NH ₄ ⁺ -N 0,80 - 24,0	liq.	6	●		●	1MT002	150	1MT305	300	1MS305	300
Ammonium	NH ₄ 0,30 - 6,00	liq.	6	●		●	1MT002	125	1MT305	250	1MS305	250
Ammonium	NH ₄ ⁺ -N 0,20 - 4,80	liq.	6	●		●	1MT002	125	1MT305	250	1MS305	250
Ammonium	NH ₄ ⁺ 0,10 - 2,00	pil.	6	●	●	●	1MT193	100	1MT306	250	1MS306	250
Ammonium	NH ₄ ⁺ -N 0,08 - 1,60	pil.	6	●	●	●	1MT193	100	1MT306	250	1MS306	250
Ammonium #	NH ₄ ⁺ 0,10 - 2,00	pil.	6	●	●	●	1MT003	100	-	-	1MS003	100
Ammonium #	NH ₄ ⁺ -N 0,08 - 1,60	pil.	6	●	●	●	1MT003	100	-	-	1MS003	100
Nitrogen	Ntotal 5,0 - 100	tub.	85	●	●	●	1MT052	50	-	-	1MS052	50
Nitrogen	Ntotal 1,0 - 25,0	tub.	85	●	●	●	1MT051	50	-	-	1MS052	50
Benzotriazole	BZT 1,00 - 16,0	liq.	5,5	●			1MT078	100	1MT307	200	-	-
Boron	B ³⁺ 0,50 - 10,00	pil.	11,5	●	●	●	1MT137	100	1MT308	250	1MS308	250
Bromine	Br ₂ 0,90 - 13,5	liq.	5	●		●	1MT188	100	1MT355	200	1MS355	200
Bromine	Br ₂ 1,00 - 13,5	pil.	5		●	●	1MT138	100	1MT004	250	1MS004	250
Bromine	Br ₂ 0,10 - 2,25	pil.	5		●	●	1MT138	100	1MT004	250	1MS004	250
Calcium	Ca ²⁺ 20 - 200	pil.	4		●	●	1MT139	100	1MT309	250	1MS309	250
Calcium	Ca ²⁺ 2,0 - 20,0	pil.	3		●	●	1MT139	100	1MT309	250	1MS309	250
Free Chlorine	Cl ₂ 0,40 - 6,00	liq.	2	●		●	1MT174	100	1MT347	200	1MS347	200
Free Chlorine	Cl ₂ 0,50 - 6,00	pil.	3	●	●	●	1MT140	100	1MT116	250	1MS116	250
Free Chlorine	Cl ₂ 0,05 - 1,00	pil.	3	●	●	●	1MT140	100	1MT116	250	1MS116	250
Total Chlorine	Cl ₂ 0,40 - 6,00	liq.	2	●		●	1MT191	100	1MT357	200	1MS357	200
Total Chlorine	Cl ₂ 0,50 - 6,00	pil.	3	●	●	●	1MT192	100	1MT007	250	1MS007	250
Total Chlorine	Cl ₂ 0,05 - 1,00	pil.	3	●	●	●	1MT192	100	1MT007	250	1MS007	250
Chlorides	Cl ⁻ 10 - 500	liq.	4	●		●	1MT044	125	1MT310	250	1MS310	250
Chlorides	Cl ⁻ 1,0 - 50,0	liq.	4	●		●	1MT044	125	1MT310	250	1MS310	250
Chlorides	Cl ⁻ 5 - 200	pil.	5		●	●	1MT141	100	1MT311	250	1MS311	250
Chlorides	Cl ⁻ 0,50 - 20,0	pil.	4		●	●	1MT141	100	1MT311	250	1MS311	250
Chromium 6	Cr ⁶⁺ 0,10 - 4,00	liq.	1,5	●			1MT180	200	1MT009	200	-	-
Chromium 6	Cr ⁶⁺ 0,05 - 4,00	liq.	1,5			●	-	-	-	-	1MS009	200
Chromium 6	Cr ⁶⁺ 0,05 - 2,00	pil.	6		●	●	1MT142	100	1MT312	250	1MS312	250
Copper	Cu ²⁺ 0,05 - 5,00	liq.	3,5	●		●	1MT181	200	1MT313	200	1MS313	200
Copper	Cu ²⁺ 0,20 - 5,00	pil.	6		●	●	1MT011	100	1MT314	250	1MS314	250
Cyanides	CN ⁻ 0,02 - 0,50	liq.	16,5	●		●	1MT012	150	1MT315	300	1MS315	300
COD	DCO 1,0 - 15,0 g/L	tub.	150	●	●	●	1MT055	25	-	-	1MS055	25
COD	DCO 0,10 - 1,50 g/L	tub.	150	●	●	●	1MT054	25	-	-	1MS054	25

Reagents pil.: solid tablet reagents liq.: liquid reagent tub.: tube test

* for sea water



Photometry – Spectrophotometry

Parameter	Range (mg/L)	Reagents	Time (min)	Photopod	Photopod	Uviline	Starting kit for Photopod	Nbr test	Reagents refill for Photopod	Nbr test	Reagents for Uviline	Nbr test
				LS	SP							
COD	DCO 10 - 150 mg/L	tub.	150	●	●	●	1MT060	25	-	-	1MS060	25
DEHA	DEHA 0,02 - 1,00	liq.	11,5	●			1MT182	200	1MT112	200	-	-
DEHA	DEHA 0,05 - 1,00	liq.	11,5			●	-	-	-	-	1MS112	200
DEHA	DEHA 0,02 - 2,00	pil.	6		●	●	1MT189	250	1MT316	250	1MS316	250
Chlorine Dioxide	ClO ₂ 2,0 - 28,5	liq.	1	●		●	1MT175	100	1MT348	200	1MS348	200
Chlorine Dioxide	ClO ₂ 2,4 - 28,5	pil.	7	●	●	●	1MT177	100	1MT069	250	1MS069	250
Chlorine Dioxide	ClO ₂ 0,20 - 4,75	pil.	4	●	●	●	1MT177	100	1MT069	250	1MS069	250
Hardness	TH 5,0 - 50,0 °F	pil.	5		●	●	1MT143	100	1MT047	250	1MS047	250
Hardness	TH 2,0 - 20,0 °F	pil.	4		●	●	1MT143	100	1MT047	250	1MS047	250
Iron	Fe 0,05 - 5,00	liq.	3	●		●	1MT144	150	1MT317	300	1MS317	300
Iron	Fe 0,2 - 20,0	pil.	4		●	●	1MT145	100	1MT318	250	1MS318	250
Iron	Fe 0,05 - 5,00	pil.	7		●	●	1MT146	100	1MT319	250	1MS319	250
Fluorides	F ⁻ 0,10 - 2,00	tub.	5,5	●		●	1MT110	20	-	-	-	-
Fluorides	F ⁻ 0,20 - 2,00	pil.	7		●	●	1MT147	100	1MT320	200	1MS320	200
H2O2	H ₂ O ₂ 2 - 200	pil.	1,5	●	●	●	1MT148	100	1MT321	250	1MS321	250
H2O2	H ₂ O ₂ 0,05 - 2,00	pil.	2,5	●	●		1MT149	100	1MT322	250	-	-
H2O2	H ₂ O ₂ 0,05 - 5,00	pil.	2,5			●	-	-	-	-	1MS322	250
Hydrazin	N ₂ H ₄ 0,10 - 1,00	liq.	3	●			1MT019	25	1MT323	100	-	-
Hydrazin	N ₂ H ₄ 0,10 - 2,00	liq.	3			●	-	-	-	-	1MS323	100
Hydrazin	N ₂ H ₄ 0,02 - 1,00	pil.	3,5		●	●	1MT160	150	1MT324	300	1MS324	300
Magnesium	Mg ²⁺ 5,0 - 50,0	pil.	4	●	●	●	1MT161	100	1MT325	250	1MS325	250
Magnesium	Mg ²⁺ 0,50 - 5,00	pil.	4	●	●	●	1MT161	100	1MT325	250	1MS325	250
Manganese	Mn ²⁺ 0,20 - 5,00	liq.	6	●		●	1MT050	125	1MT326	250	1MS326	250
Manganese	Mn ²⁺ 0,10 - 8,00	pil.	6		●	●	1MT162	100	1MT327	250	1MS327	250
Molybdate	MoO ₄ 33 - 330	liq.	1,5	●		●	1MT183	200	1MT329	200	1MS329	200
Molybdate	MoO ₄ -Mo 20 - 200	liq.	1,5	●		●	1MT183	200	1MT329	200	1MS329	200
Molybdate	MoO ₄ 0,8 - 30,0	liq.	1,5	●			1MT183	200	1MT329	200	-	-
Molybdate	MoO ₄ -Mo 0,5 - 20,0	liq.	1,5	●			1MT183	200	1MT329	200	-	-
Molybdate	MoO ₄ 0,8 - 30,0	liq.	1,5			●	-	-	-	-	1MS329	200
Molybdate	MoO ₄ -Mo 0,5 - 165,0	liq.	1,5			●	-	-	-	-	1MS329	200
Molybdate	MoO ₄ 5,0 - 100	pil.	2		●	●	1MT024	100	1MT330	250	1MS330	250
Molybdate	MoO ₄ -Mo 3,0 - 60,0	pil.	2		●	●	1MT024	100	1MT330	250	1MS330	250
Nickel	Ni ²⁺ 0,10 - 5,00	liq.	4	●		●	1MT164	100	1MT331	200	1MS331	200
Nickel	Ni ²⁺ 0,50 - 10,0	pil.	3		●	●	1MT079	100	1MT332	200	1MS332	200
Nitrates	NO ₃ ⁻ 2,5 - 100	liq.	10	●		●	1MT184	25	1MT350	50	1MS350	50
Nitrates	NO ₃ ⁻ -N 0,6 - 23,0	liq.	10	●		●	1MT184	25	1MT350	50	1MS350	50
Nitrates	NO ₃ ⁻ 0,25 - 10,0	liq.	10	●		●	1MT184	25	1MT350	50	1MS350	50
Nitrates	NO ₃ ⁻ -N 0,06 - 2,30	liq.	10	●		●	1MT184	25	1MT350	50	1MS350	50
Nitrates	NO ₃ ⁻ 20 - 200	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrates	NO ₃ ⁻ -N 4,5 - 45,0	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrates	NO ₃ ⁻ 4,0 - 100	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrates	NO ₃ ⁻ -N 2,5 - 200	pil.	17			●	-	-	-	-	1MS333	200
Nitrates	NO ₃ ⁻ 1,0 - 22,5	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrates	NO ₃ ⁻ -N 0,6 - 45	pil.	17			●	-	-	-	-	1MS333	200
Nitrates	NO ₂ ⁻ 0,50 - 5,00	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrates	NO ₂ ⁻ -N 0,10 - 1,00	pil.	17		●	●	1MT101	100	1MT333	200	1MS333	200
Nitrites	NO ₂ ⁻ 0,05 - 2,00	liq.	6	●		●	1MT027	150	1MT334	300	1MS334	300

Reagents pil.: solid tablet reagents liq.: liquid reagent tub.: tube test



Photometry – Spectrophotometry

Parameter	Range (mg/L)	Reagents	Time (min)	Photopod	Photopod	Uviline	Starting kit for Photopod	Nbr test	Reagents refill for Photopod	Nbr test	Reagents for Uviline	Nbr test	
				LS	SP								
Nitrites	NO ₂ ⁻ -N	0,01 - 0,60	liq.	6	●		●	1MT027	150	1MT334	300	1MS334	300
Nitrites	NO ₂ ⁻	0,05 - 2,00	pil.	11		●	●	1MT165	100	1MT335	250	1MS335	250
Nitrites	NO ₂ ⁻ -N	0,01 - 0,60	pil.	11		●	●	1MT165	100	1MT335	250	1MS335	250
Nitrites	NO ₂ ⁻	1,3 - 130	pil.	3		●		1MT166	100	1MT336	250	-	-
Nitrites	NO ₂ ⁻ -N	0,4 - 41,0	pil.	3		●		1MT166	100	1MT336	250	-	-
Nitrites	NO ₂ ⁻	0,7 - 33,0	pil.	3			●	-	-	-	-	1MS336	250
Nitrites	NO ₂ ⁻ -N	0,2 - 10,0	pil.	3			●	-	-	-	-	1MS336	250
Nitrites	NO ₂ ⁻	13 - 1330	pil.	3		●		1MT166	100	1MT336	250	-	-
Nitrites	NO ₂ ⁻ -N	4 - 410	pil.	3		●		1MT166	100	1MT336	250	-	-
Nitrites	O ₃	6,7 - 330	pil.	3			●	-	-	-	-	1MS336	250
Nitrites	O ₃	2 - 100	pil.	3			●	-	-	-	-	1MS336	250
Ozone	O ₃	0,30 - 4,00	liq.	4	●		●	1MT176	100	1MT349	200	1MS349	200
Ozone	pH	0,30 - 4,00	pil.	12		●	●	1MT029	100	1MT337	250	1MS337	250
Ozone	Phenol	0,03 - 0,65	pil.	12		●	●	1MT029	100	1MT337	250	1MS337	250
pH	PO ₄ ³⁻	6,8 - 8,6	liq.	0,5	●			1MT036	125	1MT338	250	-	-
Phenol	PO ₄ ³⁻ -P	0,05 - 10,0	pil.	6,5	●	●	●	1MT167	100	1MT339	200	1MS339	200
Phosphates	PO ₄ ³⁻	3,0 - 125	liq.	6	●			1MT031	125	1MT351	250	-	-
Phosphates	PO ₄ ³⁻ -P	1,0 - 40,0	liq.	6	●			1MT031	125	1MT351	250	-	-
Phosphates	PO ₄ ³⁻	3,0 - 60	liq.	6			●	-	-	-	-	1MS351	250
Phosphates	P ₂ O ₅	1,0 - 20,0	liq.	6			●	-	-	-	-	1MS351	250
Phosphates	PO ₄ ³⁻ -P	1,0 - 40,0	liq.	11	●		●	1MT030	125	1MT352	250	1MS352	250
Phosphates	PO ₄ ³⁻	1,0 - 36,0	liq.	11	●		●	1MT030	125	1MT352	250	1MS352	250
Phosphates	PO ₄ ³⁻ -P	0,50 - 13,0	liq.	11	●		●	1MT030	125	1MT352	250	1MS352	250
Phosphates	PO ₄ ³⁻	0,20 - 5,00	liq.	11	●			1MT030	125	1MT352	250	-	-
Phosphates	PO ₄ ³⁻ -P	0,06 - 1,60	liq.	11	●			1MT030	125	1MT352	250	-	-
Phosphates	PO ₄ ³⁻	0,20 - 6,00	liq.	11			●	-	-	-	-	1MS352	250
Phosphates	PO ₄ ³⁻ -P	0,06 - 2,00	liq.	11			●	-	-	-	-	1MS352	250
Phosphates	PO ₄ ³⁻	2,0 - 100	pil.	2,5		●		1MT185	100	1MT353	250	-	-
Phosphates	PO ₄ ³⁻ -P	0,6 - 32,6	pil.	2,5		●		1MT185	100	1MT353	250	-	-
Phosphates	PO ₄ ³⁻	0,20 - 4,00	pil.	5		●	●	1MT186	100	1MT354	200	1MS354	200
Phosphates	PO ₄ ³⁻ -P	0,06 - 1,30	pil.	5		●	●	1MT186	100	1MT354	200	1MS354	200
Total Phosphorus	Ptotal	1,00 - 15,0	tub.	60	●	●	●	1MT075	50	-	-	1MS075	50
Total Phosphorus	Ptotal	0,10 - 1,50	tub.	60	●	●	●	1MT076	50	-	-	1MS076	50
Potassium	K ⁺	2,00 - 15,0	pil.	4	●	●	●	1MT168	100	1MT340	250	1MS340	250
Silica	SiO ₂	10 - 300	liq.	8	●		●	1MT040	150	1MT341	300	1MS341	300
Silica	SiO ₂	0,20 - 10,0	liq.	8	●		●	1MT040	150	1MT341	300	1MS341	300
Silica	SiO ₂	5 - 150	pil.	12		●	●	1MT173	100	1MT342	200	1MS342	200
Silica	SiO ₂	0,05 - 10,0	pil.	12		●	●	1MT170	100	1MT343	200	1MS343	200
Sulfates	SO ₄ ²⁻	10 - 400	liq.	11	●			1MT080	100	1MT344	200	-	-
Sulfates	SO ₄ ²⁻	5 - 300	liq.	11			●	-	-	-	-	1MS344	200
Sulfates	SO ₄ ²⁻	10 - 200	pil.	6		●	●	1MT171	100	1MT041	250	1MS041	250
Sulfides	S ²⁻	0,05 - 0,60	pil.	6	●	●	●	1MT172	100	1MT345	200	1MS345	200
Turbidity	Turbi	10-4000 NTU	-	0				no reagent		no reagent		-	-
Turbidity	Turbi	10-100 NTU	-	0				no reagent		no reagent		-	-
Zinc	Zn ²⁺	0,05 - 4,00	liq.	2	●			1MT190	200	1MT356	200	-	-
Zinc	Zn ²⁺	0,05 - 5,00	liq.	2			●	-	-	-	-	1MS356	200
Zinc	Zn ²⁺	0,10 - 4,00	pil.	6		●	●	1MT043	100	1MT346	250	1MS346	250

Reagents pil.: solid tablet reagents liq.: liquid reagent tub.: tube test

Photo. – spectro.



Cases and test kits for various applications

Standard or customized cases

Many standard kits and small cases are available for different applications: boiler, waste waters, swimming pools...

Each case contains all the equipment, reagents and instructions to perform the analyses thus constituting a true portable laboratory.

If one of the standard cases does not meet all your needs, customized cases are available.

The portable cases are robust and perfectly adapted to field work. Several models are available:

ABS Blue Case



ABS Grey Case



Aluminium case



Colorimetric methods with indicator paper or comparator, drop count titration or burette titration, we can include in our cases all of the numerous tests presented in this catalog.

See the list on page 4.

We also equip field cases with various handheld testers for pH, conductivity, TDS, T° ...

Contact us for a quote.





Water treatment – Demonstration cases

Demonstration cases

To highlight the problem of hard water, and demonstrate the effectiveness of water softening using a mini water softener.

Classical model case

Mini water softener for demonstration

Foam test

Precipitation test

Hardness test

Classical model case

ref 1MD015



Luxurious model case

Mini water softener for demonstration

Foam test

Precipitation test

Hardness test

Nitrates test

Chlorine test

pH test

Luxurious model ABS case

ref 1MD002

Luxurious model Aluminium case

ref 1MD014



Multiparameter kit “test your water”

Hardness test

Nitrates test

Chlorine test

pH test

Multiparameter kit “test your water”

ref 1TT013



Monoparameter test kits

Hardness 3 reagents 1 - 60°F 1KT001

Hardness 2 reagents 1 - 60°F 1KT004

Hardness 1 reagent 1 - 60°F ORMCD1003

Nitrates 0 - 50 mg/l 1KN018

Chlorine/pH 1KS004



Accessories and consumables: see end of catalog.



Laundries - Catering Kits and multiparameter models

Laundry kit

Hardness test
Detergent test



Laundry kit

1KD002

Laundry case

Hardness test
Detergent test
m alkalinity test
Bleach test
Residual chlorine test
Detergent concentration
Iron test
pH test



Laundry case

1MB007

Catering kit

Hardness test
Detergent test
Starch test
Temperature °C



Catering kit

14KH00

Multi test kit for laundry/catering

Hardness test
Detergent test
m alkalinity test
Residual chlorine test
Iron test
pH test



Multi test kit for laundry/catering

1TB011

Dish washing control kit

Detergent test
Residual alkalinity test
Protein test
Starch test
Scale deposit test



Dish washing control kit

14KC05

Monoparameter kits

	Range	Ref
Starch	presence/absence	1KA010
p alkalinity	0 - 60°F	1KT007
p alkalinity	5 - 240°F	1KT006
m alkalinity	5 - 240°F	1KT008
m alkalinity	2 - 60 °F	1KT000
Chlorine	presence/absence	1KC015
Chlorine	10 - 100 mg/l	1KC007
Hardness 3 reagents	1 - 60°F	1KT001
Hardness 2 reagents	1 - 60°F	1KT004
Hardness 1 reagent	1 - 60°F	ORMCD1003
Iron	presence/absence	1KF001
Iron	0,06 - 1 mg/l	1KF005
Bleach	47 - 50°	1CC016
Detergent		1KT003
pH	0 - 14	1PI030
Digital Thermometer		1TE001

Accessories and consumables: see end of catalog.





Boiler Room

Control of RD25 complex and molybdates	1TC052
Control of polyacrylates based products	1TP004



Legionella risk control case

Case for the control of the parameters related to the risk of Legionella
Hardness, p- and m-alkalinity, chlorides, iron
pH, conductivity, temperature

Legionella risk control case	1ML010
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Boiler room case

Case for the important parameters to check in boiler room
Hardness, p- and m-alkalinity, chlorides, sulfites.

With drop count methods	1MD003HC
With burette methods	1MD005HC
With digital titrator methods	14ML06

Waste water

Waste water treatment plant case

Decantation test
Control of limpidity
Recirculation test
Ammonia test
Nitrates test
Permanganate oxydability test
Sludge blanket detection
Phosphates test (optional)

Waste water treatment plant case	14ML01
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Monoparameter kits

Nitrates	0 - 50 mg/l	1KN018
Nitrates	0 - 200 mg/l	1KN006
Ammonia	0 - 50 mg/l	1KA018
Phosphates	0 - 80 mg/l	1KP004



Indicator paper

Nitrates and nitrites	0-50 mg/l NO ₃ and 0-10 mg/l NO ₂	1PI027
Ammonia	0 - 400 mg/l	1PI009
Phosphates	0 - 100 mg/l	1PI064



Accessories and consumables: see end of catalog.



Public and private pools

Accessories

Sampling beaker 1L

To use with a telescopic rod

Sampling beaker 1L	1BP024
--------------------	--------

Sampling bottle holder

To use with a telescopic rod

Sampling bottle holder	1PF023
------------------------	--------



Telescopic rod for sampling bottle and sampling beaker

Dimensions	Ref.
0,6 - 1,2 m	1CT008
1,25 - 2,5 m	1CT009
1,0 - 3,0 m	1CT010
1,5 - 4,5 m	1CT011



Others

Health book		1CS000
Field turbidimeter	5 - 500 NTU	1KT020
Electronic thermometer	-40 à 100°C	1TE000
Electronic pHmeter/thermometer	0 - 14	1PM003



Monoparameter kits

Cyanuric acid (stabitest)	0 - 200 mg/l	1KS006
m-alkalinity	2 - 60°F	1KT000
Chlorine / pH (swim test DPD)		1KS004
Chlorine / pH (swim test ortho TK20)		1KS005
Hardness 3 reagents	1 - 60°F	1KT001
Hardness 2 reagents	1 - 60°F	1KT004
Hardness 1 reagent	1 - 60°F	ORMCD1003



Multiparameter photometer for swimming pool

MD200 photometer

pH, chlorine, Cyanuric Acid. Delivered in suitcase with reagents capsules and accessories

Chlorine	0,01 - 6 mg/l
pH	6,5 - 8,4
Cyanuric Acid	2 - 160 mg/l

MD200 Photometer	14ML01
------------------	--------



Tablets for MD200 photometer (x 250)

DPD n°1	1D1018
DPD n°2	1D2007
DPD n°3	1D3005

DPD n°4	1D4004
Phenol Red	1PR004
Cyanuric Acid	1CA008



CALYPSO: Physical chemistry and photometry with in a single device

CALYPSO is the only device able to do measurement with probes (pH, ORP, Oxygen...) and photometry measurement with the PHOTOPOD (Cl₂, NO₃, NH₄, Fe, DCO...). The CALYPSO-PHOTOPOD, an intelligent, reliable device, meets all the requirements for water analyzes : urban and industrial wastewater, boilers, fish farming...



CALYPSO Multiparameter

Large backlit graphical 4"-display
Ergonomic design
IP67 protection
Storage capacity for up to 100 000 measurements



PHOTOPOD Photometer

Compact
"Plug and play" digital technology
Fast and easy methods



DIGISENS Physico chemical probes

4 "plug and play" probes to measure more than 10 parameters
Digital technology
Calibration data stored in the probe
Self-diagnostic of the state of the probe and the calibration
Direct measurement in the medium without sampling





CALYPSO Multiparameter

Wide 4"-screen with 320x240 backlit display



8 MB memory

Only 5 keys to access all functions

Ergonomic grip

Inserts for wrist or shoulder straps

IP 67
Waterproof
Shockproof

- USB cable
 - Charger
 - External power
- Probe 1 or Photopod

Probe 2



2 versions



OPEN One: 1 input



OPEN X: 2 inputs

Technical specifications

Memory	8 MB (up to more than 100,000 records)
Power supply	4 x 1.5V AA Options: rechargeable battery Power external 12 V
Battery life	145-190 hours depending on the configuration
Communication	USB
Housing	PC/ABS
Weight	400 g
Dimensions	196.5 x 121 x 46 mm
Protection	IP 67
Operating temperature, humidity	- 25 to + 50 ° C, 0-70%
Storage temperature, humidity	- 25 to + 65 ° C, 0-80%
Display	LCD 4" 240 x 320 pixel display with adjustable backlighting
Probe Connectors	1 input: CALYPSO OPEN ONE 2 inputs: CALYPSO OPEN X



Digital sensors

Smart digital probes

- All calibration data (factory coefficients, offset, slope) is stored in the probe,
- Digital technology for utmost reliability of measurements without interference.

Robust field and laboratory probes

- Probes perfected by over 50 years of experience
- Direct measurement in the field, without sampling
- Applications: drinking water, wastewater, sewerage...

Electrochemical sensors

Ph – Redox



Optical sensors

Turbidity



Conductivity



Oxygen



	PRINCIPLE	RANGE	ACCURACY	SENSOR		
OPTICAL	Oxygen	Optical luminescence technology	0,00-20,00 mg/L 0 - 200 %	± 0,1 mg/L ± 1 %	PVC, special membrane, inox 316L, herazil	Pressure and salinity compensation, Temperature compensation via CTN
	Turbidity	IR 90° technology	0,0-50,0 NTU 0,0-200,0 NTU 0-1000 NTU 0-4000 NTU Automatic NTU 0 - 4500 mg/L	< 5% of the full scale NTU	PVC, PMMA, Inox	Temperature compensation via CTN
ELECTROCHEMICAL	pH/T°C	Combined electrode (pH/Référence)	0,00 - 14,00 pH 0,00 à +50,00 °C	± 0,1 pH	Special glass pH Reference Ag/AgCl, Electrolyte plastogel Temperature : CTN	Temperature compensation via CTN
	ORP	Combined electrode/ Platinum electrode	- 1000,0 à + 1000,0 mV	± 1 mV	Delrin, glass, platine Reference Ag/AgCl, Electrolyte plastogel	
	Conductivity	C4E Technology 4 electrodes	0-200,0 µS/cm 0 -2000 µS/cm 0,00 -20,00 mS/cm 0,0 -200,0 mS/cm Automatic NTU	± 1 % of the full scale	2 graphite and 2 platinum electrodes DELIRIN	Temperature compensation via CTN
	Salinity	C4E Technology 4 electrodes	0,00-85,00 g/Kg	< 5 % of the full scale	2 graphite and 2 platinum electrodes DELIRIN	Temperature compensation via CTN



PHOTOPOD photometer

The PHOTOPOD is a compact photometer which connects to the multiparameter CALYPSO. Concentrate of technology designed for the field work. It is light, compact, and robust.

“Plug and Play”, it is automatically recognized and powered by the multiparameter CALYPSO. It has 5 LEDs with built-in digital filters. The wavelength is selected automatically.

- 5 LED with integrated numerical filters
- Automatic selection of wavelength
- Compact and robust
- 3 versions availables LS, SP or monoparameter

Tube for analysis

Shockproof

Waterproof connectivity



Technical specifications

Device	LED photometer for water analysis
Wavelength	639 nm, 591 nm, 518 nm, 468 nm, 400 nm
Detector	Silicon photo-diode
Cuvette	16 mm diameter round glass cuvette
More than 40 parameters	Cl ₂ , CN ⁻ , DCO, Fe, NH ⁴⁺ , NO ²⁻ , NO ³⁻ , PO ₄ ³⁻ , SiO ₂ ... See list p19
Wavelength adjustment	Automatic
Zero setting	Electronic storage
Measure	Absorbance or concentration
Signal	RS-485
Connection	Automatic recognition by multi-parameter CALYPSO
Dimensions	62 x 96 x 58 mm
Material	ABS

LS, SP et monoparameter versions

PHOTOPOD SP uses only tablet reagents (and test tube for COD, total nitrogen and total phosphorus)
 PHOTOPOD LS uses liquid reagents and tablet reagents (and test tube for COD, total nitrogen and total phosphorus)
 PHOTOPOD monoparameter is only for one parameter (to choose among the list)
 See *Parameter list* page 19



CALYPSO and PHOTOPOD

Kit CALYPSO OPEN ONE (1 connector) - without sensors	NA-ORC-C-00202	
Kit CALYPSO OPEN X (2 connectors) - without sensors	NC-ORC-C-00093	
KIT CALYPSO OPEN ONE	cable 1m	cable 3m
With numerical sensor OPTOD - Oxygen	NA-ORC-C-00205	NA-ORC-C-00209
With numerical sensor NTU - Turbidity	NA-ORC-C-00206	NA-ORC-C-00210
With numerical sensor C4E - Conductivity	NA-ORC-C-00207	NA-ORC-C-00211
With numerical sensor PHEHT - pH / ORP	NA-ORC-C-00208	NA-ORC-C-00212
KIT CALYPSO OPEN X	cable 1m	cable 3m
With numerical sensor PHEHT - pH / ORP	NA-ORC-C-00225	NA-ORC-C-00227
With numerical sensor C4E - Conductivity	NA-ORC-C-00226	NA-ORC-C-00228
With numerical sensors PHEHT - pH / ORP and C4E - Conductivity	NA-ORC-C-00233	NA-ORC-C-00204
SENSORS	cable 1m	cable 3m
Numerical sensor OPTOD - Oxygen	PF-CAP-C-00140	NA-CAP-C-00103
Numerical sensor NTU - Turbidity	PF-CAP-C-00146	NA-CAP-C-00102
Numerical sensor C4E - Conductivity	PF-CAP-C-00149	NA-CAP-C-00105
Numerical sensor PHEHT - pH / ORP (pH sensor is composed of 1 reference for the electronic part and 1 reference for the cartridge)	PF-CAP-C-00143	NA-CAP-C-00104
pH EHT cartridge for numerical sensor		PF-CAP-C-00155

Sensors are available with 7m, 15m cable or more on request

PHOTOPOD

Photopod LS (liquid and solid reagents)	NC-POR-C-00146
Photopod SP (solid reagents)	NA-ORC-C-00239
Photopod monoparameter	NA-POR-C-00136

Parameters list page 19

CALYPSO accessories

Rechargeable Battery Kit for CALYPSO: - AC Adaptor - Batteries	NA-ACC-C-00001
CALYPSO carrying case standard modele	PF-ACC-C-00190
CALYPSO carrying case big modele	PF-ACC-C-00201
Strong carrying case for CALYPSO including: 1 strong carrying case, 1 battery 12 V/ 17 Ah, 1 cable, 2 connectors for sensors	PF-ACC-C-00038
USB/PC cable	PF-ACC-C-00186
External 12 V alimentation cable	PF-ACC-C-00195
Y cable for 2 sensors	PF-ACC-C-00200
Filter screen for sensor	PF-ACC-C-00170
Coupling accessory for 2 sensors	PF-ACC-C-00197
Reel for sensor up to 20 m cable	PF-ACC-C-00062
Reel for sensor up to 100 m cable	PF-ACC-M-00010
Soft Update	PF-ACC-C-00191
Filter screen with DO disk for sensor OPTOD	PF-CSO-C-00041

Standard solutions and cleaning solutions for electrode see page 33



Each kit comes standard with:

- Carrying case (standard or large model with Photopod)
- Calypso with standard batteries
- The corresponding sensors
- The corresponding buffer solutions
- The WinTEK Viewer (unloading data) and a PC / USB cable
- A plastic operating instructions, a CD with complete manual



CALYPSO accessories

Photopod Accessory Kit:

- Plastic funnel 40mm H65mm (1EP021)
- 2 glass tubes diameter 16mm (1CR099)
- Tube holder plexi 2xd16 (1PT006)
- Plastic crushing rod (1AP018)
- Syringe 10 ml (1SU013)
- Graduated plastic tube 30 ml (14TP00)
- Demineralised water 125 ml (1ED010)

NA-ACC-C-00016

Graduated plastic tube 30 ml (14TP00)	14TP00
Plastic funnel 40mm H65mm	1EP021
2 glass tubes diameter 16mm	1CR099
Plastic crushing rod	1AP018
24 tubes tube holder diameter 16mm	1ST006
12 tubes tube holder diameter 16mm	1ST007
2 tubes holder diameter 16mm	1PT006

ACCESSORIES FOR COD, TOTAL NITROGEN AND TOTAL PHOSPHORUS TESTS

25 tubes Heating Reactor	1RD011
Wooden clamp	1PT007

ACCESSORIES FOR BENZOTRIAZOLE TEST

UV Lamp	14LU01
UV protection glasses	1LP010
Indicator paper pH 0 à 14 - 100 units	1PI030

ACCESSORIES FOR LIQUID HANDLING

Syringe 1 ml	1SU010
Syringe 2 ml	1SU011
Syringe 5 ml	1SU012
Syringe 10 ml	1SU013
Syringe 20 ml	1SU014
Automatic Pipette 0,1 à 1,0 ml	1PA022
Automatic Pipette 1 à 5 ml	1PA023
Tips 0,1 - 1,0 ml x 100 units	1EU002
Tips 1 - 5 ml x 100 units	1EU003
Macropipette	1T0007
Graduated pipette 1/10 1ml	1PG000
Graduated pipette 1/10 2ml	1PG001
Graduated pipette 1/5 5 ml	1PG002
Graduated pipette 1/10 10ml	1PG003

DEMINERALISED WATER

Demineralised water - 125 ml	1ED010
Demineralised water - 250 ml	1ED008
Demineralised water - 500 ml	1ED016
Demineralised water - 1000 ml	1ED014
Demineralised water - 5000 ml	1ED000





Standard solutions for ORP conductivity, turbidity and pH

Orchidis standard solutions and pH buffer solutions are prepared and controlled by our laboratory. The values given correspond to 25°C. For NIST certified solutions (or other certification), please contact us.



pH Buffer Solutions

	60 ml	125 ml	250 ml	500 ml	1000 ml
Buffer solution pH 10	1TP000	1TP001	1TP056	1TP002	1TP003
Buffer solution pH 9	1TP011	1TP012	1TP070	1TP013	1TP014
Buffer solution pH 7	1TP006	1TP005	1TP055	1TP007	1TP008
Buffer solution pH 4	1TP015	1TP016	1TP054	1TP017	1TP018
Buffer solution pH 7,01	-	1TP060	-	-	-
Buffer solution pH 4,01	-	1TP061	-	-	-

For other values of pH buffer or other volumes, please contact us

Conductivity Standard Solutions

	125 ml	500 ml	1000 ml
Conductivity Standard Solution 12880 $\mu\text{S}/\text{cm}$	1SC013	1SC045	1SC033
Conductivity Standard Solution 1413 $\mu\text{S}/\text{cm}$	14SCS19	1SC027	1SC011
Conductivity Standard Solution 111800 $\mu\text{S}/\text{cm}$	11SC035	1SC046	1SC034
Conductivity Standard Solution 84 $\mu\text{S}/\text{cm}$	1SE044	1SE024	1SE042

For other values of conductivity or other volumes, please contact us

ORP Standard Solutions

	125 ml	500 ml	1000 ml
ORP Standard Solutions 240 mV	1SR001	1SE028	1SE048
ORP Standard Solutions 470 mV	1SR004	1SR005	1SR006

For other ORP values or other volumes, please contact us

Turbidity Standard Solutions

	125 ml	500 ml	1000 ml
Formazine Solution 4000 NTU	1SF009	1SF007	1SF008

For other values of turbidity or other volumes, please contact us

Storage and cleaning solutions for electrodes

	125 ml
Storage solution for electrode pH & EH	1SC009
Cleaning solution for electrode	1SN004



Floculator - Flottatest

The floculators are used to conduct jar tests.

The flottatest is intended for floatation tests.

Orchidis floculators and flottatests feature an LCD display and a digital control for adjusting the speed and the timer. Quick and simple programming allows tasks to be reproduced perfectly.

The diffused light of the LED provides better visibility without dazzling.

The height-adjustable and lockable blades and stirring rods are made of 316L stainless steel to ensure chemical, physical and corrosive resistance.



Pressurized water is stored in a cylinder pressurized by a compressor (optional). The water is injected through magnet valves at the base of the vessels containing the samples. Water releases micro-air bubbles in order to study the floatation of particles in the sample.

	Field Floculator 4 places	laboratory Floculator 6 places	Flottatest
	FIS0100	14FJ01	1FF003
Number of places	4	6	3
Capacity	For flocculation jar 1L		For flotation jar 1,3L
Shafts and paddles	Adjustable in height and equipped with a self-locking device, Stainless steel 316L, resistant to chemical and physical attacks		
Display	Digital LCD display		
Speed	From 10 to 400 rpm, with 1 rpm step. Programmation with numerical command.		
Timer	From 10 to 3600 sec, with 1 sec step. Programmation with numerical command.		
Light	LED light, not blinding		
Power supply	12V with AC adaptor		
Dimensions WHD	325 x 440 x 325 mm	900 x 405 x 230 mm	710 x 580 x 210 mm
Weight	11,3 kg	17,5 kg	35 kg

Supplied Accessory for Floculator

AC Adaptor

Optional Accessory for Floculator

Plastic flocculation jar	1BP010
Glass flocculation jar	1VF001
Cigar lighter adaptor	1VF002
Carrying Case for 4 places field floculator	1AA050
Sacoche de transport pour floculateur 4 postes	1ST100

Supplied Accessories for Flottatest

AC Adaptor

3 glass flotation jar

Connection Tube

Optional Accessories for Flottatest

Compressor for Flottatest	1CF000
Glass flotation jar	1VF000



PRIM spectrophotometers

PRIM LIGHT and PRIM ADVANCED visible spectrophotometers combine excellent photometric quality with simple and intuitive handling.

Compact and lightweight, these spectrophotometers are ideal for standard applications in education or in laboratory.

PRIM Light: simple internal software which includes basic measurements in spectrophotometry, absorbance, transmittance and single standard concentration.

PRIM Advanced: Advanced applications in absorbance, transmittance, multi-standard concentrations, kinetics, multi-wavelengths and spectrum scanning.



Technical specifications

Spectral range	330-900 nm
Bandwidth	10 nm
Accuracy	± 1.5 %
Repeatability	± 1 nm
Photometric range	-0.3 Abs ; 0 -200 %T
Accuracy	± 2 %
Drift	< 0.03 A/h @ 500 nm
Stray light	0.5 %T @ 340 & 400 nm
Display	Alphanumeric LCD back-lit 2 lines height 8 mm 16 characters
Zero	Automatic
Light sources	Halogen
Detector	Silicon diode
Interface	Serial RS232C
Cell holder	1 cuvette 10 mmv
Power	115/230V - 50/60Hz
H x w x d	180 x 280 x 220 mm
Weight	2.5 kg

Software equipment

PRIM	Light	Advanced
Absorbance	YES	YES
% Transmission	YES	YES
Concentration With factor	YES	YES
Concentration With 1 standard	YES	YES
Concentration With 1 to 8 standards	NO	YES
Kinetics	NO	YES
Multi-wavelengths	NO	YES
Spectrum scanning	NO	YES
Peaks and valleys detection	NO	YES
Multi-language	YES	YES
Automatic stand-by	YES	YES

References

PRIM Light	70CI0377
PRIM Advanced	70CI0381
10mm cell holder (delivered with metal cell support réf 404917) Prim L&A	70CI0388
Thermostatable 10mm cell holder Prim L&A	70CI0386
16 mm tube holder Prim L&A	70CI0384
Box 7 flaws (visible) for spectrophotometers control	0G6349
Thermal printer KYOLINE black & white 40 column	0J6620
Set of 10 printer thermal paper rolls KYOLINE	0I6621

Standard delivery

PRIM spectrophotometer, Box of 100 plastic cuvettes, a 115/230V -50/60Hz transformer, user manual and performance certificate.



UviLine 8100, 9100 and 9400 spectrophotometers

UviLine UV-visible spectrophotometers combine the best innovations available today in analytical instruments: easy to use, accurate and powerful are the UviLine key words.

- UviLine spectrophotometers are the market's easiest to use spectrophotometers thanks to its powerful software, GLP compliance and fully accessible cuvette compartment.
- Time saving and best value for money are significant criteria for customers and UviLine spectrophotometers match these 2 points thanks to their software easy to learn and to use, fast reading process, and long life span lamps (xenon for the 9400 model)

Applications: Reference laboratories, Life Sciences, Education, Food industries, Chemical and petrochemical industries.



UviLine 8100

UviLine 9100-9400

Perfect optical design

- 1200 L/mm holographic grating for very low Stray Light
- Large Wavelength range:
 - 190 to 1100 nm for 9400
 - 320 to 1100 nm for 9100
- High optical resolution : 4nm
- Ambient light automatic compensation
- Fast scanning capability
- High light purity allowing a large reading range : + 3,300 Abs
- Automatic wavelength calibration

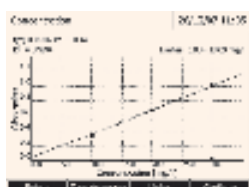
Powerful Software

The UviLine software brings you many exclusive features:

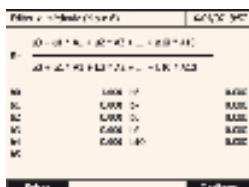
- Large selection of calculation methods: direct reading of the absorbance, multi-focus concentration, multi-wavelength, spectral scanning, kinetics.
- Detailed quality management: user administration, data management, replica of readings.
- Extended Storage capacity (internal + USB flash drives): method, data, graphics.
- Input-output ports with USB & RS 232 technology. USB drives, mouse, alphanumeric keypad, PC...



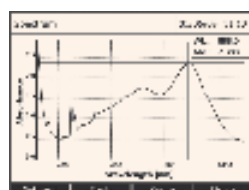
Direct reading



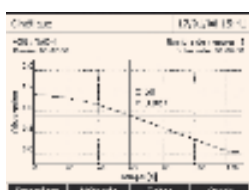
Concentration mode



Multiwavelength mode



Spectral scanning



Kinetics mode

ORCHIDIS methods embedded

UviLine 9100 and 9400 Spectrophotometers now have the ORCHIDIS methods embedded

Kit accessories for Orchidis methods
Ref : 1KA050

Parameters and reagents list
See page 19



Software details

Concentration	From 0 to 10 standards. Graphic calibration curve management
Kinetics	Dynamic graphic curve display, graphic management: zoom, slope calculation, current Abs
Spectrum scanning	Dynamic graphic curve display, graphic management: zoom, derivative, current Abs, peaks and valleys
Multi Wavelength	Up to 10 WL - results formula
GLP compliant	User login with 3 levels, parameters & data storage
Storage capacity	Internal: 100 methods / 30 graphics / 1000 data - With USB stick: limited to the key size

Technical specifications

	UviLine 8100	UviLine 9100 Visible	UviLine 9400 UV-Visible
Wavelength range	320-1100 nm	320-1100 nm	190-1100 nm
Light Source	Halogen	Halogen	Xenon
Bandpass	6 nm	4 nm	4 nm
Incremental WL step	Reading: 0.1 nm- Setting: 1 nm		
Wavelength accuracy	± 2 nm	± 1 nm	± 1 nm
Wavelength repeatability	± 0,5 nm	± 0,2 nm	± 0,2 nm
Absorbance range	± 3,300	± 3,300	± 3,300
Absorbance resolution	0,001	0,001	0,001
Photometric accuracy	0,5 % or 0,005 Abs < 1 Abs	0,3 % or 0,003 Abs < 0,600 Abs	0,3 % or 0,003 Abs < 0,600 Abs
Stray light	<0.1% to 340 nm (NaNO ₂)	0.1 % to 340 and 400 nm	0.1 % to 220, 340 and 400 nm
Flatness baseline	± 0,010 Abs	± 0,010 Abs	± 0,010 Abs
Scanning speed	Low - medium - fast		
Update	Via USB port		
Interface	1 USB-A, 1 USB-B, 1 RS 232C		
IP standard	IP 30 with drain in the cell compartment		
Power supply	110-220 V 50/60 Hz - specific country cable		
Température (°C) / Humidity	Use: +10°C to +35°C ; storage: -25°C to +65°C / Average p.a.: <75%, 30 days/year: 95%; rest: 85%		
Dimensions (L x W x H)	404 x 314 x 197 mm	404 x197 x 314 mm	404 x197 x 314 mm
Weight (net)	4,7 kg	4 kg	4 kg
Warranty	3 years	2 years	2 years

Accessories

A full range of accurate and easy-to-use accessories are available: optical glass or quartz suprasil cells, single cell holders (10mm, 100mm), Automatic cell changer 5 +1, Sipper, Peltier system.

References

UviLine 8100 - Visible 6nm spectrophotometer	70VI0480
1 pre-aligned halogen lamp for UviLine 8100	80ZZ0036
UviLine 9100 - VISIBLE 4 nm spectrophotometer	70VI0605
UviLine 9400 - UV/VISIBLE 4nm spectrophotometer	70VI0602
Pre-aligned spare lamp for UviLine 9100	70VI0604
Automated 5+1 cell changer / instrument driven *	70MI0670
Sipper / instrument driven *	70VI0500
16 mm tube holder. Quick-lock system	70VI0510
10mm cell holder thermostated (Peltier system) / instrument driven *	80ZZ0035
10mm cell holder. Quick-lock system (delivered standard with all UviLine series)	70VI0600
5mm-100mm universal tank holder & 16mm tube. Quick-lock system	70VI0601
Sipper with Peltier effect	70VI0602
PC LabPower software	70VI0603
Porte cuve 10 mm (livré en standard)	70VI0604
Porte cuve 20-50-100 mm *	70VI0605
Logiciel PC Lab Power *	70VI0606

* Cells and consumables : Ask for our 24 pages detailed catalogue



Pastel UV portable UV reagentless analyzer

Pastel UV is a reagent free tester for water quality control and effluents with measurements of COD, BOD, TSS, TOC, NO₃... in urban effluents, natural bodies of water, water treatment plant output.



- Multi-parametric measurements: COD, BOD, TOC, TSS, NO₃, Detergents
- All types of water (raw, treated, natural, and processed water)
- Fast, reading in less than a minute
- Reagent free

The PASTEL UV is able to measure 6 parameters simultaneously and thus permits rapid characterisation of the effluent.

Once the sample is taken with a micropipette and the quartz tank filled, the analysis and the results take less than a minute. This speed makes it possible to carry out a large number of measurements and to react in real time in cases of accidental pollution or of a process incident.

The sample undergoes no pre-treatment; if it is too concentrated, the device calculates automatically the dilution factor to be applied.

As PASTEL UV works without reagents or other additives, the cost of operating remains unchanged, no matter how many analyses are made.

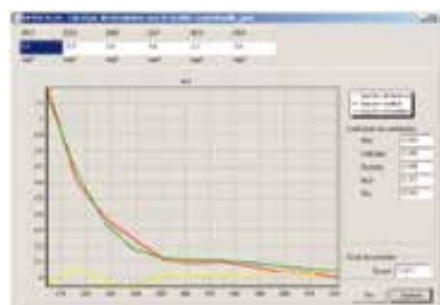
The set of data can be stored with a sample number, a code for the user, the location and the time of analysis. In addition to quantitative data the UV technology compares the profile of the sample with the type of selected water. This is used to validate the quantitative data and / or to detect the presence of accidental pollution.

Pro uV software

UV spectrum operating software

It can be used either to drive a laboratory device or to continuously collect data on-line from an analyzer.

- Setting up or / and calibration of the Advanced Spectral Deconvolution
- Driving of all SECOMAM UV detectors
- Data archiving
- Maintenance support tools
- Operation on the spectra (derivatives, smoothing, shift...)



Technical specifications

Spectral range	200 to 350 nm
Measuring cuvette	2 optical paths: 5 and 10 mm
Weight	9 kg
Dimensions	40 x 40 x 40 cm
Output	Display screen (64 x 128 pixels) RS232C bidirectional
Power supply	Internal Battery 100 readings External 110/240V / 50/60 Hz
Power	35 W

References

PASTEL UV (Optional UV Pro software)	70MP0316
UV-Pro Software	70MP0405
Kyoline printer	0M8303
Quartz cell 5 x 10 mm	0GQ203Z0
RS232C cable	0X5764D

Delivered with a carrying case, a micropipette, a transformer 110-240V / 50-60Hz.



Pastel UV-HAP

Designed in partnership with TOTAL and the Ecole des Mines d'Alès, PASTEL UV HAP is a simple, rapid, accurate and portable method to quantify PAHs.

Polycyclic Aromatic Hydrocarbons (PAHs) are considered priority pollutants because some of them may be carcinogenic. PAHs result from incomplete combustion of organic materials such as coal, oil and gas. Many industrial sites are contaminated with PAHs.

Based on the UV spectrophotometric analysis of an organic soil extract, the PAH concentration is estimated on site in 20 minutes. The measuring range is between 20 and 2000 mg / kg.

Protocol

The implementation of the kit is very simple and requires no special skills on the part of the user. Five grams of soil are collected and then pre-treated by drying, grinding and sieving. PAHs are then extracted from the soil by an organic solvent, and the extract obtained is filtered and diluted. Just a few milliliters of solution are needed for the UV analysis. Once the vessel is inserted into the analyzer, the result is displayed in one minute. The complete handling lasts only twenty minutes.



To make your first 20 analyzes the following consumables (not included), recommended by SECOMAM, you will be required:

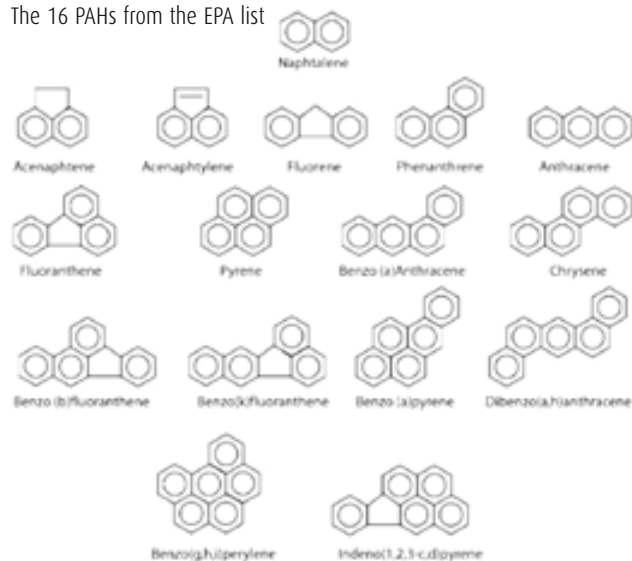
Material

- q (x1) 1 L polyethylene bottle for waste
- q (x1) 1L polyethylene bottle for organic solvent
- q (x1) filter support disk
- q (x1) 0,5 mm sieve
- q (x2) 50 ml polyethylene beaker
- q (x4) 60 ml glass flasks with their cork
- q (x1) 150 ml ceramic mortar with pestle
- q (x1) portable electronic balance (pocket size, max. weighing range = 150g, readout = 0,1g)
- q (x1) metal spatula
- q (x4) 20 ml graduated glass flasks with their cork
- q (x1) filter funnel for syringe with (x20) fiber-glass filter GF/C
- q (x20) disposable syringe
- q (x50) 2 ml transfer pipettes
- q (x1) 60 ml polyethylene flask for desiccant

Reagents

- q (x1) 1 liter of Acetonitrile HPLC grade for far UV (organic solvent)
- q (x1) 70 g of Anhydrous Sodium Sulphate (desiccant)

The 16 PAHs from the EPA list



Reference

Pastel UV-HAP	70MP0321
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For more information, please contact us.



BASIC semi-automatic biochemical analyzer

The BASIC semi-automatic analyzer is designed to assist all size of medical or hospital emergency/neonatal units, in obtaining rapid results on biochemical analysis of substrates, enzymes, ...

Analysis methods

Substrates: Albumin, Alcohol, Ammonia, Anti-Thrombin, Bicarbonates, Bilirubin, Calcium, Chloride, Cholesterol, HDL / LDL Cholesterol, Creatinine, Glucose, Iron, Magnesium, Magnesium Hb, Phospho-lipids, Phosphorus, Total proteins, Triglycerides, Urea, Uric Acid...

Enzymes: Acid / Alkaline Phosphatase, Amylase, APO-A1, APO-B, ASAT/GOT, ASAT/ALT, CK.NAC, Gamma GT, LDH, Lipase, Nucleotidase...



Quick and clean automated liquid handling thanks to the infra-red sample detector, peristaltic pump and micro flow-through cell. Direct access to the programmed method. Calculation modes ranging from the simplest reading (Absorbance and concentration, End Point with standard/factor or Multi-calibration mode) to the more complex (Enzyme/Two Point kinetics and Bichromatism). Clear and precise spreadsheet of results. Thermostated Peltier cell-holder. Validation of performance in accordance with (GBEA and) GLP requirements.

Technical specifications

Optical system	Spectrophotometer wavelength range 340-700 nm Detector : Silicium photodiode array 340-380-405-492-510-546-578-623 • nm Bandpass : 10 nm Wavelength accuracy : +/- 2 nm Wavelength repeatability : +/- 0.2 nm Reading range : -0.200 to 2.500 Abs Source : Pulsed Quartz-halogen lamp 6V/10W Straylight : <0.5% at 340 nm Photometric linearity : 1% from 0 to 2A Photometric accuracy : 0.001Abs at 1A, 0.005 Abs at 2A Drift : < 0.006A/h Noise level : < 0.001 at 0 A < 0.005 at 2 A
Storage capacity	94 open analysis, 1000 results
Analysis modes	Absorbance/Concentration End-Point with/without sample/reagent blank, with/without standard or factor Multi-calibration mode Enzyme kinetic with/without sample blank Two-Point kinetic with/without sample blank Bichromatism

Cuvette	Flow-through cuvette 30µl Accepts also plastic or glass cuvettes
Temperature control	By Peltier effect Ambiant-25-30-37°C (+/- 1°C in accuracy, +/- 0.3°C in repeatability)
Data display	40 x 60 mm LCD graphic video
Data archiving	Memory Printer PC computer
Interface	RS232C serial Centronics Parallel
Power requirement	110-230 VAC 50/60 Hz Max 50 VA
Dimensions	425 x 230 x 270 mm (W x D x H)
Weight	12 kg
Poids :	12 kg

Reference

Biochemical analyzer BASIC	70VB0358
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STAC Compact Alert Station

Multi-parametric warning system

SECOMAM and the Ecole des Mines d'Alès have developed a multi-parametric warning system called Compact Alert Station.

Using an innovative and patented technology, the STAC:

- Estimates the Organic Matter (COD, BOD, TOC), the TSS level and measures the nitrate concentration.
- Monitors and detects undesirable substances (Pesticides, aromatic hydrocarbons.)

PRINCIPLE

Most of macro pollutants and mainly Organic Matters, TSS and Nitrates absorb in a specific way in the UV light spectrum.

By measuring the sample absorbance in the specific area of the UV spectrum, the STAC records the spectral profile of the sample, a true numerical picture of the water quality.



Measuring ranges

Correlation with Organic Matter:

- COD: 5 mg/L to 30 mg/L
- BOD: 2 mg/L to 20 mg/L
- TOC: 5 mg/L to 30 mg/L
- TSS: 5 mg/L to 30 mg/L

Nitrates measurement:

- NO₃ : 1 mg/L to 20 mg/L

Undesirable substances detection:

2,4 D, diuron, chlorpyrifos, atrazine 200, aminotriazole, paraquat, diazinon, azulene, hexazinone, diquat, bentazone, aromatic hydrocarbons

Technical specifications

Detector	UV diode array spectrophotometer (204- 323 nm) without any moving parts Easy to maintain, 50 mm quartz cuvette Pulsed deuterium source for a far UV high energy		
Sampling	Automatic and sequential sampling circuit rinsing and cuvette cleaning Programmable automatic sampling from 5 to 30 minutes Pinching valves Ø 8 mm for TSS reading without filtration		
Date transfer	Current loops RS 232 UV-Pro software for data storage and UV spectrum management		
Casing	1- Control box: 300 x 300 x 170 mm, Weight: 3 kg, Protection IP 65	2- Fluidic box: 300 x 300 x 170 mm, Weight: 3 kg, Protection IP 65	3- Polychromator box: 280 x 190 x 180 mm, Weight: 3 kg, Protection IP 66/65

References

STAC Analyzer*	70MP0454
2mm optical pathlength flowcell	70MP0539
5mm optical pathlength flowcell	70MP0538
50mm optical pathlength flowcell	70MP0537

* Instrument delivered without cell, to be ordered separately (ref. 70MP0539 or ref. 70MP0538 or ref. 70MP0537)



STAC CL

STAC Chlorine analyzer.

With STAC CL, SECOMAM offers a powerful and easy to use on line solution for chlorine measurement. It is based on direct physical measurement in the UV of the chlorine concentration from 4 mg/L up to 3 000 mg/L . Much more STAC CL analyzer can simultaneously measure Dissolved Sulfide (H₂S) in 5 – 50 mg/L range.

The precise UV measurement (204-321nm) online without reagents allows a fine regulation of the injection of chlorine in the process of the tower deodorization. This industrial system has been tested for many years and has a wide measuring range of 4 mg / L to 3 g / L, thus greatly reducing the injection of chlorine and maintenance costs.



The measurement is based on the acquisition of the UV spectrum (204-321 nm) of the sample and its interpretation by a calculation method called "deconvolution".

Software

The Pro UV software, available with the STAC CL allows you to:

1. Adapt a model to the measured parameters (Cl₂ - HS -)
2. Download the sample spectra
3. Provide assistance for maintenance staff

Measuring range

It is possible to work on three ranges of measurement according to the size of the flow though cell used (2mm, 5mm)

Optical path of flow cell

2 mm
5 mm

Chlorine measuring range

De 100 à 3000 ppm
De 40 à 1200 ppm

Sulfide threshold detection

10 ppm
4 ppm

Caractéristiques Techniques

Optic	UV Polychromator (204-321nm)
Samples circulation	By gravity
Maximum pressure for liquids	1 bar
Number of measuring channels	1 for standard analyzer (maximum 4)
Measurement frequency	4 minutes per channel
Memory	4 models, 255 results
Working temperature	From 15 to 40°C
Samples temperature	40°C maximum
Nature of the samples	Natural or treated (tparticules size < 2mm)
Outputs	4 current loops (4-20 mA) and RS 232C port
Consumable	Demineralized or distilled water (blank)
Source	Deuterium lamp (100 000 measures maximum)
Power	Supply 230 V single phase - 50/60 Hz - 300 VA
Size	800 x 600 x 360 mm
Weight	15 kg

References

STAC Chlorine Analyzer*	70MP0457
5mm optical pathlength flowcell	70MP0543
2mm optical pathlength flowcell	70MP0544

* Instrument delivered without cell, to be ordered separately (ref. 70MP0543 or ref. 70MP0544)



Chemicals

ORCHIDIS manufactures all reagents and solutions listed below. For other packages or concentrations, please contact us.

We are also at your disposal for the production of customized reagents made according to specific needs and we also distribute many brands of chemicals (PANREAC, MERCK, VWR, SIGMA...).

	Unit.	Ref.		Unit.	Ref.		Unit.	Ref.
A/G reagent	60 ml	1RA011	Chloride indicator (without CMR)	1000 ml	11C015	DPD liquid n°1	1000 ml	14DL01
A/G reagent	500 ml	1RA001	Chloride reagent n°1	125 ml	1RC030	DPD liquid n°2	1000 ml	14DL02
A/G reagent	1000 ml	1RA002	Chloride reagent n°2	125 ml	1RC031	DPD reagent n°1	60 ml	1RD015
A/G reagent (glass bottle)	125 ml	1RA000	Chloride titration solution	1000 ml	11C020	DPD reagent n°3	60 ml	1RD016
A/G reagent (plastic bottle)	125 ml	1RA008	Chloride titration solution n°1	125 ml	11C021	ECAL indicator	15 g	11E003
Acetic acid 1/2	60 ml	1AA001	Chloride titration solution n°2	125 ml	11C022	ECAL indicator	20 g	11E002
Acetic acid 1/2	125 ml	1AA002	Chloride titration solution n°3	125 ml	11C023	ECAL indicator	150 g	11E000
Acetic acid 1/2	500 ml	1AA003	Chlorine reagent A	20 g	1RC023.	ECAL indicator	70 g	11E001
Acetic acid 1/2	1000 ml	1AA004	Chlorine reagent B	60 ml	1RC024.	EDTA 0,2 n	1000 ml	1AE015
Acid molybdate for stannous chloride	60 ml	1MA007	Chlorophenol red	500 ml	1CR006	EDTA solution n	1000 ml	11C018
Acid molybdate for stannous chloride	1000 ml	1MA008	Chlorophenol red	1000 ml	1CR007	EDTA solution n/10	60 ml	11C000
Ammonium chloride	60 ml	1AC037	Chlorophenol red	125 ml	1CR005	EDTA solution n/10	500 ml	11C002
Ammonium chloride	125 ml	1AC038	Chlorophenol red	60 ml	1CR004	EDTA solution n/10	5 l	11C004
Ammonium chloride	500 ml	1AC039	Chrome-metre reagent n°1	500 ml	14CR00	EDTA solution n/10	125 ml	11C001
Ammonium chloride	1000 ml	1AC040	Chrome-metre reagent n°2	1000 ml	14CR01	EDTA solution n/10	1000 ml	11C003
Ammonium molybdate	170 g	1AM011	Chromium reagent n°1	60 ml	1RC032	EDTA solution n/25	60 ml	11C005
Ammonium molybdate	80 g	1AM010	Chromium reagent n°2	60 ml	1RC033	EDTA solution n/25	125 ml	11C007
Ammonium molybdate 10%	500 ml	14MA03	Concentrated ammonia	60 ml	1AC030	EDTA solution n/25	250 ml	11C014
Ammonium molybdate 1% (without dropper)	60 ml	1AM018	Concentrated ammonia	125 ml	1AC031	EDTA solution n/25	500 ml	11C008
Ammonium oxalate powder	125 g	1A0008	Concentrated ammonia	500 ml	1AC032	EDTA solution n/25	1000 ml	11C009
Ammonium oxalate solution	60 ml	1A0007	Concentrated ammonia	1000 ml	1AC033	EDTA solution n/25	5 l	11C010
Ammonium oxalate solution	125 ml	1A0010	Concentrated ammonia	5 l	1AC055	EDTA solution n/50	125 ml	11C015
Ammonium oxalate solution	500 ml	1A0011	Concentrated ammonia	250 ml	1AC036	EDTA solution n/50	1000 ml	11C012
Ammonium oxalate solution	1000 ml	1A0012	Copper reagent n°1	60 ml	1RC036	EDTA solution n/50	5 l	11C013
Ammonium persulfate	50 g	1AP019	Copper reagent n°2	60 ml	1RC037	Fluorescein	100 g	1FP018
Aqueous solution of methyl red at 0.02%	125 ml	1MR001	Cyanide reagent buffer PE	60 ml	1RC018	Fluorescein	1000 g	1FP006
Ascorbic acid	150 g	1AA006	Cyanide reagent buffer PE	125 ml	1RC016	Fluorescein	250 g	1FP019
Ascorbic acid	70 g	1AA005	Cyanide reagent buffer PE	500 ml	1RC017	Fluorescein	500 g	1FP005
B/G reagent	500 ml	1RB001	Cyanide reagent n°1	125 ml	1RC006	Fluorescein	5000 g	1FP007
B/G reagent	1000 ml	1RB002	Cyanide reagent n°1	500 ml	1RC007	Fluoresceine solution	125 ml	1FS000
B/G reagent (glass bottle)	125 ml	1RB000	Cyanide reagent n°1	60 ml	1RC005	Fluoresceine solution	500 ml	1FS001
B/G reagent (plastic bottle)	125 ml	1RB005	Cyanide reagent n°2	150 g	1RC009	Fluoresceine solution	1000 ml	1FS002
Barium chloride solution	500 ml	1BC009	Cyanide reagent n°2	485 g	1RC010	Glacial acetic acid	1000 ml	1AA010
Barium chloride solution	5 l	1BC023	Cyanide reagent n°2	70 g	1RC008	Helianthine (methylorange)	60 ml	1H0000
Barium chloride solution	60 ml	1BC017	Cyanide reagent n°3	60 ml	1RC011	Helianthine (methylorange)	125 ml	1H0001
Barium chloride solution	125 ml	1BC008	Cyanide reagent n°3	125 ml	1RC012	Helianthine (methylorange)	250 ml	1H0002
Barium chloride solution	1000 ml	1BC010	Cyanide reagent n°3	500 ml	1RC013	Helianthine (methylorange)	500 ml	1H0003
Barium chloride solution 20%	250 ml	1BC012	DAB indicator	125 ml	11D001	Helianthine (methylorange)	1000 ml	1H0004
Bromocresol green	125 ml	1BV010	DAB indicator	250 ml	11D002	Helianthine (methylorange)	5 l	1H0005
Bromocresol green	500 ml	1BV011	DAB indicator	5 l	11D005	High range silica reagent	60 ml	1RS011
Bromocresol green	1000 ml	1BV012	DAB indicator	60 ml	11D006	High range silica reagent	125 ml	1RS010
Bromocresol green	60 ml	1BV009	DAB indicator	500 ml	11D003	Hydrochloric acid 1n	125 ml	1AC015
Bromophenol blue 0,5%	60 ml	1BB017	DAB indicator	1000 ml	11D004	Hydrochloric acid 1n	500 ml	1AC016
Bromophenol blue 0,5%	125 ml	1BB002	DEHA reagent n°1	100 g	1RD012	Hydrochloric acid 1n	1000 ml	1AC017
Bromothymol blue	60 ml	1BB003	DEHA reagent n°2	100 ml	1RD013	Hydrochloric acid 1/2	60 ml	1AC000
Bromothymol blue	125 ml	1BB004	Deionised water	125 ml	1ED010	Hydrochloric acid 1/2	500 ml	1AC001
Bromothymol blue	500 ml	1BB005	Deionised water	250 ml	1ED008	Hydrochloric acid 1/2	1000 ml	1AC002
Bromothymol blue	1000 ml	1BB006	Deionised water	500 ml	1ED016	Hydrochloric acid 1/3	500 ml	1AC003
Cation exchange resin	1 l	12RC01	Deionised water	1000 ml	1ED014	Hydrochloric acid 1/3	1000 ml	1AC004
Cation exchange resin	40 g	1RC015	Deionised water	5 l	1ED000	Hydrochloric acid 1/3	60 ml	1AC006
CBP indicator	180 g	11C001	Dimethylglyoxime	60 ml	1D6001	Hydrochloric acid 1/3	125 ml	1AC005
CBP indicator	20 g	11C002	Dimethylglyoxime	125 ml	1D1010	Hydrochloric acid n/10	1000 ml	1AC021
CBP indicator	85 g	11C000	Dimethylglyoxime	500 ml	1D5000	Hydrochloric acid n/10	60 ml	1AC018
Chloride indicator (without CMR)	60 ml	11C011	Dimethylglyoxime	250 ml	1D2000	Hydrochloric acid n/10	125 ml	1AC019
Chloride indicator (without CMR)	125 ml	11C012	Dimethylglyoxime	1000 ml	1D1011	Hydrochloric acid n/10	500 ml	1AC020
Chloride indicator (without CMR)	250 ml	11C013	Diphenylcarbazide reagent for chromium analysis	130 g	1D1012	Hydrogen peroxide	250 ml	1HP000
Chloride indicator (without CMR)	500 ml	11C014	Diphenylcarbazide reagent for chromium analysis	60 g	1D6002	Hydrogen peroxide	60 ml	1HP001
			Diphenylcarbazone	125 ml	1D1019	Hydrogen peroxide reagent n°1	60 ml	1RH001
			DPD glycine reagent	60 ml	1RD017	Hydrogen peroxide reagent n°2	60 ml	1RH002
						Hydrogen peroxide reagent n°3	60 ml	1RH003



Chemicals

	Unit.	Ref.		Unit.	Ref.		Unit.	Ref.
Hydroplus solution	60 ml	1LH019	Mixed indicator TAC	500 ml	1IM002	Phenolphthaleine TA	60 ml	1PT000
Hydroplus solution	500 ml	1LH022	Mixed indicator TAC	1000 ml	1IM003	Phenolphthaleine TA	125 ml	1PT001
Hydroplus solution	1000 ml	1LH023	Mixed indicator TAC	125 ml	1IM001	Phenolphthaleine TA	500 ml	1PT003
Hydroplus solution (glass bottle)	125 ml	1LH020	Mohr's salt 25 g/l	60 ml	1SD002	Phenolphthaleine TA	5 l	1PT015
Hydroplus solution (plastic bottle)	125 ml	1LH021	Mohr's salt 25 g/l	1000 ml	1SD005	Phenolphthaleine TA	250 ml	1PT002
Hydrotimetric concentrated solution	500 ml	1LH009	Mohr's salt 25 g/l	125 ml	1SD003	Phenolphthaleine TA	1000 ml	1PT004
Hydrotimetric concentrated solution	60 ml	1LH006	Mohr's salt 25 g/l	500 ml	1SD004	Phosphate reagent 1	125 ml	1RP025
Hydrotimetric concentrated solution (glass bottle)	125 ml	1LH007	Mohr's salt 5 g/l	1000 ml	1SD001	Phosphate reagent 1	500 ml	1RP022.
Hydrotimetric concentrated solution (plastic bottle)	125 ml	1LH008	Mohr's salt 5 g/l	125 ml	1SD000	Phosphate reagent 1	60 ml	1RP018
Hydrotimetric solution BB	5 l	1LH004	Molybdate equalizing reagent	60 ml	1RM010	Phosphate reagent 2	60 ml	1RP019
Hydrotimetric solution BB	500 ml	1LH002	Monosodic carbonate	60 ml	1CM001	Phosphate reagent 2	125 ml	1RP026
Hydrotimetric solution BB	125 ml	1LH001	Monosodic carbonate	125 ml	1CM002	Phosphate reagent 2	500 ml	1RP023.
Hydrotimetric solution BB	1000 ml	1LH003	Monosodic carbonate	500 ml	1CM003	Polyacrylate reagent A	60 ml	1RP000
Hydrotimetric solution BB	60 ml	1LH000	Monosodic carbonate	1000 ml	1CM004	Polyacrylate reagent A	125 ml	1RP001
Hydrotimetric special solution	60 ml	1LH012	Naphtol alpha (to analyze the presence of sugar)	60 ml	1NA000	Polyacrylate reagent A	1000 ml	1RP005
Hydrotimetric special solution	125 ml	1LH013	Nessler reagent	60 ml	1RD002	Polyacrylate reagent B	60 ml	1RP002
Hydrotimetric special solution	250 ml	1LH014	Nessler reagent	1000 ml	1RD005	Polyacrylate reagent B	125 ml	1RP003
Hydrotimetric special solution	500 ml	1LH015	Nessler reagent	500 ml	1RD004	Polyacrylate reagent B	1000 ml	1RP006
Hydrotimetric special solution	1000 ml	1LH016	Net indicator	125 ml	1RD003	Potassium chromate 10% CMR	60 ml	1PC004
Hydrotimetric special solution	5 l	1LH017	Net indicator	60 ml	1IN005	Potassium chromate 10% CMR	125 ml	1PC005
Iodine solution	125 ml	14SI02	Net indicator	125 ml	1IN000	Potassium chromate 10% CMR	250 ml	1PC006
Iodine solution	5000 ml	1SI002	Net indicator	250 ml	1IN001	Potassium chromate 10% CMR	500 ml	1PC007
Iodine solution 13 g/l	1000 ml	1SI003	Net indicator	500 ml	1IN002	Potassium chromate 10% CMR	1000 ml	1PC008
Iodure iodate	500 ml	1IT029	Net indicator	1000 ml	1IN003	Potassium hydroxide 8n	60 ml	1PH006
Iron reagent 1	60 ml	1RF005	Net indicator	5 l	1IN008	Potassium hydroxide 8n	250 ml	1PH005
Iron reagent 2	20 g	1RF006	Neutralising solution	60 ml	1N6000	Potassium hydroxide 8n	1000 ml	14PH04
Iron reagent 2	50 g	1RF009	Neutralising solution	125 ml	1N1000	Potassium hydroxide ethanolic solution 0.1Mol/l	1 l	1PH007
Iron reagent 3	60 ml	1RF007	Neutralising solution	500 ml	1N5000	Potassium hydroxide ethanolic solution 0.5Mol/l	1 l	1PH008
Iron reagent a	60 ml	1RF003	Neutralising solution	1000 ml	1N1001	Potassium iodate	60 ml	1PI000
Iron reagent b	60 ml	1RF004	Nickel reagent 1	60 g	1RN011	Potassium iodate	125 ml	1PI001
Low range silica reagent	60 ml	1RS013	Nickel reagent 2	60 ml	1RN012	Potassium iodate	500 ml	1PI002
Low range silica reagent	125 ml	1RS014	Nitrate equalizing reagent	60 ml	1RN005	Potassium iodate	1000 ml	1PI003
Manganese reagent n°1	60 ml	1RM007	Nitrate equalizing reagent	125 ml	1RN004	Potassium iodide	60 ml	1PI004
Manganese reagent n°2	60 ml	1RM008	Nitric acid n/10	1000 ml	1AN039	Potassium iodide	125 ml	1PI005
Manganese reagent n°3	60 ml	1RM009	Nitric acid n/5	60 ml	1AN001	Potassium iodide	500 ml	1PI006
Marble powder	150 g	1MP001	Nitric acid n/5	250 ml	1AN003	Potassium iodide	1000 ml	1PI007
Marble powder	650 g	1MP002	Nitric acid n/5	500 ml	1AN004	Potassium iodide	185 g	1PI016
Marble powder	70 g	1MP000	Nitric acid n/5	1000 ml	1AN005	Potassium iodide	250 g	1PI082
Marble solution	1000 ml	14SM08	Nitric acid n/5	125 ml	1AN002	Potassium iodide	50 g	14PI27
Mercuric nitrate n/10	1000 ml	1MN005	Nitrite reagent n°1	60 ml	1RN013	Potassium iodide	80 g	1PI015
Mercuric nitrate n/10	125 ml	1MN006	Nitrite reagent n°2	60 ml	1RN014	Potassium permanganate 0,82n	60 ml	1PP002
Mercuric nitrate n/10	500 ml	1MN011	Orthotolidine	500 ml	1O5000	Potassium permanganate 0,82n	125 ml	1PP003
Mercuric nitrate n/100	500 ml	1MN007	Orthotolidine	5 l	1O5001	Potassium permanganate 0,82n	500 ml	1PP004
Mercuric nitrate n/100	1000 ml	1MN016	Orthotolidine	60 ml	1O6000	Potassium permanganate n/10	60 ml	1PP005
Mercuric nitrate n/25	60 ml	1MN008	Orthotolidine	125 ml	1O1000	Potassium permanganate n/10	125 ml	1PP006
Mercuric nitrate n/25	500 ml	1MN002	Orthotolidine	250 ml	1O2000	Potassium permanganate n/10	250 ml	1PP007
Mercuric nitrate n/25	1000 ml	1MN003	Orthotolidine	500 ml	1O1001	Potassium permanganate n/10	500 ml	1PP007
Mercuric nitrate n/25	5 l	1MN004	Oxalic acid	1000 ml	1O1001	Potassium permanganate n/10	1000 ml	1PP008
Mercuric nitrate n/25	125 ml	1MN001	Oxalic acid	35 g	1A0005	Potassium permanganate n/80	60 ml	1PP009
Mercuric nitrate n/25	250 ml	1MN009	Oxalic acid 10 %	80 g	1A0014	Potassium permanganate n/80	125 ml	1PP010
Mercuric nitrate n/50	1000 ml	1MN010	Oxalic acid 10 %	60 ml	1A0000	Potassium permanganate n/80	500 ml	1PP011
Mercuric nitrate n/50	5 l	1MN013	Oxalic acid 10 %	1000 ml	1A0004	Potassium permanganate n/80	1000 ml	1PP012
Mercuric nitrate n/50	500 ml	1MN012	Oxalic acid 10 %	125 ml	1A0001	Potassium thiocyanate 0,05n PA	5 l	1PT016
Methyl red 0,1 %	60 ml	1MR000	Oxalic acid 10 %	250 ml	1A0002	Purple naphtol	60 ml	1NV001
Methylene blue	500 ml	1MB002	Oxalic acid 10 %	500 ml	1A0003	Purple naphtol	125 ml	1NV002
Methylene blue	1000 ml	1MB003	Oxidizing solution	5 l	14S000	Purple naphtol	250 ml	1NV003
Methylene blue	5 l	1MB008	Permanganate capsules - 4u	-	1GP001.	RD11	1000 g	14RC12
Methylene blue	60 ml	1MB000	Phenol red	60 ml	1PR008	Resin cleaning solution	5 l	14DR06.
Methylene blue	125 ml	1MB001	Phenol red	1000 ml	1PR012	Rhodol 1%	1000 ml	1R1004
Mixed indicator for chloride	60 ml	1IM004	Phenol red	125 ml	1PR009	Rhodol 1%	60 ml	1R1000
Mixed indicator for chloride	1000 ml	1IM005	Phenol red	500 ml	1PR011	Rhodol 1%	125 ml	1R1001
Mixed indicator tac	5 l	1IM008	Phenol red	250 ml	1PR010	Rhodol 1%	250 ml	1R1002
Mixed indicator tac	60 ml	1IM000	Phenolphthaleine pH	1000 ml	1PP019	Rhodol 1%	500 ml	1R1003
			Phenolphthaleine pH	60 ml	1PP015	Saturated potassium chloride sol.	125 ml	1PC001
			Phenolphthaleine pH	250 ml	1PP017	Saturated potassium chloride sol.	500 ml	1PC002
			Phenolphthaleine pH	125 ml	1PP016	Saturated potassium chloride sol.	1000 ml	1PC003
			Phenolphthaleine pH	500 ml	1PP018			



Chemicals

	Unit.	Ref.		Unit.	Ref.		Unit.	Ref.
Saturated potassium chloride solution /soil conservation	60 ml	1PC031	Sodium hydroxide n/50	5 l	1LA002	Sulphuric acid n/25	1000 ml	1LA046
Seignette's salt	60 ml	1SD010	Sodium hydroxide seignette salt	60 ml	1LA003	Sulphuric acid n/25	5 l	1LA019
Seignette's salt	250 ml	1SD012	Sodium hydroxide seignette salt	125 ml	1LA004	Sulphuric acid n/5	1000 ml	1LA021
Seignette's salt	1000 ml	1SD014	Sodium hydroxide seignette salt	500 ml	1LA043	Sulphuric acid n/5	125 ml	1LA018
Seignette's salt	125 ml	1SD011	Sodium hydroxide seignette salt	1000 ml	1LA005	Sulphuric acid n/50	125 ml	1LA023
Seignette's salt	500 ml	1SD013	Sodium periodate	20 g	1SP004	Sulphuric acid n/50	500 ml	1LA024
Silica gel	500 g	1GD005	Sodium periodate	70 g	1SP005	Sulphuric acid n/50	1000 ml	1LA040
Silver nitrate n°1	125 ml	1IT030	Sodium thiosulfate 0,1 n	1000 ml	1ST012	Sulphuric acid n/50	5 l	1LA025
Silver nitrate n°2	125 ml	1IT031	Sodium thiosulfate n/10	60 ml	1SH024	Sulphuric acid n/50	60 ml	1LA020
Silver nitrate n°3	125 ml	1IT001	Sodium thiosulfate n/10	125 ml	1SH025	Sulphuric acid tact	1000 ml	1LA026
Silver nitrate 0,01 n	1000 ml	1IT000	Sodium thiosulfate n/10	250 ml	1SH026	TA indicator	60 ml	1LA027
Silver nitrate 0,05 n	1000 ml	1IT002	Sodium thiosulfate n/10	1000 ml	1SH027	TA indicator	125 ml	1LA038.
Silver nitrate 1n	250 ml	1IZ000	Sodium thiosulfate n/2,8	125 ml	1SH022	TA indicator	250 ml	1LA037.
Silver nitrate 1n	500 ml	1IZ001	Sodium thiosulfate n/2,8	250 ml	1SH045	TA indicator	500 ml	1LA029
Silver nitrate 1n	1000 ml	1IZ002	Soluble starch	60 ml	1AS025	TA indicator	5 l	1LA039
Silver nitrate n/10	5 l	1AN056	Soluble starch	125 ml	1AS026	TA indicator	1000 ml	1LA030
Silver nitrate n/10	125 ml	14II00	Soluble starch	500 ml	1AS027	TAC pool reagent	10ml	1RT024
Silver nitrate n/10	500 ml	1AN054	Soluble starch	1000 ml	1AS028	TAC reagent direct turn	60 ml	1RT003
Silver nitrate n/10	1000 ml	1AN055	Soluble starch powder	100 g	14AS41	TAC reagent direct turn	125 ml	1RT004
Silver nitrate n/25	250 ml	1AN057	Stannous chloride	1000 ml	1CS014	TAC reagent direct turn	500 ml	1RT005
Silver nitrate n/25	1000 ml	1AN041	Sulfate reagent 1	60 ml	1RS015	TAC reagent single flask	125 ml	1RT023
Silver nitrate n/25	5 l	1AN025	Sulfate reagent 2	60 ml	1RS016	TAC reagent single flask	500 ml	1RT022
Silver nitrate n/25	60 ml	1AN048	Sulfite reagent 0 - 50 mg/l	60 ml	1RS020	TAC reagent single flask	125 ml	14RT08
Silver nitrate n/25	125 ml	1AN071	Sulfite reagent 1	50 g	1RS006	TAC reagent single flask	500 ml	14RT09
Silver nitrate n/25	500 ml	1AN042	Sulfite reagent 2	500 ml	1RS007	TAC reagent single flask	1000 ml	14RT10
Silver nitrate n/50	125 ml	1AN026	Sulfite reagent 2	1000 ml	1RS012	Tartaric acid	100 g	14AS43
Silver nitrate n/50	500 ml	1AN027	Sulfite reagent a	20 g	1RS001.	TDD indicator	60 ml	1LA031
Silver nitrate n/50	1000 ml	1AN060	Sulfite reagent a	250 g	1RS008	TDD indicator	500 ml	1LA035
Silver nitrate n/50	5 l	1AN028	Sulfite reagent a	50 g	1RS004.	TDD indicator	125 ml	1LA041
Sodium acid sulfate	60 g	1SS006	Sulfite reagent b	60 ml	1RS003.	TH K reagent	60 ml	1RT013
Sodium acid sulfates	130 g	1SS007	Sulfite reagent b	250 ml	1RS005	TH K reagent	500 ml	1RT002
Sodium fluoride	60 ml	1SF000	Sulfite reagent b	500 ml	1RS009	TH reagent n°1	60 ml	1RT010
Sodium fluoride	125 ml	1SF001	Sulfuric acid 0,1 n	1000 ml	1AS030	TH reagent n°1	500 ml	1RT000
Sodium fluoride	500 ml	1SF002	Sulfuric acid 1/2	250 ml	1AS039	TH reagent n°2	500 ml	1RT001
Sodium hydrosulfite	1000 g	1SH004	Sulfuric acid 1/2	500 ml	1AS012	TH reagent n°2	60 ml	1RT007
Sodium hydrosulfite	70 g	1SH005	Sulfuric acid 1/2	125 ml	1AS000	TH reagent n°2	125 ml	1RT012
Sodium hydrosulfite	150 g	1SH006	Sulfuric acid 1/2	60 ml	1AS011	TH test reagent K	125 ml	1RT021
Sodium hydroxide 0,1 n	1000 ml	1SH050	Sulfuric acid 1/2	1000 ml	1AS001	TH test reagent n°1	125 ml	1RT020
Sodium hydroxide 1 n	1000 ml	1SH053	Sulfuric acid 1/3	60 ml	1AS042	TH test reagent n°1 red	60 ml	1RT011
Sodium hydroxide 2 mol/l	1000 ml	1SH010	Sulfuric acid 1/3	1000 ml	1AS041	TH test reagent n°2	60 ml	1RT014
Sodium hydroxide 400 g/l	125 ml	1SH017	Sulfuric acid 1/3	60 ml	1AS013	high sensitivity	60 ml	1RT014
Sodium hydroxide 400 g/l	250 ml	1SH018	Sulfuric acid 1/4	60 ml	1AS013	TH test reagent n°2	500 ml	1RT015
Sodium hydroxide 400 g/l	1000 ml	1SH020	Sulfuric acid 1/4	125 ml	1AS014	high sensitivity		
Sodium hydroxide 400 g/l	500 ml	1SH019	Sulfuric acid 1/4	500 ml	1AS015	Thiodene	250 g	1T0003
Sodium hydroxide 400 g/l	5 l	1SH048	Sulfuric acid 1/4	1000 ml	1AS016	Thiodene	30 g	1T0001
Sodium hydroxide 400 g/l	60 ml	1SH016	Sulfuric acid 1n	1000 ml	1AS043	Thiodene	80 g	1T0002
Sodium hydroxide 5 n	125 ml	1SH054	Sulfuric acid 1n - bulb	amp.	1AS031	Total chlorine reagent	185 g	1RC004
Sodium hydroxide 5 n	1000 ml	1SH007	Sulfuric acid 2 mol/l (4n)	1000 ml	1AS007.	Total chlorine reagent	20 g	1RC002
Sodium hydroxide 5n	60 ml	14SH26	Sulfuric acid 2n	1000 ml	14AS39	Total chlorine reagent	80 g	1RC003
Sodium hydroxide n	500 ml	1AN043	Sulfuric acid 50%	1000 ml	1AS040	Triazole reagent	125 ml	1RT018
Sodium hydroxide n	1000 ml	1AN030	Sulfuric acid 5n	1000 ml	1AS004	Vanadomolybdc reagent	60 ml	1RV000
Sodium hydroxide n	125 ml	1AN029	Sulphuric acid 5n	125 ml	1LA006	Vanadomolybdc reagent	125 ml	1RV001
Sodium hydroxide n/10	60 ml	1AN031	Sulphuric acid n	125 ml	1LA007	Vanadomolybdc reagent	5 l	1RV005
Sodium hydroxide n/10	125 ml	1AN047	Sulphuric acid n	500 ml	1LA008	Vanadomolybdc reagent	250 ml	1RV002
Sodium hydroxide n/10	500 ml	1AN032	Sulphuric acid n	1000 ml	1LA009	Vanadomolybdc reagent	1000 ml	1RV004
Sodium hydroxide n/10	1000 ml	1AN033	Sulphuric acid n/10	125 ml	1LA014	Vanadomolybdc reagent	500 ml	1RV003
Sodium hydroxide n/10	5 l	1AN034	Sulphuric acid n/10	5 l	1LA017	Z indicator	125 ml	1IT027
Sodium hydroxide n/25	60 ml	1AN051	Sulphuric acid n/10	60 ml	1LA010	Z indicator	500 ml	1IT028
Sodium hydroxide n/25	125 ml	1LA011	Sulphuric acid n/10	60 ml	1LA015	Z indicator	60 ml	1IT026
Sodium hydroxide n/25	500 ml	1LA012	Sulphuric acid n/10	1000 ml	1LA016	Zinc chloride 71 % aqueous solution	1000 ml	14ZC03
Sodium hydroxide n/25	1000 ml	1LA013	Sulphuric acid n/25	60 ml	1LA042	Zinc plus reagent	60 ml	1RZ000
Sodium hydroxide n/25	5 l	1LA001	Sulphuric acid n/25	125 ml	1LA032	Zinc plus reagent	125 ml	1RZ001
			Sulphuric acid n/25	250 ml	1LA033			
			Sulphuric acid n/25	500 ml	1LA034			



Chemicals

	Unit.	Ref.		Unit.	Ref.		Unit.	Ref.
Ph buffer solutions			Buffer solution pH 7	125 ml	1TP005	Buffer solution K 10	250 ml	1TK003
Buffer solution pH 2	1000 ml	1TP040	Buffer solution pH 7	250 ml	1TP055	Buffer solution K 10	500 ml	1TK004
Buffer solution pH 2,2	1000 ml	1TP062	Buffer solution pH 7	500 ml	1TP007	Buffer solution K 10	1000 ml	1TK005
Buffer solution pH 4	60 ml	1TP015	Buffer solution pH 7	1000 ml	1TP008	Buffer solution K 10	5 l	1TK006
Buffer solution pH 4	125 ml	1TP016	Buffer solution pH 7,01	125 ml	1TP060	Buffer solution pH 10	60 ml	1TP000
Buffer solution pH 4	250 ml	1TP054	Buffer solution pH 7,01	5 l	1TP058	Buffer solution pH 10	125 ml	1TP001
Buffer solution pH 4	500 ml	1TP017	Buffer solution pH 9	60 ml	1TP011	Buffer solution pH 10	250 ml	1TP056
Buffer solution pH 4	1000 ml	1TP018	Buffer solution pH 9	125 ml	1TP012	Buffer solution pH 10	500 ml	1TP002
Buffer solution 4,01	125 ml	1TP061	Buffer solution pH 9	500 ml	1TP013	Buffer solution pH 10	1000 ml	1TP003
Buffer solution pH 4,01	5 l	1TP059	Buffer solution pH 9	1000 ml	1TP014	Buffer solution pH 11	1 l	1TP052
Buffer solution pH 5	500 ml	1TP057	Buffer solution pH 9	5 l	1TP063	Buffer solution pH 12	125 ml	1TP048
Buffer solution pH 6	125 ml	1TP064	Buffer solution K 10	60 ml	1TK000			
Buffer solution pH 7	60 ml	1TP006	Buffer solution K 10	125 ml	1TK002			
Conductivity standard solutions			1413 µs/cm	125 ml	14SCS19	2770 µs/cm	5 l	1SC030
10 µs/cm	125 ml	1SE025	1413 µs/cm	500 ml	1SC027	30 µs/cm	125 ml	1SE008
100 µs/cm	125 ml	1SC019	1413 µs/cm	1000 ml	1SC032	30 µs/cm	500 ml	1SE003
1000 µs/cm	125 ml	1SE032	1413 µs/cm	1000 ml	1SC011	3000 µs/cm	125 ml	1SE026
1000 µs/cm	500 ml	1SE013	1413 µs/cm	5 l	1SC028	3000 µs/cm	1000 ml	1SE057
111800 µs/cm	125 ml	11SC035	15 µs/cm	500 ml	1SC008	40 µs/cm	1000 ml	1SE058
111800 µs/cm	1000 ml	1SC034	1800 µs/cm	500 ml	1SE027	5 µs/cm at 25°C	500 ml	1SE047
111800 µs/cm	5 l	1SC022	2 ms/cm	5 l	1SC024	58640 µs/cm	5 l	1SC029
12880 µs/cm	60 ml	1SC012	20 ms/cm	5 l	1SC031	84 µs/cm at 25°C	125 ml	1SE044
12880 µs/cm	125 ml	1SE023	200 µs/cm	500 ml	1SC026	84 µs/cm	500 ml	1SE024
12880 µs/cm	125 ml	1SC013	200 ms/cm	5 l	1SC025	84 µs/cm	1000 ml	1SC020
12880 µs/cm	1000 ml	1SC033	2000 µs/cm	125 ml	1SE009	84 µs/cm at 25°C	1000 ml	1SE042
12880 µs/cm	5 l	1SC023	2000 µs/cm	500 ml	1SE004			
1413 µs/cm	60 ml	1SC007	2000 µs/cm	60 ml	1SE016			
ORP standard solutions			Redox std solution 240 mv	1000 ml	1SE048	Redox standard solution	500 ml	1SE029
Redox std solution 240 mv	125 ml	1SR001	Redox std solution 240 mv	5 l	1SE053	200-275 mv		
Redox std solution 240 mv	250 ml	1SE031	Redox std solution 470 mv	125 ml	1SR004	Silica std solution 50 µg/l SiO ₂	1000 ml	14SE63
Redox std solution 240 mv	500 ml	1SE028	Redox std solution 470 mv	500 ml	1SR005	Silica std solution 200 µg/l SiO ₂	1000 ml	14SE49
Turbidity standard solutions			Formazine solution 4000 ntu	500 ml	1SF007	Formazine solution 4000 ntu	1000 ml	1SF008
Formazine solution 4000 ntu	125 ml	1SF009	brown flask			brown flask		
Standard solutions			KCl std sol. 0,126 mol/l	125 ml	1SE054	Nitrate standard solution	1000 ml	14SE12.
Aluminium std sol. 5 mg/l	125 ml	14SE41	Manganese std sol. 1000 ppm	1000 ml	1SE055	50 mg/l		
Carbon std sol. SIRAC	500 ml	14SE59	Multi elements standard			Phosphate standard solution	500 ml	1SE019
Chloride std sol. 1000 mg/l Cl ⁻	125 ml	1SE035	solution "N-NO ₃ /N-NH ₄ / P-PO ₄ " 500 mg/l - 250ml	250 ml	1SE056	1 mg/l po4		
Iron std sol. 1000 mg/l	500 ml	1SE034				Phosphate standard solution	125 ml	1SE033
Silica std sol. 20 mg/l	1000 ml	14SE68				200 mg/l po4		
Storage and cleaning solutions for electrodes			Electrode cleaning sol. pH & EH	125 ml	1SN004	Electrode cleaning sol. pH & EH	1000 ml	1SN006
Conservation sol. pH & EH	125 ml	1SC009	Electrode cleaning sol. pH & EH	250 ml	1SN007			
Conservation sol. pH & EH	1000 ml	1SC035	Electrode cleaning sol. pH & EH	500 ml	1SN005			



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