

**Programming data for Spectrophotometer W-2100 for 486 test kits  
By Merck Chemical**

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# **W-2100**





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W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note
1. Total Alkalinity_0	Acid Capacity CT to pH4.3 (Total Alkalinity)	1.01758.0001	0.40-8.00	mmol/l OH	0 + 0	16 mm	dist. water	
2. Total Alkalinity_1						10 mm	dist. water	
3. Total Alkalinity_2			20-400	mg/l CaCO <sub>3</sub>		16 mm	dist. water	
4. Total Alkalinity_3						10 mm	dist. water	
5. Alkalinity_0	Acid Capacity CT to pH4.3 (Total Alkalinity)	1.01758.0001	0.40-8.00	mmol/l OH	0 + 0	16 mm	dist. water	
6. Alkalinity_1						10 mm	dist. water	
7. Alkalinity_2			20-400	mg/l CaCO <sub>3</sub>		16 mm	dist. water	
8. Alkalinity_3						10 mm	dist. water	
9. Al Test_0	Aluminum Test	1.14825.0001	0.10-0.60	mg/l Al	2 + 0	10 mm	dist. water	
10. Al Test_1			0.020-0.060			50 mm	dist. water	
11. Al CT_0	Aluminum CT	1.00594.0001	0.02 – 0.45	mg/l Al	5 + 0	16 mm	dist. water	
12. Al CT_1						10 mm	dist. water	
13. NH <sub>4</sub> <sup>+</sup> CT_0	Ammonium CT	1.14739.0001	0.010-2.000	mg/l NH <sub>4</sub> -N	15 + 0	16 mm	cell with blank	
14. NH <sub>4</sub> <sup>+</sup> CT_1						10 mm	own blank	
15. NH <sub>4</sub> <sup>+</sup> CT_2			0.01-2.58	mg/l NH <sub>4</sub> <sup>+</sup>		16 mm	cell with blank	
16. NH <sub>4</sub> <sup>+</sup> CT_0						10 mm	own blank	
17. NH <sub>4</sub> <sup>+</sup> Test_0	Ammonium Test	1.14752.0001	0.05-3.00	mg/l NH <sub>4</sub> -N	5 + 5	10 mm	own blank	
18. NH <sub>4</sub> <sup>+</sup> Test_1			0.03-1.50			20 mm	own blank	
19. NH <sub>4</sub> <sup>+</sup> Test_2			0.010-0.500			50 mm	own blank	
20. NH <sub>4</sub> <sup>+</sup> Test_3			0.06-3.86	mg/l NH <sub>4</sub> <sup>+</sup>		10 mm	own blank	
21. NH <sub>4</sub> <sup>+</sup> Test_4			0.04-1.93			20 mm	own blank	
22. NH <sub>4</sub> <sup>+</sup> Test_5			0.013-0.644			50 mm	own blank	



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23. NH <sub>4</sub> <sup>+</sup> CT_6	Ammonium CT	1.14558.0001	0.20-8.00	mg/l NH <sub>4</sub> -N	15 + 0	16 mm	cell with blank	
24. NH <sub>4</sub> <sup>+</sup> CT_7						10 mm	own blank	
25. NH <sub>4</sub> <sup>+</sup> CT_8			0.26-10.30	mg/l NH <sub>4</sub> <sup>+</sup>		16 mm	cell with blank	
26. NH <sub>4</sub> <sup>+</sup> CT_9						10 mm	own blank	
27. NH <sub>4</sub> <sup>+</sup> CT_10	Ammonium CT	1.14544.0001	0.5-16.0	mg/l NH <sub>4</sub> -N	15 + 0	16 mm	cell with blank	
28. NH <sub>4</sub> <sup>+</sup> CT_11						10 mm	own blank	
29. NH <sub>4</sub> <sup>+</sup> CT_12			0.6-20.6	mg/l NH <sub>4</sub> <sup>+</sup>		16 mm	cell with blank	
30. NH <sub>4</sub> <sup>+</sup> CT_13						10 mm	own blank	
31. NH <sub>4</sub> <sup>+</sup> Test_6	Ammonium Test	1.00683.0001	2.0-70.0	mg/l NH <sub>4</sub> -N	15 + 0	10 mm	own blank	
32. NH <sub>4</sub> <sup>+</sup> Test_7			5-140			10 mm	own blank	
33. NH <sub>4</sub> <sup>+</sup> Test_8			2.6-90.2	mg/l NH <sub>4</sub> <sup>+</sup>		10 mm	own blank	
34. NH <sub>4</sub> <sup>+</sup> Test_9			6-180			10 mm	own blank	
35. NH <sub>4</sub> <sup>+</sup> CT_14	Ammonium CT	1.14559.0001	4.0-80.0	mg/l NH <sub>4</sub> -N	15 + 0	16 mm	cell with blank	
36. NH <sub>4</sub> <sup>+</sup> CT_15						10 mm	own blank	
37. NH <sub>4</sub> <sup>+</sup> CT_16			5.2-103.0	mg/l NH <sub>4</sub> <sup>+</sup>		16 mm	cell with blank	
38. NH <sub>4</sub> <sup>+</sup> CT_17						10 mm	own blank	
39. AOX_0	AOX	1.00675.0001	0.05-2.50	mg/l AOX	15 + 0	16 mm	own blank	
40. AOX_1						10 mm	own blank	
41. As Test_0	Arsenic Test	1.01747.0001	0.005-0.100	mg/l As	120 + 0	10 mm	dist. water	
42. As Test_1			0.001-0.020			20 mm	dist. water	
43. BOD CT_0	BOD CT	1.00687.0001	0.5-3000	mg/l BOD	0 + 0	16 mm	dist. water	
44. BOD CT_1						10 mm	dist. water	
45. B Test	Boron Test	1.14839.0001	0.050-0.500	mg/l B	12 + 2	10 mm	own blank	



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46. B CT_0	Boron CT	1.00826.0001	0.05-2.00	mg/l B	60 + 0	16 mm	own blank	
47. B CT_1						10 mm	own blank	
48. Br Test_0	Bromine Test	1.00605.0001	0.10-10.00	mg/l Br <sub>2</sub>	1 + 0	10 mm	dist. water	
49. Br Test_1			0.05-5.00			20 mm	dist. water	
50. Br Test_2			0.020-2.000			50 mm	dist. water	
51. Cd Test_0	Cadmium Test	1.01745.0001	0.010-0.500	mg/l Cd	2 + 0	10 mm	own blank	
52. Cd Test_1			0.005-0.250			20 mm	own blank	
53. Cd Test_2			0.002-0.100			50 mm	own blank	
54. Cd CT_0	Cadmium CT	1.14834.0001	0.025-0.800	mg/l Cd	2 + 0	16 mm	own blank	
55. Cd CT_1						10 mm	own blank	
56. Ca Test_0	Calcium Test	1.14815.0001	10-160	mg/l Ca	8 + 0	10 mm	own blank	
57. Ca Test_1			25-400	mg/l CaCO <sub>3</sub>		10 mm	own blank	
58. Ca Test_2			14-224	mg/l CaO		10 mm	own blank	
59. Ca Test_3			May-80	mg/l Ca		20 mm	own blank	
60. Ca Test_4			12-200	mg/l CaCO <sub>3</sub>		20 mm	own blank	
61. Ca Test_5			7-112	mg/l CaO		20 mm	own blank	
62. Ca Test_6			1.0-15.0 <sup>1)</sup>	mg/l Ca		10 mm	own blank	
63. Ca Test_7			2.5-37.5 <sup>1)</sup>	mg/l CaCO <sub>3</sub>		10 mm	own blank	
64. Ca Test_8			1.4-21.0 <sup>1)</sup>	mg/l CaO		10 mm	own blank	
65. Ca CT_0	Calcium CT	1.00858.0001	10-250	mg/l Ca	3 + 0	16 mm	dist. water	instrument-specific calibration curve, built according to different instrument
66. Ca CT_1			25-625	mg/l CaCO <sub>3</sub>		16 mm	dist. water	
67. Ca CT_2			14-350	mg/l CaO		16 mm	dist. water	
68. Ca CT_3			10-250	mg/l Ca		10 mm	dist. water	



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69. Ca CT_4	Calcium CT	1.00858.0001	25-625	mg/l CaCO <sub>3</sub>	3 + 0	10 mm	dist. water	calibration curve, built according to different instrument
70. Ca CT_5			14-350	mg/l CaO		10 mm	dist. water	
71. CO(NHNH <sub>2</sub> ) <sub>2</sub> _0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
72. CO(NHNH <sub>2</sub> ) <sub>2</sub> _1			0.027-0.667	mg/l Carbohy	10+0		own blank	
73. CO(NHNH <sub>2</sub> ) <sub>2</sub> _2			0.053-1.315	mg/l Hydro	2+0		own blank	
74. CO(NHNH <sub>2</sub> ) <sub>2</sub> _3			0.078-1.950	mg/l ISA	10+0		own blank	
75. CO(NHNH <sub>2</sub> ) <sub>2</sub> _4			0.087-2.170	mg/l MEKO	10+0		own blank	
76. Cl CT_0	Chloride CT	1.14730.0001	5-125	mg/l Cl <sup>-</sup>	0 + 0	16 mm	own blank	
77. Cl CT_1						10 mm	own blank	
78. Cl Test_0	Chloride Test	1.14897.0001	10-220	mg/l Cl <sup>-</sup>	1 + 0	10 mm	own blank	
79. Cl Test_1			2.5-25.0			10 mm	own blank	
80. Free Cl Test_0	Chlorine Test (free chlorine)	1.00598.	0.05-4.40	mg/l Cl <sub>2</sub>	1 + 0	10 mm	dist. water	1.00598.0002(200 measuring times); 1.00598.0001 (1200 measuring times)
81. Free Cl Test_1			0.02-2.20			20 mm	dist. water	
82. Free Cl Test_2			0.010-0.900			50 mm	dist. water	
83. Free Cl CT	Chlorine CT (free chlorine)	1.00595.0001	0.03-3.00	mg/l Cl <sub>2</sub>	1 + 0	16 mm	dist. water	
84. Total Cl Test_0	Chlorine Test (total Chlorine)	1.00602.	0.05-4.40	mg/l Cl <sub>2</sub>	1 + 0	10 mm	dist. water	1.00602.0001 (200 measuring times); 1.00602.0002 (1200 measuring times)
85. Total Cl Test_1			0.02-2.20			20 mm	dist. water	
86. Total Cl Test_2			0.010-0.800			50 mm	dist. water	
87. Free+total Cl Test_0	Chlorine Test (free+total Chlorine)	1.00599.0001	0.05-4.40	mg/l Cl <sub>2</sub>	1 + 0	10 mm	dist. water	
88. Free+total Cl Test_1			0.02-2.20			20 mm	dist. water	
89. Free+total Cl Test_2			0.010-0.800			50 mm	dist. water	



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90. Free+total Cl CT	Chlorine CT (free+total chlorine)	1.00597.0001	0.03-3.00	mg/l Cl <sub>2</sub>	1 + 0	16 mm	dist. water	
91. Free+total Cl(l)_0	Chlorine (liquid) (free+total Chlorine)	1.00086.0001	0.03-3.00	mg/l Cl <sub>2</sub>	1 + 0	16 mm	dist. water	200 measuring times
92. Free+total Cl(l)_1		1.00087.0001	0.010-1.000			50 mm	dist. water	400 measuring times
93. Free+total Cl(l)_2		1.00088.0001						600 measuring times
94. Free+total Cl(l)_3		1.00089.0001						Cell Kits
95. ClO <sub>2</sub> Test_0	Chlorine dioxide Test	1.00608.0001	0.10-8.00	mg/l ClO <sub>2</sub>	2 + 1	10 mm	dist. water	
96. ClO <sub>2</sub> Test_1			0.05-4.00			20 mm	dist. water	
97. ClO <sub>2</sub> Test_2			0.020-1.600			50 mm	dist. water	
98. Cr Test_0	Chromate Test	1.14758.0001	0.05-1.70	mg/l Cr	0 + 0	10 mm	dist. water	
99. Cr Test_1			0.03-0.85			20 mm	dist. water	
100. Cr Test_2			0.010-0.340			50 mm	dist. water	
101. Cr Test_3			0.11-3.79	mg/l CrO <sub>4</sub>		10 mm	dist. water	
102. Cr Test_4			0.07-1.90			20 mm	dist. water	
103. Cr Test_5			0.02-0.758			50 mm	dist. water	
104. Cr CT_0	Chromate CT	1.14552.0001	0.05-1.20	mg/l Cr	0 + 0	16 mm	cell with blank	
105. Cr CT_1						10 mm	dist. water	
106. Cr CT_2			0.11-2.68	mg/l CrO <sub>4</sub>		16 mm	cell with blank	
107. Cr CT_3						10 mm	dist. Water	
108. COD CT_0	COD CT	1.14540.0001	10-150	mg/l COD	0 + 0	16 mm	own blank	
109. COD CT_1						10 mm	own blank	
110. COD CT_2	COD CT	1.14895.0001	15-300	mg/l COD	0 + 0	16 mm	own blank	
111. COD CT_3						10 mm	own blank	



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112.COD CT_4	COD CT	1.14690.0001	50-500	mg/l COD	0 + 0	16 mm	own blank	
113.COD CT_5						10 mm	own blank	
114.COD CT_6	COD CT	1.14541.0001	25-1500	mg/l COD	0 + 0	16 mm	own blank	
115.COD CT_7						10 mm	own blank	
116.COD CT_8	COD CT	1.14691.0001	300-3500	mg/l COD	0 + 0	16 mm	own blank	
117.COD CT_9						10 mm	own blank	
118.COD CT_10	COD CT	1.14555.0001	500-9000	mg/l COD	0 + 0	16 mm	own blank	
119.COD CT_11						10 mm	own blank	
120.COD CT_12	COD CT	1.01797.0001	5000 – 85000	mg/l COD	0 + 0	16 mm	own blank	
121.COD CT_13						10 mm	own blank	
122.COD CT(Hg free)_0	COD CT (Hg free)	1.09772.0001	10-150	mg/l COD	0 + 0	16 mm	own blank	
123.COD CT(Hg free)_1						10 mm	own blank	
124.COD CT(Hg free)_2	COD CT (Hg free)	1.09773.0001	100-1500	mg/l COD	0 + 0	16 mm	own blank	
125.COD CT(Hg free)_3						10 mm	own blank	
126.Colour_0	Colour	EN ISO 7887	2 - 500	CU	0 + 0	50 mm	dist. water	
127.Colour_1		EN ISO 7887	0.5-40.0	m <sup>-1</sup>	0 + 0	50 mm	dist. water	Measure @ Different wavelength
128.Colour_2		EN ISO 7887	0.5-40.0	m <sup>-1</sup>	0 + 0	50 mm	dist. water	
129.Colour_3		EN ISO 7887	0.5-40.0	m <sup>-1</sup>	0 + 0	50 mm	dist. water	
130.Colour measurement_0	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	Measure @ Different wavelength
131.Colour measurement_1	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	
132.Colour measurement_2	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	



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133.Cu Test_0	Copper Test	1.14767.0001	0.10-6.00	mg/l Cu	5 + 0	10 mm	dist. water	
134.Cu Test_1			0.05-3.00			20 mm	dist. water	
135.Cu Test_2			0.02-1.20			50 mm	dist. water	
136.Cu CT_0	Copper CT	1.14553.0001	0.05-7.00	mg/l Cu	5 + 0	16 mm	cell with blank	
137.Cu CT_1						10 mm	dist. water	
138.CN Test_0	Cyanide Test	1.09701.0001	0.010-0.400	mg/l CN <sup>-</sup>	10 + 0	10 mm	dist. water	
139.CN Test_1			0.005-0.200			20 mm	dist. water	
140.CN Test_2			0.002-0.080			50 mm	dist. water	
141.CN Test_3	Cyanide Test	1.14800.0001	0.010-0.360	mg/l CN <sup>-</sup>	5 + 0	10 mm	dist. water	
142.CN Test_4			0.005-0.180			20 mm	dist. water	
143.CN Test_5			0.002-0.070			50 mm	dist. water	
144.CN CT_0	Cyanide CT	1.14561.0001	0.010-0.300	mg/l CN <sup>-</sup>	10 + 0	16 mm	dist. water	
145.CN CT_1						10 mm	dist. water	
146.DEHA_0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
147.DEHA_1			0.027-0.667	mg/l Carbohy	10+0		own blank	
148.DEHA_2			0.053-1.315	mg/l Hydro	2+0		own blank	
149.DEHA_3			0.078-1.950	mg/l ISA	10+0		own blank	
150.DEHA_4			0.087-2.170	mg/l MEKO	10+0		own blank	
151.Detergents(anionic) CT_0	Surfactants (anionic) CT	1.14697.0001	0.05-2.00	mg/l MBAS	10 + 0	16 mm	cell with blank	
152.Detergents(cationic) CT_1	Surfactants (cationic) CT	1.01764.0001	0.05-1.50	mg/l CTAB	5 + 0	16 mm	cell with blank	
153.Detergents(non-ionic) CT_2	Surfactants (non-ionic) CT	1.01787.0001	0.10-7.50	mg/l Triton	2 + 0	16 mm	own blank	
				TRITON X-100			own blank	





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154.Dissolved Oxygen_0	Oxygen, dissolved CT	1.14694.0001	0.5-12.0	mg/l O <sub>2</sub>	0 + 0	16 mm	dist. water	
155.Dissolved Oxygen_1						10 mm	dist. water	
156.F CT_0	Fluoride CT	1.14557.0001	0.10-1.50	mg/l F <sup>-</sup>	5 + 0	16 mm	own blank	
157.F CT_1						10 mm	own blank	
158.F CT_2			0.025-0.500			50 mm	own blank	
159.F CT_3	Fluoride CT	1.00809.0001	0.10-1.80	mg/l F <sup>-</sup>	15 + 0	16 mm	own blank	
160.F CT_4						10 mm	own blank	
161.F CT_5			0.025-0.500 <sup>1)</sup>			50 mm	own blank	
162.F Test_2	Fluoride Test	1.14598.0001	0.10-2.00	mg/l F <sup>-</sup>	5 + 0	10 mm	own blank	
163.F Test_3			1.0-20.0			10 mm	own blank	
164.HCHO Test_0	Formaldehyde Test	1.14678.0001	0.10-6.00	mg/l HCHO	10 + 0	10 mm	dist. water	
165.HCHO Test_1			0.05-2.00			20 mm	dist. Water	
166.HCHO Test_2			0.02-1.20			50 mm	dist. water	
167.HCHO CT_0	Formaldehyde CT	1.14500.0001	0.10-8.00	mg/l HCHO	5 + 0	16 mm	dist. water	
168.HCHO CT_1						10 mm	dist. water	
169.Au Test	Gold Test	1.14821.0001	0.5-8.0	mg/l Au	0 + 0	10 mm	own blank	
170.Hazen colour number_0	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	Measure @ different wavelength
171.Hazen colour number_1	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	
172.HAZEN colour number_2	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	
173.N <sub>2</sub> H <sub>4</sub> Test_0	Hydrazine Test	1.09711.0001	0.02-1.80	mg/l N <sub>2</sub> H <sub>4</sub>	5 + 0	10 mm	dist. water	
174.N <sub>2</sub> H <sub>4</sub> Test_1			0.01-0.90			20 mm	dist. water	
175.N <sub>2</sub> H <sub>4</sub> Test_2			0.005-0.360			50 mm	dist. water	



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176.H <sub>2</sub> O <sub>2</sub> CT_0	Hydrogen peroxide CT	1.14731.0001	2.0-20.0	mg/l H <sub>2</sub> O <sub>2</sub>	2 + 0	16 mm	cell with blank	
177.H <sub>2</sub> O <sub>2</sub> CT_1						10 mm	dist. water	
178.H <sub>2</sub> O <sub>2</sub> CT_2			0.25-5.00			50 mm	dist. water	
179.H <sub>2</sub> O <sub>2</sub> Test_0	Hydrogen peroxide Test	1.18789.0001	0.03 – 5.60	mg/l H <sub>2</sub> O <sub>2</sub>	10 + 0	10 mm	own blank	
180.H <sub>2</sub> O <sub>2</sub> Test_1			0.015 – 2.800			20 mm	own blank	
181.H <sub>2</sub> S_0	Sulfide Test	1.14779.0001	0.10-1.50	mg/l S <sup>2-</sup>	1 + 0	10 mm	dist. water	
182.H <sub>2</sub> S_1			0.020-0.500			50 mm	dist. water	
183.HQ_0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
184.HQ_1			0.027-0.667	mg/l Carbohy	10+0		own blank	
185.HQ_2			0.053-1.315	mg/l Hydro	2+0		own blank	
186.HQ_3			0.078-1.950	mg/l ISA	10+0		own blank	
187.HQ_4			0.087-2.170	mg/l MEKO	10+0		own blank	
188.I Test_0	Iodine Test	1.00606.0001	0.20-10.00	mg/l I <sub>2</sub>	1 + 0	10 mm	dist. water	
189.I Test_1			0.10-5.00			20 mm	dist. water	
190.I Test_2			0.050-2.000			50 mm	dist. water	
191.Iodine colour number_0	Iodine colour number		1.0-35.0	IFZ	0 + 0	10 mm	dist. water	
192.Iodine colour number_1			0.5-17.5			20 mm	dist. water	
193.Iodine colour number_2			0.2-7.0			50 mm	dist. water	
194.Isoascorbic acid_0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
195.Isoascorbic acid_1			0.027-0.667	mg/l Carbohy	10+0		own blank	
196.Isoascorbic acid_2			0.053-1.315	mg/l Hydro	2+0		own blank	
197.Isoascorbic acid_3			0.078-1.950	mg/l ISA	10+0		own blank	



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**Programming data for Spectrophotometer W-2100 for 486 test kits  
 By Merck Chemical**

W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note
198.Isoascorbic acid_4	Oxygen Scavengers Test	1.19251.0001	0.087-2.170	mg/l MEKO	10+0	20 mm	own blank	
199.Fe Test_0	Iron Test	1.14761.	0.05-3.00	mg/l Fe	3 + 0	10 mm	dist. water	1.14761.0002 (250 measuring times); 1.14761.0001 (1000 measuring times)
200.Fe Test_1			0.03-1.50			20 mm	dist. water	
201.Fe Test_2			0.005-0.600			50 mm	dist. water	
202.Fe Test_3	Iron Test	1.00796.0001	0.10-5.00	mg/l Fe	5 + 10	10 mm	dist. water	Distinction between Fe(II) and Fe(III) possible
203.Fe Test_4			0.05-2.50			20 mm	dist. water	
204.Fe Test_5			0.010-1.000			50 mm	dist. water	
205.Fe CT_0	Iron CT	1.14549.0001	0.05-2.50	mg/l Fe	3 + 0	16 mm	cell with blank	
206.Fe CT_1			0.05-2.50			10 mm	dist. water	
207.Fe CT_2	Iron CT	1.14896.0001	1.0-50.0	mg/l Fe	5 + 0	16 mm	cell with blank	Distinction between Fe(II) and Fe(III) possible
208.Fe CT_3						10 mm	dist. water	
209.Pb Test_0	Lead Test	1.09717.0001	0.10-5.00	mg/l Pb	0 + 0	10 mm	own blank	
210.Pb Test_1			0.05-2.50			20 mm	own blank	
211.Pb Test_2			0.010-1.000			50 mm	own blank	
212.Pb CT_0	Lead CT	1.14833.0001	0.10-5.00	mg/l Pb	0 + 0	16 mm	cell with blank	
213.Pb CT_1						10 mm	own blank	
214.Mg CT_0	Magnesium CT	1.00815.0001	5.0-75.0	mg/l Mg	3 + 0	16 mm	dist. water	
215.Mg CT_1						10 mm	dist. water	
216.Mn Test_0	Manganese Test	1.01739.0001	0.05-2.00	mg/l Mn	10 + 0	10 mm	own blank	
217.Mn Test_1			0.03-1.00			20 mm	own blank	
218.Mn Test_2			0.005-0.400			50 mm	own blank	



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219.Mn Test_3	Manganese Test	1.14770.0001	0.50-10.00	mg/l Mn	2 + 2	10 mm	dist. water	
220.Mn Test_4			0.25-5.00			20 mm	dist. water	
221.Mn Test_5			0.01-2.00			50 mm	dist. water	
222.Mn CT_2	Manganese CT	1.00816.0001	0.10-5.00	mg/l Mn	2 + 5	16 mm	cell with blank	
223.Mn CT_3						10 mm	dist. water	
224.MEKO_0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
225.MEKO_1			0.027-0.667	mg/l Carbohy	10+0		own blank	
226.MEKO_2			0.053-1.315	mg/l Hydro	2+0		own blank	
227.MEKO_3			0.078-1.950	mg/l ISA	10+0		own blank	
228.MEKO_4			0.087-2.170	mg/l MEKO	10+0		own blank	
229.Mo CT_0	Molybdenum CT	1.00860.0001	0.02-1.00	mg/l Mo	2 + 0	16 mm	own blank	
230.Mo CT_1						10 mm	own blank	
231.Mo CT_2			0.03-1.67	mg/l MoO <sub>4</sub> <sup>2-</sup>		16 mm	own blank	
232.Mo CT_3						10 mm	own blank	
233.Mo CT_4			0.04-2.15	mg/l Na <sub>2</sub> MoO <sub>4</sub>		16 mm	own blank	
234.Mo CT_5						10 mm	own blank	
235.Mo Test_0	Molybdenum Test	1.19252.0001	0.5-33.0	mg/l Mo	5 + 0	20 mm	own blank	
236.Mo Test_1			0.8-55.0	mg/l MoO <sub>4</sub> <sup>2-</sup>		20 mm	own blank	
237.Mo Test_2			1.1-70.8	mg/l Na <sub>2</sub> MoO <sub>4</sub>		20 mm	own blank	
238.NH <sub>2</sub> Cl Test_0	Monochloramine Test	1.01632.0001	0.25-10.00	mg/l Cl <sub>2</sub>	5 + 10	10 mm	own blank	
239.NH <sub>2</sub> Cl Test_1			0.13-5.00			20 mm	own blank	
240.NH <sub>2</sub> Cl Test_2			0.050-2.000			50 mm	own blank	
241.NH <sub>2</sub> Cl Test_3			0.18-7.25	mg/l NH <sub>2</sub> Cl		10 mm	own blank	
242.NH <sub>2</sub> Cl Test_4			0.09-3.63			20 mm	own blank	



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W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note		
243.NH <sub>2</sub> Cl Test_5	Monochloramine Test	1.01632.0001	0.036-1.450		5 + 10	50 mm	own blank			
244.NH <sub>2</sub> Cl Test_6			0.05-1.96	mg/l NH <sub>2</sub> Cl-N		10 mm	own blank			
245.NH <sub>2</sub> Cl Test_7			0.03-0.98			20 mm	own blank			
246.NH <sub>2</sub> Cl Test_8			0.010-0.392			50 mm	own blank			
247.Ni Test_0	Nickel Test	1.14785.0001	0.10-5.00	mg/l Ni	1 + 2	10 mm	dist. water			
248.Ni Test_1			0.05-2.50			20 mm	dist. water			
249.Ni Test_2			0.02-1.00			50 mm	dist. water			
250.Ni CT_0	Nickel CT	1.14554.0001	0.10-6.00	mg/l Ni	1 + 2	16 mm	cell with blank			
251.Ni CT_1						10 mm	own blank			
252.NO <sub>3</sub> <sup>-</sup> Test_0	Nitrate Test	1.14773.0001	0.5-18.0	mg/l NO <sub>3</sub> -N	10 + 0	10 mm	own blank			
253.NO <sub>3</sub> <sup>-</sup> Test_1			0.2-9.0			20 mm	own blank			
254.NO <sub>3</sub> <sup>-</sup> Test_2			2.2-79.7	mg/l NO <sub>3</sub> <sup>-</sup>		10 mm	own blank			
255.NO <sub>3</sub> <sup>-</sup> Test_3			0.9-39.8			20 mm	own blank			
256.NO <sub>3</sub> <sup>-</sup> CT_0	Nitrate CT	1.14542.0001	0.5-13.0	mg/l NO <sub>3</sub> -N	10 + 0	16 mm	cell with blank			
257.NO <sub>3</sub> <sup>-</sup> CT_1						10 mm	own blank			
258.NO <sub>3</sub> <sup>-</sup> CT_2						2.2-57.5	mg/l NO <sub>3</sub> <sup>-</sup>	16 mm	cell with blank	
259.NO <sub>3</sub> <sup>-</sup> CT_3								10 mm	own blank	
260.NO <sub>3</sub> <sup>-</sup> CT(seawater)_0	Nitrate CT in seawater	1.14556.0001	0.10-2.20	mg/l NO <sub>3</sub> -N	30 + 0	16 mm	dist. water			
261.NO <sub>3</sub> <sup>-</sup> CT(seawater)_1			0.10-2.20			10 mm	dist. water			
262.NO <sub>3</sub> <sup>-</sup> CT(seawater)_2			0.4-9.7	mg/l NO <sub>3</sub> <sup>-</sup>		16 mm	dist. water			
263.NO <sub>3</sub> <sup>-</sup> CT(seawater)_3			0.4-9.7			10 mm	dist. water			
264.NO <sub>3</sub> <sup>-</sup> Test(seawater)_0	Nitrate Test in seawater	1.14942.0001	0.2-15.0	mg/l NO <sub>3</sub> -N	15 + 60	10 mm	dist. water			
265.NO <sub>3</sub> <sup>-</sup> Test(seawater)_1			0.9-66.40	mg/l NO <sub>3</sub> <sup>-</sup>		10 mm	dist. water			



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W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note		
266.NO <sub>2</sub> <sup>-</sup> Test_4	Nitrite Test	1.14776.	0.02-0.70	mg/l NO <sub>2</sub> -N	10 + 0	10 mm	dist. water	1.14776.0002 (335 measuring times); 1.14776.0001 (1000 measuring times)		
267.NO <sub>2</sub> <sup>-</sup> Test_5			0.010-0.350			20 mm	dist. water			
268.NO <sub>2</sub> <sup>-</sup> Test_6			0.002-0.140			50 mm	dist. water			
269.NO <sub>2</sub> <sup>-</sup> Test_7			0.07-2.30	mg/l NO <sub>2</sub> <sup>-</sup>		10 mm	dist. water			
270.NO <sub>2</sub> <sup>-</sup> Test_8			0.03-1.15			20 mm	dist. water			
271.NO <sub>2</sub> <sup>-</sup> Test_9			0.007-0.460			50 mm	dist. water			
272.NO <sub>2</sub> <sup>-</sup> CT_4	Nitrite CT	1.14547.0001	0.010-0.500	mg/l NO <sub>2</sub> -N	10 + 0	16 mm	cell with blank			
273.NO <sub>2</sub> <sup>-</sup> CT_5						10 mm	dist. water			
274.NO <sub>2</sub> <sup>-</sup> CT_6			0.03-1.64	mg/l NO <sub>2</sub> <sup>-</sup>		16 mm	cell with blank			
275.NO <sub>2</sub> <sup>-</sup> CT_7						10 mm	dist. water			
276.NO <sub>2</sub> <sup>-</sup> CT_8	Nitrite CT	1.00609.0001	1.0-90.0	mg/l NO <sub>2</sub> -N	20 + 0	16 mm	dist. water			
277.NO <sub>2</sub> <sup>-</sup> CT_9						10mm	dist. water			
278.NO <sub>2</sub> <sup>-</sup> CT_10			3.3-295.2	mg/l NO <sub>2</sub> <sup>-</sup>		16 mm	dist. water			
279.NO <sub>2</sub> <sup>-</sup> CT_11						10mm	dist. water			
280.Total N CT_0	Nitrogen, total CT	1.14537.0001	0.5-15.0	mg/l N	10 + 0	16 mm	own blank			
281.Total N CT_1						10 mm	own blank			
282.NH <sub>4</sub> <sup>+</sup> -N CT_0	Ammonium CT	1.14739.0001	0.010-2.000	mg/l NH <sub>4</sub> -N	15 + 0	16 mm	cell with blank			
283.NH <sub>4</sub> <sup>+</sup> -N CT_1								10 mm	own blank	
284.NH <sub>4</sub> <sup>+</sup> -N CT_2						0.01-2.58	mg/l NH <sub>4</sub> <sup>+</sup>	16 mm	cell with blank	
285.NH <sub>4</sub> <sup>+</sup> -N CT_3								10 mm	own blank	
286.NH <sub>4</sub> <sup>+</sup> -N Test_0	Ammonium Test	1.14752.0001	0.05-3.00	mg/l NH <sub>4</sub> -N	5 + 5	10 mm	own blank			
287.NH <sub>4</sub> <sup>+</sup> -N Test_1								20 mm	own blank	
288.NH <sub>4</sub> <sup>+</sup> -N Test_2						0.03-1.50		50 mm	own blank	
289.NH <sub>4</sub> <sup>+</sup> -N Test_3						0.010-0.500		10 mm	own blank	
			0.06-3.86	mg/l NH <sub>4</sub> <sup>+</sup>						



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W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note
290.NH <sub>4</sub> <sup>+</sup> -N Test_4			0.04-1.93			20 mm	own blank	
291.NH <sub>4</sub> <sup>+</sup> -N Test_5	Ammonium Test	1.14752.0001	0.013-0.644		5 + 5	50 mm	own blank	
292.NH <sub>4</sub> <sup>+</sup> -N CT_6			0.20-8.00	mg/l NH <sub>4</sub> -N		16 mm	cell with blank	
293.NH <sub>4</sub> <sup>+</sup> -N CT_7						10 mm	own blank	
294.NH <sub>4</sub> <sup>+</sup> -N CT_8	Ammonium CT	1.14558.0001	0.26-10.30	mg/l NH <sub>4</sub> <sup>+</sup>	15 + 0	16 mm	cell with blank	
295.NH <sub>4</sub> <sup>+</sup> -N CT_9						10 mm	own blank	
296.NH <sub>4</sub> <sup>+</sup> -N CT_10			0.5-16.0	mg/l NH <sub>4</sub> -N		16 mm	cell with blank	
297.NH <sub>4</sub> <sup>+</sup> -N CT_11						10 mm	own blank	
298.NH <sub>4</sub> <sup>+</sup> -N CT_12	Ammonium CT	1.14544.0001	0.6-20.6	mg/l NH <sub>4</sub> <sup>+</sup>	15 + 0	16 mm	cell with blank	
299.NH <sub>4</sub> <sup>+</sup> -N CT_13						10 mm	own blank	
300.NH <sub>4</sub> <sup>+</sup> -N Test_6			2.0-70.0	mg/l NH <sub>4</sub> -N		10 mm	own blank	
301.NH <sub>4</sub> <sup>+</sup> -N Test_7			5-140			10 mm	own blank	
302.NH <sub>4</sub> <sup>+</sup> -N Test_8	Ammonium Test	1.00683.0001	2.6-90.2	mg/l NH <sub>4</sub> <sup>+</sup>	15 + 0	10 mm	own blank	
303.NH <sub>4</sub> <sup>+</sup> -N Test_9			6-180			10 mm	own blank	
304.NH <sub>4</sub> <sup>+</sup> -N CT_14			4.0-80.0	mg/l NH <sub>4</sub> -N		16 mm	cell with blank	
305.NH <sub>4</sub> <sup>+</sup> -N CT_15						10 mm	own blank	
306.NH <sub>4</sub> <sup>+</sup> -N CT_16	Ammonium CT	1.14559.0001	5.2-103.0	mg/l NH <sub>4</sub> <sup>+</sup>	15 + 0	16 mm	cell with blank	
307.NH <sub>4</sub> <sup>+</sup> -N CT_17						10 mm	own blank	
308.NO <sub>3</sub> <sup>-</sup> -N Test_0			0.5-18.0	mg/l NO <sub>3</sub> -N		10 mm	own blank	
309.NO <sub>3</sub> <sup>-</sup> -N Test_1			0.2-9.0			20 mm	own blank	
310.NO <sub>3</sub> <sup>-</sup> -N Test_2	Nitrate Test	1.14773.0001	2.2-79.7	mg/l NO <sub>3</sub> <sup>-</sup>	10 + 0	10 mm	own blank	
311.NO <sub>3</sub> <sup>-</sup> -N Test_3			0.9-39.8			20 mm	own blank	
312.NO <sub>3</sub> <sup>-</sup> -N CT_0			0.5-13.0	mg/l NO <sub>3</sub> -N		16 mm	cell with blank	
313.NO <sub>3</sub> <sup>-</sup> -N CT_1	Nitrate CT	1.14542.0001			10 + 0	10 mm	own blank	



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314.NO <sub>3</sub> <sup>-</sup> -NCT_2	Nitrate CT	1.14542.0001	2.2-57.5	mg/l NO <sub>3</sub> <sup>-</sup>	10 + 0	16 mm	cell with blank	
315.NO <sub>3</sub> <sup>-</sup> -NCT_3						10 mm	own blank	
316.NO <sub>3</sub> <sup>-</sup> -N CT(seawater)_0	Nitrate CT in seawater	1.14556.0001	0.10-2.20	mg/l NO <sub>3</sub> -N	30 + 0	16 mm	dist. water	
317.NO <sub>3</sub> <sup>-</sup> -N CT(seawater)_1			0.10-2.20			10 mm	dist. water	
318.NO <sub>3</sub> <sup>-</sup> -N CT(seawater)_2			0.4-9.7	mg/l NO <sub>3</sub> <sup>-</sup>		16 mm	dist. water	
319.NO <sub>3</sub> <sup>-</sup> -N CT(seawater)_3			0.4-9.7			10 mm	dist. water	
320.NO <sub>3</sub> <sup>-</sup> -N Test(seawater)_0	Nitrate Test in seawater	1.14942.0001	0.2-15.0	mg/l NO <sub>3</sub> -N	15 + 60	10 mm	dist. water	
321.NO <sub>3</sub> <sup>-</sup> -N Test(seawater)_1			0.9-66.40	mg/l NO <sub>3</sub> <sup>-</sup>		10 mm	dist. water	
322.NO <sub>2</sub> <sup>-</sup> -N Test_4	Nitrite Test	1.14776.	0.02-0.70	mg/l NO <sub>2</sub> -N	10 + 0	10 mm	dist. water	1.14776.0002 (335 measuring times); 1.14776.0001 (1000 measuring times)
323.NO <sub>2</sub> <sup>-</sup> -N Test_5			0.010-0.350			20 mm	dist. water	
324.NO <sub>2</sub> <sup>-</sup> -N Test_6			0.002-0.140			50 mm	dist. water	
325.NO <sub>2</sub> <sup>-</sup> -N Test_7			0.07-2.30	mg/l NO <sub>2</sub> <sup>-</sup>		10 mm	dist. water	
326.NO <sub>2</sub> <sup>-</sup> -N Test_8			0.03-1.15			20 mm	dist. water	
327.NO <sub>2</sub> <sup>-</sup> -N Test_9			0.007-0.460			50 mm	dist. water	
328.NO <sub>2</sub> <sup>-</sup> -NCT_4	Nitrite CT	1.14547.0001	0.010-0.500	mg/l NO <sub>2</sub> -N	10 + 0	16 mm	cell with blank	
329.NO <sub>2</sub> <sup>-</sup> -NCT_5						10 mm	dist. water	
330.NO <sub>2</sub> <sup>-</sup> -NCT_6			0.03-1.64	mg/l NO <sub>2</sub> <sup>-</sup>		16 mm	cell with blank	
331.NO <sub>2</sub> <sup>-</sup> -NCT_7						10 mm	dist. water	
332.NO <sub>2</sub> <sup>-</sup> -NCT_8	Nitrite CT	1.00609.0001	1.0-90.0	mg/l NO <sub>2</sub> -N	20 + 0	16 mm	dist. water	
333.NO <sub>2</sub> <sup>-</sup> -NCT_9						10mm	dist. water	
334.NO <sub>2</sub> <sup>-</sup> -NCT_10			3.3-295.2	mg/l NO <sub>2</sub> <sup>-</sup>		16 mm	dist. water	
335.NO <sub>2</sub> <sup>-</sup> -NCT_11						10mm	dist. water	
336.Organic Acids, Volatile CT_0	Volatile Organic Acids CT	1.01763.0001	50-2800	mg/l HOAc	3 + 10	16 mm	own blank	
337.Organic Acids, Volatile CT_1						10 mm	own blank	





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338.Organic Carbon	TOC CT	1.14878.0001	5.0-80.0	mg/l TOC	0 + 0	16 mm	own blank	
339.Organic Carbon	TOC CT	1.14879.0001	50-800	mg/l TOC	0 + 0	16 mm	own blank	
340.DO CT_0	Oxygen, dissolved CT	1.14694.0001	0.5-12.0	mg/l O <sub>2</sub>	0 + 0	16 mm	dist. water	
341.DO CT_1						10 mm	dist. water	
342.Oxygen Scavengers_0	Oxygen Scavengers Test	1.19251.0001	0.020-0.500	mg/l DEHA	10+0	20 mm	own blank	
343.Oxygen Scavengers_1			0.027-0.667	mg/l Carbohy	10+0		own blank	
344.Oxygen Scavengers_2			0.053-1.315	mg/l Hydro	2+0		own blank	
345.Oxygen Scavengers_3			0.078-1.950	mg/l ISA	10+0		own blank	
346.Oxygen Scavengers_4			0.087-2.170	mg/l MEKO	10+0		own blank	
347.O <sub>3</sub> Test_0	Ozone Test	1.00607.0001	0.05-3.00	mg/l O <sub>3</sub>	1 + 0	10 mm	dist. water	
348.O <sub>3</sub> Test_1			0.02-1.50			20 mm	dist. water	
349.O <sub>3</sub> Test_2			0.010-0.600			50 mm	dist. water	
350.Peroxide CT_0	Hydrogen peroxide CT	1.14731.0001	2.0-20.0	mg/l H <sub>2</sub> O <sub>2</sub>	2 + 0	16 mm	cell with blank	
351.Peroxide CT_1						10 mm	dist. water	
352.Peroxide CT_2			0.25-5.00			50 mm	dist. water	
353.Peroxide Test_0	Hydrogen peroxide Test	1.18789.0001	0.03 – 5.60	mg/l H <sub>2</sub> O <sub>2</sub>	10 + 0	10 mm	own blank	
354.Peroxide Test_1			0.015 – 2.800			20 mm	own blank	
355.pH CT_0	pH CT	1.01744.0001	6.4-8.0	pH units	0 + 0	16 mm	dist. water	
356.pH CT_1						10 mm	dist. water	
357.Phenol Test_0	Phenol Test	1.00856.0001	0.002-0.100	mg/l Phenol	30 + 10	20 mm	own blank	
358.Phenol Test_1			0.10-5.00		10 + 0	10 mm	own blank	
359.Phenol Test_2			0.013-2.500			20 mm	own blank	
360.Phenol Test_3			0.025-1.000			50 mm	own blank	



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**Programming data for Spectrophotometer W-2100 for 486 test kits  
 By Merck Chemical**

W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note
361.Phenol CT_0	Phenol CT	1.14551.0001	0.10-2.50	mg/l Phenol	1 + 0	16 mm	cell with blank	
362.Phenol CT_1						10 mm	own blank	
363.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_0	Phosphate Test (PMB)	1.14848.0001	0.05-5.00	mg/l PO <sub>4</sub> -P	5 + 0	10 mm	own blank	
364.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_1			0.03-2.50			20 mm	own blank	
365.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_2			0.010-1.000			50 mm	own blank	
366.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_3			0.2-15.3	mg/l PO <sub>4</sub> <sup>3-</sup>		10 mm	own blank	
367.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_4			0.09-7.67			20 mm	own blank	
368.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_5			0.03-3.07			50 mm	own blank	
369.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_6			0.11-11.46	mg/l P <sub>2</sub> O <sub>5</sub>		10 mm	own blank	
370.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_7			0.07-5.73			20 mm	own blank	
371.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_8			0.02-2.29			50 mm	own blank	
372.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_0			Phosphate CT (PMB)	1.14543.0001		0.05-4.00	mg/l PO <sub>4</sub> -P	5 + 0
373.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_1					10 mm	own blank		
374.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_2	0.2-12.3	mg/l PO <sub>4</sub> <sup>3-</sup>			16 mm	cell with blank		
375.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_3					10 mm	own blank		
376.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_4	0.11-9.17	mg/l P <sub>2</sub> O <sub>5</sub>			16 mm	cell with blank		
377.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_5					10 mm	own blank		
378.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_0	(o)-Phosphate CT (PMB)	1.00474.0001	0.05-4.00	mg/l PO <sub>4</sub> -P	5 + 0	16 mm	cell with blank	
379.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_1						10 mm	own blank	
380.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_2			0.2-12.3	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
381.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_3						10 mm	own blank	
382.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_4			0.11-9.17	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
383.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_5						10 mm	own blank	



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**Programming data for Spectrophotometer W-2100 for 486 test kits**  
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384.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_6	Phosphate CT (PMB)	1.14729.0001	0.5-20.0	mg/l PO <sub>4</sub> -P	5 + 0	16 mm	cell with blank	
385.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_7						10 mm	own blank	
386.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_8			1.5-61.3	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
387.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_9						10 mm	own blank	
388.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_10			1.1-45.8	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
389.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_11						10 mm	own blank	
390.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_6	(o)-Phosphate CT (PMB)	1.00475.0001	0.5-20.0	mg/l PO <sub>4</sub> -P	5 + 0	16 mm	cell with blank	
391.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_7						10 mm	own blank	
392.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_8			1.5-61.3	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
393.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_9						10 mm	own blank	
394.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_10			1.1-45.8	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
395.(o)- PO <sub>4</sub> <sup>3-</sup> CT(PMB)_11						10 mm	own blank	
396.PO <sub>4</sub> <sup>3-</sup> CT(VM)_0	Phosphate CT (VM)	1.14546.0001	0.5-20.0	mg/l PO <sub>4</sub> -P	0 + 0	16 mm	cell with blank	
397.PO <sub>4</sub> <sup>3-</sup> CT(VM)_1			1.0-26.0			10 mm	own blank	
398.PO <sub>4</sub> <sup>3-</sup> CT(VM)_2			1.5-61.3	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
399.PO <sub>4</sub> <sup>3-</sup> CT(VM)_3			3.0-79.7			10 mm	own blank	
400.PO <sub>4</sub> <sup>3-</sup> CT(VM)_4			1.1-45.5	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
401.PO <sub>4</sub> <sup>3-</sup> CT(VM)_5			1.5-59.6			10 mm	own blank	
402.PO <sub>4</sub> <sup>3-</sup> Test(VM)_0	Phosphate Test (VM)	1.14842.0001	1.0-30.0	mg/l PO <sub>4</sub> -P	0 + 0	10 mm	own blank	
403.PO <sub>4</sub> <sup>3-</sup> Test(VM)_1			0.5-15.0			20 mm	own blank	
404.PO <sub>4</sub> <sup>3-</sup> Test(VM)_2			3.1-92.0	mg/l PO <sub>4</sub> <sup>3-</sup>		10 mm	own blank	
405.PO <sub>4</sub> <sup>3-</sup> Test(VM)_3			1.5-46.0			20 mm	own blank	
406.PO <sub>4</sub> <sup>3-</sup> Test(VM)_4			2.3-68.7	mg/l P <sub>2</sub> O <sub>5</sub>		10 mm	own blank	
407.PO <sub>4</sub> <sup>3-</sup> Test(VM)_5			1.1-34.4			20 mm	own blank	



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**Programming data for Spectrophotometer W-2100 for 486 test kits  
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W-2100 Program Number	Merck method name	Spectroquant Order No.	Measuring range	Unit	Reaction time min	Cells	Measuring against	Note
408.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_9	Phosphate Test (PMB)	1.00798.0001	1.0-85.0	mg/l PO <sub>4</sub> -P	5 + 0	10 mm	own blank	
409.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_10			3-261	mg/l PO <sub>4</sub> <sup>3-</sup>		10 mm	own blank	
410.PO <sub>4</sub> <sup>3-</sup> Test(PMB)_11			2-195	mg/l P <sub>2</sub> O <sub>5</sub>		10 mm	own blank	
411.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_12	(o)-Phosphate CT (PMB)	1.00616.0001	3.0-100.0	mg/l PO <sub>4</sub> -P	5 + 0	16 mm	cell with blank	
412.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_13						10 mm	own blank	
413.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_14			9-307	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
414.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_15						10 mm	own blank	
415.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_16			7-229	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
416.(o)-PO <sub>4</sub> <sup>3-</sup> CT(PMB)_17						10 mm	own blank	
417.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_12	Phosphate CT (PMB)	1.00673.0001	3.0-100.0	mg/l PO <sub>4</sub> -P	5 + 0	16 mm	cell with blank	
418.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_13						10 mm	own blank	
419.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_14			9-307	mg/l PO <sub>4</sub> <sup>3-</sup>		16 mm	cell with blank	
420.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_15						10 mm	own blank	
421.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_16			7-229	mg/l P <sub>2</sub> O <sub>5</sub>		16 mm	cell with blank	
422.PO <sub>4</sub> <sup>3-</sup> CT(PMB)_17						10 mm	own blank	
423.Pt-Co_0	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	Measure @ different wavelength
424.Pt-Co_1	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	
425.Pt-Co_2	Hazen colour number		0-1000	CU, HZ, Pt or Pt/Co	0 + 0	50 mm	dist. water	
426.Residual Hardness CT_0	Residual Hardness CT	1.14683.0001	0.50-5.00	mg/l Ca	10 + 0	16 mm	dist. water	instrument-specific calibration curve, built according to different instrument
427.Residual Hardness CT_1			1.25-12.50	mg/l CaCO <sub>3</sub>		16 mm	dist. water	
428.Residual Hardness CT_2			0.70-7.00	mg/l CaO		16 mm	dist. water	
429.Residual Hardness CT_3			0.070-0.700	°d		16 mm	dist. water	



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430.Residual Hardness CT_4	Residual Hardness CT	1.14683.0001	0.088-0.875	°e	10 + 0	16 mm	dist. water	instrument-specific calibration curve, built according to different instrument.
431.Residual Hardness CT_5			0.125-1.250	°f		16 mm	dist. water	
432.Residual Hardness CT_6			0.50-5.00	mg/l Ca		10 mm	dist. water	
433.Residual Hardness CT_7			1.25-12.50	mg/l CaCO <sub>3</sub>		10 mm	dist. water	
434.Residual Hardness CT_8			0.70-7.00	mg/l CaO		10 mm	dist. water	
435.Residual Hardness CT_9			0.070-0.700	°d		10 mm	dist. water	
436.Residual Hardness CT_10			0.088-0.875	°e		10 mm	dist. water	
437.Residual Hardness CT_11			0.125-1.250	°f		10 mm	dist. water	
438.Si Test_0	Silicate Test	1.14794.0001	0.10-5.00	mg/l Si	3 + 10	10 mm	dist. water	
439.Si Test_1			0.05-2.50			20 mm	dist. water	
440.Si Test_2			0.21-10.70	mg/l SiO <sub>2</sub>		10 mm	dist. water	
441.Si Test_3			0.11-5.35			20 mm	dist. water	
442.Si Test_4	Silicate Test	1.00857.0001	0.5-42	mg/l Si	2 + 2	10 mm	dist. water	
443.Si Test_5			5-420			10 mm	dist. water	
444.Si Test_6			1.1-90.0	mg/l SiO <sub>2</sub>		10 mm	dist. water	
445.Si Test_7			11-900			10 mm	dist. water	
446.Ag Test_0	Silver Test	1.14831.0001	0.50-3.00	mg/l Ag	5 + 0	10 mm	own blank	
447.Ag Test_1			0.25-1.50			20 mm	own blank	
448.Na_0	Sodium CT in nutrient solutions for fertilization	1.00885.0001	10-300	mg/l Na	1 + 0	16 mm	own blank	
449.Na_1						10 mm	own blank	



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450.SO <sub>4</sub> <sup>2-</sup> Test	Sulfate Test	1.14791.0001	25-300	mg/l SO <sup>2-</sup>	5 + 7	10 mm	own blank	instrument-specific calibration curve, built according to different instrument
451.S <sup>2-</sup> Test_0	Sulfide Test	1.14779.0001	0.10-1.50	mg/l S <sup>2-</sup>	1 + 0	10 mm	dist. water	
452.S <sup>2-</sup> Test_1			0.020-0.500			50 mm	dist. water	
453.SO <sub>3</sub> <sup>2-</sup> CT_0	Sulfite CT	1.14394.0001	1.0-13.0	mg/l SO <sup>2-</sup>	2 + 0	16 mm	cell with blank	
454.SO <sub>3</sub> <sup>2-</sup> CT_1						10 mm	own blank	
455.SO <sub>3</sub> <sup>2-</sup> CT_2			0.05-2.50 <sup>1)</sup>			50 mm	own blank	
456.SO <sub>3</sub> <sup>2-</sup> Test_0	Sulfite Test	1.01746.0001	1.0-45.0	mg/l SO <sup>2-</sup>	2 + 0	10 mm	own blank	
457.SO <sub>3</sub> <sup>2-</sup> Test_1			0.8-36.0			10 mm	own blank	
458.Surfactants (anionic) CT	Surfactants (anionic) CT	1.14697.0001	0.05-2.00	mg/l MBAS	10 + 0	16 mm	cell with blank	
459.Surfactants (cationic) CT	Surfactants (cationic) CT	1.01764.0001	0.05-1.50	mg/l CTAB	5 + 0	16 mm	cell with blank	
460.Surfactants (nonionic) CT	Surfactants (non-ionic) CT	1.01787.0001	0.10-7.50	mg/l Triton	2 + 0	16 mm	own blank	
				Triton X-100				
461.Tensides (anionic) CT	Surfactants (anionic) CT	1.14697.0001	0.05-2.00	mg/l MBAS	10 + 0	16 mm	cell with blank	
462.Tensides (cationic) CT	Surfactants (cationic) CT	1.01764.0001	0.05-1.50	mg/l CTAB	5 + 0	16 mm	cell with blank	
463. Tensides (nonionic) CT	Surfactants (non-ionic) CT	1.01787.0001	0.10-7.50	mg/l Triton	2 + 0	16 mm	own blank	
				TRITON X-100				
464.Sn CT_0	Tin CT	1.14622.0001	0.10-2.50	mg/l Sn	15 + 0	16 mm	dist. water	
465.Sn CT_1						10 mm	dist. water	
466.TOC CT_0	TOC CT	1.14878.0001	5.0-80.0	mg/l TOC	0 + 0	16 mm	own blank	
467.TOC CT_1	TOC CT	1.14879.0001	50-800	mg/l TOC	0 + 0	16 mm	own blank	



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468.Total Hardness CT_0	Total Hardness CT	1.00961.0001	5-215	mg/l Ca	3 + 0	16 mm	dist. water	
469.Total Hardness CT_1			13-538	mg/l CaCO <sub>3</sub>		16 mm	dist. water	
470.Total Hardness CT_2			7-301	mg/l CaO		16 mm	dist. water	
471.Total Hardness CT_3			0.7-30.1	°d		16 mm	dist. water	
472.Total Hardness CT_4			0.9-37.6	°e		16 mm	dist. water	
473.Total Hardness CT_5			1.3-53.8	°f		16 mm	dist. water	
474.Total Hardness CT_6			5-215	mg/l Ca		10 mm	dist. water	
475.Total Hardness CT_7			13-538	mg/l CaCO <sub>3</sub>		10 mm	dist. water	
476.Total Hardness CT_8			7-301	mg/l CaO		10 mm	dist. water	
477.Total Hardness CT_9			0.7-30.1	°d		10 mm	dist. water	
478.Total Hardness CT_10			0.9-37.6	°e		10 mm	dist. water	
479.Total Hardness CT_11	1.3-53.8	°f	10 mm	dist. water				
480.Volatile Organic Acids CT_0	Volatile Organic Acids CT	1.01763.0001	50-2800	mg/l HOAc	3 + 10	16 mm	own blank	
481.Volatile Organic Acids CT_1						10 mm	own blank	
482.Zn CT_0	Zinc CT	1.00861.0001	0.025-1.000	mg/l Zn	15 + 0	16 mm	own blank	
483.Zn CT_1						10 mm	own blank	
484.Zn Test	Zinc Test	1.14832.0001	0.05-2.50	mg/l Zn	3 + 2	10 mm	dist. water	
485.Zn CT_0	Zinc CT	1.14566.0001	0.20-5.00	mg/l Zn	15 + 0	16 mm	cell with blank	
486.Zn CT_1						10 mm	own blank	



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