

Basic Chemistry

Name	Line No.	Specimen 1			Specimen 2			Specimen 3			Specimen 4			Specimen 5			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	
Alanine Aminotransferase (ALT or SGPT)																	
Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	26 - 40	P 33.0	2.0	107 - 161	P 133.9	3.4	157 - 236	P 196.5	4.6	67 - 100	P 83.6	2.4	128 - 192	P 160.0	3.9	22
Alfa Wassermann & Alfa Wasser Axel/Alera	2	22 - 32	P 26.9	1.8	87 - 131	P 108.9	2.2	128 - 191	P 159.5	3.3	55 - 82	P 68.3	2.3	105 - 157	P 130.8	3.3	19
Beckman Coulter & Beck Coulter Unicel DXC	3	31 - 46	P 38.2	1.2	106 - 158	P 131.9	3.8	152 - 227	P 189.5	5.6	69 - 103	P 85.8	2.6	126 - 189	P 157.3	5.0	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	23 - 35	P 28.9	1.0	93 - 139	P 115.7	3.1	136 - 204	P 169.8	4.8	58 - 87	P 72.7	2.3	110 - 165	P 137.8	3.8	25
Beckman Olympus & Beckman AU 480	5	24 - 35	P 29.5	1.4	94 - 141	P 117.7	4.2	139 - 208	P 173.2	6.2	59 - 89	P 74.0	2.8	113 - 169	P 140.9	5.1	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	42 - 63	P 52.3	4.1	112 - 168	P 139.9	4.0	154 - 231	P 192.7	5.5	77 - 116	P 96.3	3.8	130 - 196	P 163.1	5.4	15
Ortho Vitros & Ortho Vitros not DT or ECI	7	42 - 63	P 52.1	4.8	111 - 167	P 138.8	4.3	153 - 230	P 191.6	4.5	77 - 115	P 95.9	3.4	130 - 195	P 162.1	4.4	19
Roche Cobas & Roche Cobas Integra	8	25 - 38	P 31.8	0.7	102 - 153	P 127.5	2.1	148 - 222	P 185.1	2.9	64 - 96	P 80.3	1.2	121 - 182	P 151.6	2.1	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	25 - 38	P 31.5	1.2	101 - 152	P 126.8	4.7	148 - 222	P 185.4	7.6	64 - 96	P 79.9	3.2	121 - 181	P 151.2	6.0	18
Siemens ALTI & Siemens Dimension EXL	10	29 - 43	P 35.9	1.6	110 - 164	P 137.0	2.3	158 - 238	P 198.0	3.1	70 - 105	P 87.1	1.9	131 - 196	P 163.4	3.1	45
Siemens ALTI & Siemens Dimension Xpand	11	28 - 43	P 35.5	1.3	109 - 164	P 136.5	4.0	158 - 237	P 197.7	4.9	70 - 105	P 87.3	2.9	130 - 196	P 163.1	4.1	11
Siemens Dimension & Siemens Dimension EXL	12	29 - 43	P 35.9	0.9	110 - 165	P 137.7	3.4	159 - 238	P 198.3	4.0	70 - 105	P 87.2	1.6	130 - 195	P 162.6	4.1	14
Initial Grouping by Reagent																	
Abbott	13	26 - 40	P 33.0	2.0	107 - 161	P 133.9	3.4	157 - 236	P 196.5	4.6	67 - 100	P 83.6	2.4	128 - 192	P 160.0	3.9	22
Alfa Wassermann	14	22 - 32	P 27.0	1.7	87 - 131	P 108.9	2.2	128 - 191	P 159.5	3.3	55 - 82	P 68.3	2.3	105 - 157	P 130.8	3.3	20
Beckman Coulter	15	28 - 41	P 34.4	4.4	100 - 151	P 125.6	8.3	146 - 218	P 182.0	10.6	64 - 97	P 80.5	6.5	120 - 180	P 150.0	9.8	23
Beckman Olympus	16	23 - 35	P 29.2	1.2	93 - 140	P 116.5	3.9	137 - 205	P 171.1	5.8	59 - 88	P 73.3	2.6	111 - 167	P 139.1	4.7	50
Carolina	17	27 - 41	P 34.2	4.2	100 - 149	P 124.5	5.6	146 - 219	P 182.8	8.7	64 - 96	P 79.7	3.3	121 - 181	P 151.1	7.8	10
Ortho Vitros	18	41 - 62	P 51.6	4.4	111 - 167	P 138.9	4.2	153 - 230	P 191.5	5.0	76 - 115	P 95.5	3.8	129 - 194	P 161.8	4.9	41
Pointe Scientific	19	29 - 44	P 36.3	2.9	109 - 163	P 135.8	7.5	161 - 241	P 200.8	11.3	69 - 104	P 86.6	5.4	131 - 197	P 164.0	8.7	10
Roche Cobas	20	25 - 38	P 31.7	1.0	102 - 153	P 127.2	3.6	148 - 223	P 185.6	5.8	64 - 96	P 80.1	2.4	121 - 182	P 151.7	4.5	36
Siemens ALTI	21	29 - 43	P 36.0	1.6	110 - 165	P 137.1	3.0	159 - 238	P 198.3	3.9	70 - 105	P 87.2	2.4	131 - 196	P 163.5	3.5	63
Siemens Dimension	22	29 - 44	P 36.5	1.8	110 - 165	P 137.4	3.9	159 - 238	P 198.4	4.7	70 - 105	P 87.8	3.1	130 - 196	P 163.1	4.9	23
Initial Grouping by Sensitivity or Principle																	
Other no P5P	23	25 - 37	P 30.7	4.6	92 - 139	P 115.5	7.8	135 - 202	P 168.7	11.1	59 - 88	P 73.2	5.5	111 - 166	P 138.7	9.8	42
Standardized methods	24	26 - 38	P 32.0	3.9	100 - 150	P 125.1	10.6	147 - 220	P 183.4	15.1	63 - 95	P 79.3	7.2	120 - 180	P 149.8	12.6	132
Other P5P	25	30 - 45	P 37.3	8.6	102 - 153	P 127.1	6.7	150 - 225	P 187.9	11.0	67 - 101	P 83.8	6.6	122 - 183	P 152.2	12.7	10
Vitros and related methods	26	41 - 62	P 51.6	4.4	111 - 167	P 138.9	4.2	153 - 230	P 191.5	5.0	76 - 115	P 95.5	3.8	129 - 194	P 161.8	4.9	41
Roche and related	27	25 - 38	P 31.7	1.0	102 - 153	P 127.2	3.6	148 - 223	P 185.6	5.8	64 - 96	P 80.1	2.4	121 - 182	P 151.7	4.5	36
Siemens and related	28	29 - 43	P 36.1	1.8	110 - 165	P 137.2	3.7	159 - 238	P 198.4	4.7	70 - 105	P 87.4	2.9	131 - 196	P 163.5	4.4	88
Total Population																	
Whole Population	29	28 - 42	P 35.3	7.3	103 - 155	P 128.9	10.7	149 - 224	P 186.7	14.1	66 - 99	P 82.7	8.3	123 - 184	P 153.7	12.3	351
Albumin																	
Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	2.0 - 2.4	P 2.2	0.04	3.2 - 3.9	P 3.55	0.05	3.9 - 4.8	P 4.35	0.05	2.6 - 3.2	P 2.9	0.0	3.5 - 4.3	P 3.89	0.03	12
Alfa Wassermann & Alfa Wasser Axel/Alera	2	2.1 - 2.5	P 2.3	0.08	3.3 - 4.0	P 3.62	0.1	4.0 - 4.9	P 4.41	0.15	2.7 - 3.3	P 3.0	0.08	3.6 - 4.4	P 3.98	0.12	17
Beckman BCP & Beck Coulter Unicel DXC	3	1.8 - 2.3	P 2.05	0.05	2.8 - 3.4	P 3.11	0.08	3.4 - 4.1	P 3.75	0.08	2.4 - 2.9	P 2.62	0.04	3.1 - 3.7	P 3.39	0.09	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	1.9 - 2.3	P 2.09	0.04	3.2 - 3.9	P 3.52	0.09	3.9 - 4.8	P 4.35	0.11	2.5 - 3.1	P 2.82	0.08	3.5 - 4.3	P 3.89	0.1	24
Beckman Olympus & Beckman AU 480	5	1.9 - 2.4	P 2.16	0.08	3.2 - 3.9	P 3.59	0.1	4.0 - 4.9	P 4.43	0.12	2.6 - 3.2	P 2.9	0.09	3.6 - 4.4	P 3.96	0.12	25
Ortho Vitros & Ortho Vitros 3600, 5600	6	1.7 - 2.0	P 1.84	0.08	2.9 - 3.6	P 3.26	0.13	3.8 - 4.6	P 4.21	0.19	2.3 - 2.8	P 2.57	0.09	3.3 - 4.1	P 3.71	0.14	20
Ortho Vitros & Ortho Vitros not DT or ECI	7	1.7 - 2.1	P 1.87	0.05	3.0 - 3.7	P 3.33	0.09	3.9 - 4.7	P 4.3	0.14	2.4 - 2.9	P 2.64	0.05	3.4 - 4.2	P 3.81	0.12	21
Roche Cobas BCG, gen II & Roche e/c, 1XX, X000, Elec series	8	2.1 - 2.5	P 2.29	0.08	3.4 - 4.1	P 3.76	0.11	4.2 - 5.1	P 4.67	0.13	2.8 - 3.4	P 3.06	0.12	3.7 - 4.6	P 4.16	0.12	10
Siemens BCP & Siemens Dimension EXL	9	1.7 - 2.1	P 1.88	0.06	2.6 - 3.2	P 2.88	0.07	3.2 - 3.9	P 3.51	0.08	2.2 - 2.6	P 2.39	0.06	2.8 - 3.5	P 3.15	0.07	59
Siemens BCP & Siemens Dimension Xpand	10	1.7 - 2.1	P 1.93	0.06	2.6 - 3.2	P 2.91	0.08	3.2 - 3.9	P 3.57	0.08	2.2 - 2.6	P 2.39	0.06	2.8 - 3.5	P 3.15	0.08	18
Initial Grouping by Reagent																	
Abbott Architect	11	2.0 - 2.4	P 2.2	0.04	3.2 - 3.9	P 3.55	0.05	3.9 - 4.8	P 4.35	0.05	2.6 - 3.2	P 2.9	0.0	3.5 - 4.3	P 3.89	0.03	12

Alfa Wassermann	12	2.1 - 2.5	P 2.3	0.08	3.3 - 4.0	P 3.62	0.1	4.0 - 4.9	P 4.42	0.14	2.7 - 3.3	P 3.0	0.07	3.6 - 4.4	P 3.98	0.12	18
Beckman BCG	13	1.9 - 2.3	P 2.1	0.07	3.2 - 3.9	P 3.51	0.24	3.9 - 4.8	P 4.34	0.31	2.5 - 3.1	P 2.82	0.15	3.5 - 4.2	P 3.85	0.22	11
Beckman BCP	14	1.8 - 2.3	P 2.05	0.05	2.8 - 3.4	P 3.11	0.08	3.4 - 4.1	P 3.75	0.08	2.4 - 2.9	P 2.62	0.04	3.1 - 3.7	P 3.39	0.09	11
Beckman Olympus	15	1.9 - 2.3	P 2.12	0.07	3.2 - 3.9	P 3.55	0.1	4.0 - 4.8	P 4.39	0.12	2.6 - 3.1	P 2.86	0.09	3.5 - 4.3	P 3.92	0.11	51
Ortho Vitros	16	1.7 - 2.0	P 1.86	0.07	3.0 - 3.6	P 3.3	0.13	3.8 - 4.7	P 4.26	0.2	2.3 - 2.9	P 2.6	0.08	3.4 - 4.1	P 3.76	0.16	49
Pointe Scientific	17	2.1 - 2.6	P 2.34	0.12	3.5 - 4.2	P 3.85	0.17	4.2 - 5.2	P 4.71	0.27	2.8 - 3.4	P 3.09	0.16	3.8 - 4.6	P 4.2	0.19	10
Roche Cobas	18	2.1 - 2.5	P 2.29	0.06	3.4 - 4.1	P 3.77	0.07	4.2 - 5.1	P 4.64	0.07	2.8 - 3.4	P 3.06	0.07	3.7 - 4.5	P 4.13	0.08	16
Roche Cobas BCG, gen II	19	2.1 - 2.5	P 2.28	0.09	3.4 - 4.1	P 3.77	0.11	4.2 - 5.1	P 4.67	0.14	2.8 - 3.4	P 3.07	0.12	3.8 - 4.6	P 4.17	0.13	19
Siemens BCP	20	1.7 - 2.1	P 1.9	0.06	2.6 - 3.2	P 2.89	0.07	3.2 - 3.9	P 3.54	0.09	2.2 - 2.6	P 2.39	0.07	2.8 - 3.5	P 3.16	0.08	84
Initial Grouping bySensitivityor Principle																	
BCP-bromcresol purple	21	1.7 - 2.1	P 1.92	0.08	2.6 - 3.2	P 2.91	0.1	3.2 - 3.9	P 3.55	0.12	2.2 - 2.7	P 2.42	0.1	2.9 - 3.5	P 3.18	0.11	106
BCG-rapid (60 sec or less)	22	1.8 - 2.2	P 2.02	0.15	3.1 - 3.8	P 3.45	0.18	3.9 - 4.8	P 4.32	0.19	2.5 - 3.0	P 2.76	0.16	3.5 - 4.2	P 3.84	0.16	126
BCG-bromcresol green	23	2.1 - 2.5	P 2.29	0.09	3.3 - 4.0	P 3.68	0.16	4.1 - 5.0	P 4.52	0.23	2.7 - 3.3	P 3.02	0.12	3.6 - 4.5	P 4.05	0.19	110
Total Population																	
Whole Population	24	1.9 - 2.3	P 2.08	0.19	3.0 - 3.7	P 3.36	0.35	3.7 - 4.6	P 4.15	0.45	2.5 - 3.0	P 2.74	0.27	3.3 - 4.1	P 3.71	0.39	344

Alkaline Phosphatase

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	40 - 74	P 56.6	3.2	147 - 274	P 210.7	11.5	211 - 392	P 301.9	17.0	93 - 173	P 133.3	7.0	173 - 322	P 247.7	13.7	20
Alfa Wassermann & Alfa Wasser Axel/Alera	2	39 - 73	P 56.4	3.9	143 - 265	P 203.8	11.8	205 - 381	P 293.1	17.7	92 - 170	P 130.9	7.8	168 - 312	P 239.9	15.5	18
Beckman Coulter & Beck Coult Unicel DXC	3	35 - 65	P 49.8	2.3	128 - 238	P 183.4	8.2	186 - 345	P 265.0	12.3	82 - 152	P 116.6	6.1	151 - 281	P 216.4	11.1	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	36 - 67	P 51.4	4.6	136 - 253	P 194.6	17.1	196 - 364	P 280.3	26.2	86 - 160	P 123.3	11.3	161 - 299	P 230.0	21.4	22
Beckman Olympus & Beckman AU 480	5	36 - 66	P 50.9	3.4	134 - 249	P 191.4	13.3	192 - 357	P 274.8	17.9	85 - 158	P 121.2	8.2	158 - 293	P 225.7	15.2	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	34 - 63	P 48.5	2.1	110 - 203	P 156.5	6.0	135 - 251	P 193.3	5.7	76 - 141	P 108.4	4.0	123 - 227	P 175.0	6.2	20
Ortho Vitros & Ortho Vitros not DT or ECi	7	35 - 65	P 49.9	3.4	109 - 202	P 155.3	6.8	134 - 248	P 190.7	10.3	76 - 142	P 109.1	5.6	122 - 227	P 174.3	8.6	21
Roche IFCC Gen. 2 & Roche Cobas Integra	8	40 - 74	P 57.1	2.6	148 - 275	P 211.3	9.2	212 - 393	P 302.3	14.7	95 - 176	P 135.1	6.8	174 - 324	P 249.1	13.7	10
Roche IFCC Gen. 2 & Roche e/c, 1XX, X000, Elec series	9	38 - 71	P 54.3	2.6	141 - 262	P 201.7	9.1	206 - 383	P 294.4	8.5	90 - 167	P 128.7	6.3	167 - 310	P 238.3	10.2	15
Siemens Dimension & Siemens Dimension EXL	10	42 - 78	P 59.9	3.5	159 - 295	P 227.1	9.0	230 - 427	P 328.3	12.1	101 - 188	P 144.6	5.5	188 - 350	P 269.1	9.6	39
Siemens Dimension & Siemens Dimension Xpand	11	42 - 77	P 59.3	3.6	157 - 292	P 224.4	7.3	227 - 422	P 324.6	11.6	100 - 186	P 142.9	5.3	187 - 348	P 267.5	9.6	12
Siemens Dimension IFCC & Siemens Dimension EXL	12	41 - 77	P 59.2	2.5	158 - 293	P 225.2	8.3	228 - 424	P 325.8	11.8	100 - 186	P 143.3	5.6	188 - 349	P 268.3	9.6	20

Initial Grouping byReagent

Abbott	13	40 - 74	P 56.6	3.2	147 - 274	P 210.7	11.5	211 - 392	P 301.9	17.0	93 - 173	P 133.3	7.0	173 - 322	P 247.7	13.7	20
Alfa Wassermann	14	39 - 73	P 56.1	4.0	142 - 264	P 202.7	12.3	204 - 379	P 291.8	18.0	91 - 170	P 130.4	7.8	167 - 310	P 238.7	16.0	19
Beckman Coulter	15	35 - 64	P 49.6	2.9	130 - 242	P 185.8	10.9	188 - 349	P 268.1	16.1	82 - 153	P 117.8	7.1	154 - 285	P 219.3	14.1	23
Beckman Olympus	16	36 - 67	P 51.3	4.0	135 - 251	P 193.4	15.0	195 - 361	P 278.0	22.1	86 - 159	P 122.4	9.7	160 - 297	P 228.3	18.3	46
Carolina	17	34 - 63	P 48.5	4.4	125 - 232	P 178.1	16.6	179 - 332	P 255.5	24.2	81 - 150	P 115.1	11.3	148 - 275	P 211.7	20.7	11
Ortho Vitros	18	35 - 64	P 49.6	2.8	109 - 203	P 156.2	6.2	134 - 250	P 192.1	8.1	76 - 142	P 109.1	4.8	123 - 228	P 175.1	7.3	48
Pointe Scientific	19	41 - 76	P 58.1	7.8	149 - 277	P 212.7	25.3	214 - 398	P 306.4	35.1	95 - 177	P 136.4	15.7	176 - 326	P 251.1	27.3	11
Roche IFCC Gen. 2	20	39 - 73	P 55.8	3.1	145 - 268	P 206.5	10.9	209 - 389	P 299.2	13.7	92 - 172	P 132.1	7.4	171 - 317	P 244.0	13.3	31
Siemens Dimension	21	42 - 78	P 59.9	3.4	159 - 294	P 226.5	8.4	229 - 425	P 327.2	11.7	101 - 188	P 144.3	5.3	188 - 349	P 268.6	9.3	56
Siemens Dimension IFCC	22	42 - 78	P 59.7	2.4	158 - 294	P 225.9	7.3	228 - 424	P 326.2	10.3	101 - 187	P 143.8	5.1	188 - 349	P 268.4	8.4	28

Initial Grouping bySensitivityor Principle

IFCC Standardized	23	38 - 70	P 53.7	5.8	139 - 257	P 198.0	19.0	201 - 373	P 286.7	30.1	88 - 164	P 126.3	11.9	163 - 303	P 233.3	22.7	167
Vitros and related methods	24	35 - 64	P 49.6	2.8	109 - 203	P 156.2	6.2	134 - 250	P 192.1	8.1	76 - 142	P 109.1	4.8	123 - 228	P 175.1	7.3	48
IFCC Gen 2	25	40 - 75	P 57.6	3.4	151 - 280	P 215.7	13.5	219 - 406	P 312.2	18.2	96 - 179	P 137.6	8.7	179 - 332	P 255.6	16.6	59
Siemens and related	26	42 - 78	P 59.8	3.4	158 - 293	P 225.7	8.8	228 - 424	P 326.1	12.5	101 - 187	P 143.8	5.6	187 - 348	P 267.6	10.1	59

Total Population

Whole Population	27	38 - 71	P 54.6	6.5	140 - 259	P 199.5	26.2	198 - 368	P 283.1	47.8	90 - 167	P 128.4	14.7	164 - 304	P 234.2	33.6	342
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Aspartate Aminotransferase (AST or SGOT)

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	104 - 156	P 130.2	2.2	163 - 244	P 203.6	4.4	201 - 302	P 251.8	4.7	135 - 202	P 168.2	3.2	181 - 272	P 226.6	4.9	17
Alfa Wassermann & Alfa Wasser Axel/Alera	2	97 - 145	P 120.8	3.5	151 - 226	P 188.2	3.8	186 - 278	P 231.9	5.8	125 - 187	P 155.9	4.0	167 - 250	P 208.2	4.5	19
Beckman Coulter & Beck Coult Unicel DXC	3	104 - 156	P 129.9	3.8	161 - 241	P 201.0	7.1	198 - 297	P 247.8	7.9	134 - 201	P 167.5	5.7	180 - 269	P 224.5	8.1	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	92 - 137	P 114.5	3.2	143 - 215	P 179.2	5.0	177 - 265	P 220.7	7.1	118 - 177	P 147.6	4.4	159 - 239	P 199.2	6.1	25
Beckman Olympus & Beckman AU 480	5	93 - 139	P 115.8	4.1	145 - 217	P 180.8	6.9	179 - 268	P 223.6	8.7	120 - 180	P 150.0	6.3	160 - 240	P 200.0	7.8	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	101 - 152	P 126.3	4.0	171 - 257	P 213.8	6.4	221 - 331	P 276.1	9.9	135 - 203	P 168.9	5.7	192 - 288	P 240.4	8.2	20
Ortho Vitros & Ortho Vitros not DT or ECi	7	101 - 151	P 126.0	4.1	172 - 258	P 214.9	5.5	222 - 333	P 277.3	9.6	136 - 204	P 169.8	5.4	195 - 293	P 244.3	5.6	21
Roche Cobas & Roche Cobas Integra	8	107 - 160	P 133.4	3.0	167 - 250	P 208.2	5.3	205 - 307	P 255.8	6.0	138 - 207	P 172.5	3.6	185 - 277	P 230.8	5.7	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	105 - 158	P 131.8	3.7	165 - 248	P 206.8	7.0	205 - 307	P 256.1	9.3	136 - 205	P 170.6	5.5	183 - 275	P 229.2	8.7	18
Siemens Dimension & Siemens Dimension EXL	10	102 - 153	P 127.1	3.6	165 - 247	P 206.2	5.5	206 - 309	P 257.4	7.2	134 - 202	P 168.0	4.8	183 - 275	P 228.8	6.0	50

Siemens Dimension & Siemens Dimension Xpand	11	104 - 156	P 129.7	3.5	168 - 251	P 209.5	5.5	208 - 312	P 260.3	6.8	136 - 205	P 170.6	5.0	185 - 278	P 231.5	6.1	17
Initial Grouping by Reagent																	
Abbott Architect	12	104 - 156	P 130.2	2.2	163 - 244	P 203.6	4.4	201 - 302	P 251.8	4.7	135 - 202	P 168.2	3.2	181 - 272	P 226.6	4.9	17
Alfa Wassermann	13	97 - 145	P 120.8	3.4	151 - 226	P 188.3	3.7	186 - 278	P 232.0	5.7	125 - 187	P 156.1	4.0	167 - 250	P 208.3	4.4	20
Beckman Coulter	14	98 - 147	P 122.7	9.0	152 - 228	P 190.4	13.8	188 - 282	P 235.3	16.4	126 - 190	P 158.1	12.0	170 - 255	P 212.3	15.8	23
Beckman Olympus	15	92 - 138	P 115.4	3.8	144 - 216	P 180.2	6.0	178 - 267	P 222.3	7.9	119 - 179	P 148.9	5.4	160 - 240	P 199.8	6.9	50
Carolina	16	110 - 164	P 137.0	6.9	172 - 258	P 214.8	12.2	213 - 319	P 266.1	15.4	142 - 213	P 177.9	11.0	192 - 288	P 240.2	14.5	12
Ortho Vitros	17	101 - 151	P 125.8	4.2	171 - 256	P 213.5	6.9	221 - 331	P 275.9	10.1	135 - 203	P 168.9	5.6	194 - 290	P 241.9	7.8	48
Roche Cobas	18	106 - 159	P 132.4	3.7	166 - 249	P 207.2	6.1	205 - 307	P 256.0	8.1	137 - 206	P 171.3	4.9	184 - 276	P 229.6	7.6	36
Siemens Dimension	19	102 - 153	P 127.9	3.7	166 - 249	P 207.2	5.6	207 - 310	P 258.4	7.0	135 - 203	P 168.8	4.9	184 - 276	P 229.7	6.0	74
Siemens P5P	20	101 - 152	P 126.3	3.8	164 - 246	P 205.2	5.1	204 - 306	P 254.6	7.5	133 - 200	P 166.3	4.5	182 - 273	P 227.3	6.7	10
Synermed	21	114 - 171	P 142.3	10.0	185 - 277	P 231.1	11.9	224 - 337	P 280.6	11.7	150 - 225	P 187.6	10.9	201 - 301	P 251.2	12.5	10
Initial Grouping by Sensitivity or Principle																	
Other no P5P	22	103 - 154	P 128.5	8.7	161 - 242	P 201.7	14.9	198 - 297	P 247.9	18.2	133 - 199	P 166.2	12.0	179 - 269	P 224.0	17.2	44
Standardized methods	23	98 - 147	P 122.3	9.6	152 - 229	P 190.5	15.9	188 - 282	P 234.7	20.6	126 - 190	P 158.0	12.9	169 - 254	P 211.4	17.7	127
Vitros and related	24	101 - 151	P 125.8	4.2	171 - 256	P 213.5	6.9	221 - 331	P 275.9	10.1	135 - 203	P 168.9	5.6	194 - 290	P 241.9	7.8	48
Roche and related	25	106 - 159	P 132.4	3.7	166 - 249	P 207.2	6.1	205 - 307	P 256.0	8.1	137 - 206	P 171.3	4.9	184 - 276	P 229.6	7.6	36
Siemens and related	26	102 - 153	P 127.8	4.1	166 - 248	P 207.0	5.9	206 - 310	P 258.1	7.6	135 - 202	P 168.6	5.2	184 - 276	P 229.6	6.8	86
Other P5P	27	114 - 171	P 142.1	9.3	185 - 277	P 230.8	11.3	225 - 337	P 281.1	11.3	150 - 225	P 187.9	10.4	201 - 302	P 251.6	12.0	11
Total Population																	
Whole Population	28	101 - 152	P 126.3	8.4	161 - 242	P 201.8	15.7	201 - 301	P 251.1	21.5	132 - 198	P 165.2	11.8	180 - 269	P 224.5	17.9	354

Bicarbonate (Total CO2)

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	8 - 16	C 12.0	1.5	16 - 24	C 19.6	2.0	20 - 30	P 24.7	2.0	12 - 20	C 15.8	1.5	17 - 25	P 21.1	2.1	18
Alfa Wassermann & Alfa Wasser Axel/Alera	2	10 - 18	C 13.8	1.1	18 - 27	P 22.3	1.8	22 - 34	P 28.1	2.1	14 - 22	C 17.7	1.7	20 - 30	P 24.8	2.3	17
Beckman Coulter & Beck Coult Unicel DXC	3	9 - 17	C 13.3	0.8	16 - 24	P 20.3	2.8	21 - 32	P 26.3	1.2	14 - 22	C 17.8	1.0	18 - 28	P 23.0	1.5	12
Beckman Olympus & Beck Olym AU 400/600/5400	4	8 - 16	C 12.3	1.5	17 - 25	P 20.7	2.3	21 - 32	P 26.7	2.6	12 - 20	C 16.4	1.8	18 - 27	P 22.7	2.5	25
Beckman Olympus & Beckman AU 480	5	9 - 17	C 13.3	1.9	18 - 27	P 22.3	1.6	22 - 33	P 27.4	1.8	13 - 21	C 17.4	1.5	19 - 28	P 23.7	1.8	23
Ortho Vitros & Ortho Vitros 3600, 5600	6	8 - 16	C 11.8	1.2	15 - 23	C 18.8	1.3	19 - 28	P 23.4	1.5	11 - 19	C 14.8	1.1	16 - 24	P 20.3	1.5	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	8 - 16	C 11.6	1.3	15 - 23	C 18.5	1.3	18 - 27	P 22.3	1.9	10 - 18	C 14.0	1.9	15 - 23	C 18.5	1.9	19
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	8 - 16	C 11.7	1.0	15 - 23	C 19.3	1.6	19 - 29	P 24.0	2.0	11 - 19	C 14.9	1.1	16 - 24	P 20.4	1.8	16
Siemens ECO2 & Siemens Dimension EXL	9	11 - 19	C 14.8	1.8	19 - 28	P 23.6	1.8	23 - 34	P 28.7	2.1	15 - 23	C 18.8	1.6	20 - 30	P 25.2	2.0	59
Siemens ECO2 & Siemens Dimension Xpand	10	11 - 19	C 15.4	1.0	20 - 29	P 24.4	1.1	24 - 35	P 29.4	1.2	15 - 23	C 19.4	1.5	21 - 32	P 26.4	0.8	17
Initial Grouping by Reagent																	
Abbott Architect	11	8 - 16	C 12.0	1.5	16 - 24	C 19.6	2.0	20 - 30	P 24.7	2.0	12 - 20	C 15.8	1.5	17 - 25	P 21.1	2.1	18
Alfa Wassermann	12	10 - 18	C 13.9	1.2	18 - 27	P 22.5	1.9	23 - 34	P 28.3	2.2	14 - 22	C 17.9	1.9	20 - 30	P 25.0	2.4	18
Beckman Coulter	13	9 - 17	C 13.0	1.7	17 - 25	P 20.8	3.0	21 - 32	P 26.6	2.7	13 - 21	C 17.2	1.9	18 - 28	P 23.0	2.3	23
Beckman Olympus	14	9 - 17	C 12.7	1.7	17 - 26	P 21.4	2.1	22 - 32	P 26.9	2.2	13 - 21	C 16.8	1.7	18 - 28	P 23.1	2.2	51
Carolina	15	10 - 18	C 14.2	1.7	18 - 27	P 22.5	2.1	22 - 33	P 27.2	2.4	14 - 22	C 17.7	1.7	19 - 29	P 23.8	2.0	13
Ortho Vitros	16	8 - 16	C 11.9	1.4	15 - 23	C 18.7	1.2	18 - 27	P 22.9	1.7	10 - 18	C 14.4	1.5	15 - 23	C 19.4	1.9	44
Roche Cobas	17	8 - 16	C 12.3	1.4	16 - 24	C 19.8	1.6	20 - 30	P 24.7	2.0	11 - 19	C 15.4	1.3	17 - 25	P 20.9	2.0	31
Sekisui	18	10 - 18	C 13.6	1.7	17 - 25	P 21.0	1.4	21 - 31	P 26.1	1.9	13 - 21	C 16.9	2.0	18 - 27	P 22.1	1.7	12
Siemens ECO2	19	11 - 19	C 14.9	1.7	19 - 28	P 23.7	1.8	23 - 35	P 28.8	2.1	15 - 23	C 18.9	1.6	20 - 30	P 25.3	1.9	83
Initial Grouping by Sensitivity or Principle																	
UV/kinetic (rate) methods	20	9 - 17	C 12.8	1.7	16 - 24	P 20.4	1.8	20 - 30	P 25.2	2.0	12 - 20	C 16.3	2.0	18 - 26	P 21.9	2.5	42
Diluted ISE results	21	9 - 17	C 12.9	1.9	17 - 25	P 20.8	3.1	21 - 31	P 26.0	2.8	13 - 21	C 17.0	2.1	18 - 27	P 22.5	2.5	47
UV/bichromatic methods	22	9 - 17	C 13.0	1.7	17 - 26	P 21.6	2.2	22 - 33	P 27.1	2.4	13 - 21	C 17.0	1.8	19 - 28	P 23.5	2.4	76
UV/uncorrected methods	23	10 - 18	C 13.6	2.0	17 - 25	P 21.2	2.8	21 - 31	P 26.1	2.8	13 - 21	C 17.0	2.0	18 - 27	P 22.6	2.3	41
Undiluted ISE results	24	8 - 16	C 11.9	1.4	15 - 23	C 18.7	1.2	18 - 27	P 22.9	1.7	10 - 18	C 14.4	1.5	15 - 23	C 19.4	1.9	44
All other methods	25	11 - 19	C 14.9	1.7	19 - 28	P 23.7	1.8	23 - 35	P 28.8	2.1	15 - 23	C 18.9	1.6	20 - 30	P 25.3	1.9	83
Total Population																	
Whole Population	26	9 - 17	C 13.4	2.0	17 - 26	P 21.4	2.7	21 - 32	P 26.4	3.0	13 - 21	C 17.0	2.3	18 - 27	P 22.9	2.9	337

Bilirubin, Total

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	0.2 - 1.0	C 0.63	0.06	1.7 - 2.5	P 2.07	0.09	2.3 - 3.4	P 2.87	0.18	1.1 - 1.9	C 1.46	0.15	2.0 - 3.0	P 2.5	0.13	19
Alfa Wassermann & Alfa Wasser Axel/Alera	2	0.4 - 1.2	C 0.75	0.09	1.9 - 2.9	P 2.43	0.22	2.8 - 4.2	P 3.51	0.32	1.2 - 2.0	C 1.63	0.16	2.4 - 3.6	P 3.03	0.32	19
Beckman Coulter & Beck Coult Unicel DXC	3	0.4 - 1.2	C 0.76	0.14	1.8 - 2.8	P 2.31	0.18	2.8 - 4.1	P 3.44	0.43	1.3 - 2.1	C 1.74	0.26	2.4 - 3.6	P 3.03	0.3	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	0.3 - 1.1	C 0.71	0.07	1.9 - 2.8	P 2.32	0.15	2.6 - 3.9	P 3.23	0.23	1.2 - 2.0	C 1.58	0.11	2.3 - 3.4	P 2.86	0.16	25
Beckman Olympus & Beckman AU 480	5	0.3 - 1.1	C 0.7	0.05	1.9 - 2.8	P 2.32	0.12	2.6 - 3.9	P 3.21	0.23	1.2 - 2.0	C 1.57	0.12	2.3 - 3.4	P 2.84	0.15	22

Ortho Vitros & Ortho Vitros 3600, 5600	6	0.1 - 0.9	C 0.5	0.09	1.7 - 2.6	P 2.14	0.15	2.4 - 3.7	P 3.05	0.19	1.0 - 1.8	C 1.38	0.1	2.1 - 3.2	P 2.66	0.19	20
Ortho Vitros & Ortho Vitros not DT or ECi	7	0.2 - 1.0	C 0.56	0.09	1.8 - 2.6	P 2.19	0.16	2.5 - 3.7	P 3.09	0.22	1.0 - 1.8	C 1.41	0.15	2.2 - 3.3	P 2.74	0.2	20
Siemens Dimension & Siemens Dimension EXL	8	0.2 - 1.0	C 0.57	0.07	1.6 - 2.4	C 1.99	0.16	2.2 - 3.3	P 2.77	0.27	0.9 - 1.7	C 1.32	0.12	2.0 - 3.0	P 2.5	0.22	56
Siemens Dimension & Siemens Dimension Xpand	9	0.1 - 0.9	C 0.54	0.07	1.5 - 2.3	C 1.88	0.2	2.1 - 3.2	P 2.66	0.29	0.9 - 1.7	C 1.31	0.13	1.9 - 2.9	P 2.38	0.22	18
Initial Grouping by Reagent																	
Abbott Architect	10	0.2 - 1.0	C 0.63	0.06	1.7 - 2.5	P 2.07	0.09	2.3 - 3.4	P 2.87	0.18	1.1 - 1.9	C 1.46	0.15	2.0 - 3.0	P 2.5	0.13	19
Alfa Wassermann	11	0.4 - 1.2	C 0.75	0.09	1.9 - 2.9	P 2.43	0.21	2.8 - 4.2	P 3.51	0.32	1.2 - 2.0	C 1.64	0.16	2.4 - 3.6	P 3.03	0.31	20
Beckman Coulter	12	0.3 - 1.1	C 0.72	0.12	1.8 - 2.7	P 2.29	0.15	2.7 - 4.0	P 3.33	0.37	1.3 - 2.1	C 1.66	0.23	2.3 - 3.5	P 2.91	0.28	23
Beckman Olympus	13	0.3 - 1.1	C 0.7	0.06	1.9 - 2.8	P 2.32	0.13	2.6 - 3.9	P 3.22	0.23	1.2 - 2.0	C 1.58	0.11	2.3 - 3.4	P 2.85	0.15	50
Carolina	14	0.3 - 1.1	C 0.73	0.13	1.8 - 2.7	P 2.21	0.27	2.5 - 3.7	P 3.07	0.37	1.2 - 2.0	C 1.57	0.17	2.2 - 3.3	P 2.78	0.28	11
Ortho Vitros	15	0.1 - 0.9	C 0.51	0.1	1.7 - 2.6	P 2.17	0.15	2.4 - 3.7	P 3.05	0.29	1.0 - 1.8	C 1.38	0.14	2.1 - 3.2	P 2.67	0.26	48
Pointe Scientific	16	0.2 - 1.0	C 0.61	0.12	1.7 - 2.5	P 2.08	0.26	2.5 - 3.8	P 3.17	0.45	1.0 - 1.8	C 1.39	0.18	2.2 - 3.3	P 2.71	0.43	12
Roche Cobas	17	0.1 - 0.9	C 0.54	0.06	1.5 - 2.3	C 1.91	0.14	2.2 - 3.3	P 2.76	0.23	0.9 - 1.7	C 1.26	0.13	1.9 - 2.9	P 2.38	0.21	21
Roche Cobas BLTS	18	0.2 - 1.0	C 0.58	0.05	1.5 - 2.4	C 1.95	0.18	2.3 - 3.4	P 2.86	0.24	0.9 - 1.7	C 1.3	0.09	1.9 - 2.9	P 2.43	0.19	15
Siemens Dimension	19	0.2 - 1.0	C 0.56	0.07	1.6 - 2.4	C 1.96	0.17	2.2 - 3.3	P 2.74	0.27	0.9 - 1.7	C 1.32	0.12	2.0 - 3.0	P 2.47	0.21	82
Initial Grouping by Sensitivity or Principle																	
Oxidation	20	0.3 - 1.1	C 0.72	0.08	1.8 - 2.7	P 2.26	0.32	2.6 - 3.9	P 3.25	0.44	1.1 - 1.9	C 1.52	0.19	2.3 - 3.4	P 2.82	0.36	13
Diazonium ion	21	0.2 - 1.0	C 0.62	0.12	1.8 - 2.7	P 2.21	0.19	2.5 - 3.7	P 3.07	0.31	1.1 - 1.9	C 1.47	0.17	2.2 - 3.3	P 2.71	0.27	137
Diazo/DMSO	22	0.3 - 1.1	C 0.69	0.12	1.8 - 2.7	P 2.29	0.27	2.7 - 4.0	P 3.35	0.4	1.1 - 1.9	C 1.53	0.2	2.3 - 3.5	P 2.89	0.38	35
Diazo/caffeine-benzoate	23	0.2 - 1.0	C 0.59	0.1	1.6 - 2.4	P 2.02	0.22	2.3 - 3.4	P 2.86	0.38	1.0 - 1.8	C 1.38	0.21	2.0 - 3.1	P 2.55	0.3	114
Diazo/surfactant	24	0.2 - 1.0	C 0.58	0.09	1.6 - 2.4	C 1.97	0.18	2.3 - 3.4	P 2.83	0.35	0.9 - 1.7	C 1.29	0.15	2.0 - 2.9	P 2.44	0.3	46
Total Population																	
Whole Population	25	0.2 - 1.0	C 0.62	0.12	1.7 - 2.6	P 2.13	0.25	2.4 - 3.6	P 3.01	0.39	1.0 - 1.8	C 1.43	0.21	2.1 - 3.2	P 2.65	0.33	350

Calcium

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	6.6 - 8.6	C 7.63	0.07	9.1 - 11.1	C 10.11	0.09	10.7 - 12.7	C 11.71	0.13	7.8 - 9.8	C 8.8	0.11	9.8 - 11.8	C 10.79	0.09	19
Alfa Wassermann & Alfa Wasser Axel/Alera	2	6.7 - 8.7	C 7.69	0.28	9.1 - 11.1	C 10.13	0.28	10.6 - 12.6	C 11.6	0.28	8.1 - 10.1	C 9.12	0.29	9.9 - 11.9	C 10.87	0.32	19
Beckman Olympus Arsenazo & Beck Olym AU 400/600/5400	3	6.4 - 8.4	C 7.41	0.22	8.8 - 10.8	C 9.82	0.27	10.4 - 12.4	C 11.36	0.31	7.7 - 9.7	C 8.67	0.22	9.5 - 11.5	C 10.53	0.23	24
Beckman Olympus Arsenazo & Beckman AU 480	4	6.6 - 8.6	C 7.55	0.18	9.0 - 11.0	C 9.98	0.18	10.5 - 12.5	C 11.45	0.2	7.8 - 9.8	C 8.8	0.18	9.6 - 11.6	C 10.61	0.19	21
Ortho Vitros & Ortho Vitros 3600, 5600	5	6.5 - 8.5	C 7.52	0.17	9.0 - 11.0	C 9.98	0.21	10.4 - 12.4	C 11.37	0.27	7.8 - 9.8	C 8.81	0.21	9.6 - 11.6	C 10.62	0.27	20
Ortho Vitros & Ortho Vitros not DT or ECi	6	6.5 - 8.5	C 7.51	0.25	9.0 - 11.0	C 10.0	0.26	10.4 - 12.4	C 11.43	0.33	7.8 - 9.8	C 8.82	0.24	9.7 - 11.7	C 10.65	0.29	21
Roche Cobas & Roche Cobas Integra	7	6.8 - 8.8	C 7.78	0.18	9.2 - 11.2	C 10.24	0.18	10.8 - 12.8	C 11.76	0.22	8.0 - 10.0	C 9.04	0.17	9.9 - 11.9	C 10.88	0.19	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	6.7 - 8.7	C 7.71	0.16	9.2 - 11.2	C 10.19	0.22	10.8 - 12.8	C 11.76	0.22	8.0 - 10.0	C 8.98	0.17	9.8 - 11.8	C 10.82	0.2	18
Siemens OCPC & Siemens Dimension EXL	9	6.4 - 8.4	C 7.42	0.18	8.7 - 10.7	C 9.71	0.21	10.2 - 12.2	C 11.21	0.23	7.6 - 9.6	C 8.63	0.26	9.4 - 11.4	C 10.35	0.25	59
Siemens OCPC & Siemens Dimension Xpand	10	6.4 - 8.4	C 7.4	0.2	8.7 - 10.7	C 9.74	0.27	10.3 - 12.3	C 11.25	0.33	7.5 - 9.5	C 8.53	0.27	9.4 - 11.4	C 10.39	0.32	18

Initial Grouping by Reagent

Abbott	11	6.6 - 8.6	C 7.63	0.07	9.1 - 11.1	C 10.11	0.09	10.7 - 12.7	C 11.71	0.13	7.8 - 9.8	C 8.8	0.11	9.8 - 11.8	C 10.79	0.09	19
Alfa Wassermann	12	6.7 - 8.7	C 7.71	0.28	9.1 - 11.1	C 10.13	0.28	10.6 - 12.6	C 11.62	0.29	8.1 - 10.1	C 9.14	0.29	9.9 - 11.9	C 10.9	0.33	20
Beckman Coulter	13	6.5 - 8.5	C 7.52	0.24	8.9 - 10.9	C 9.88	0.27	10.4 - 12.4	C 11.36	0.31	7.7 - 9.7	C 8.73	0.25	9.5 - 11.5	C 10.5	0.3	19
Beckman Olympus Arsenazo	14	6.5 - 8.5	C 7.47	0.21	8.9 - 10.9	C 9.89	0.24	10.4 - 12.4	C 11.39	0.26	7.7 - 9.7	C 8.72	0.21	9.6 - 11.6	C 10.57	0.22	47
Carolina	15	6.5 - 8.5	C 7.45	0.27	8.9 - 10.9	C 9.88	0.32	10.2 - 12.2	C 11.18	0.36	7.9 - 9.9	C 8.85	0.26	9.5 - 11.5	C 10.48	0.37	11
Ortho Vitros	16	6.5 - 8.5	C 7.51	0.2	9.0 - 11.0	C 9.99	0.23	10.4 - 12.4	C 11.41	0.29	7.8 - 9.8	C 8.83	0.22	9.7 - 11.7	C 10.65	0.26	48
Roche Cobas	17	6.7 - 8.7	C 7.74	0.17	9.2 - 11.2	C 10.22	0.2	10.8 - 12.8	C 11.76	0.23	8.0 - 10.0	C 9.01	0.17	9.8 - 11.8	C 10.84	0.2	36
Siemens OCPC	18	6.4 - 8.4	C 7.43	0.18	8.7 - 10.7	C 9.73	0.22	10.2 - 12.2	C 11.24	0.26	7.6 - 9.6	C 8.62	0.26	9.4 - 11.4	C 10.38	0.27	85

Initial Grouping by Sensitivity or Principle

Arsenazo-based	19	6.6 - 8.6	C 7.55	0.25	9.0 - 11.0	C 9.96	0.27	10.4 - 12.4	C 11.42	0.34	7.8 - 9.8	C 8.83	0.27	9.6 - 11.6	C 10.63	0.31	206
OCPC (o-cresolphth complex)	20	6.5 - 8.5	C 7.52	0.23	8.9 - 10.9	C 9.89	0.31	10.4 - 12.4	C 11.4	0.34	7.7 - 9.7	C 8.74	0.3	9.5 - 11.5	C 10.53	0.33	129

Total Population

Whole Population	21	6.6 - 8.6	C 7.55	0.25	8.9 - 10.9	C 9.94	0.28	10.4 - 12.4	C 11.41	0.34	7.8 - 9.8	C 8.8	0.28	9.6 - 11.6	C 10.59	0.32	350
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Chloride

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	85 - 94	P 89.1	0.6	94 - 104	P 98.9	0.6	100 - 110	P 105.2	0.7	89 - 99	P 94.2	0.4	97 - 107	P 101.6	0.7	19
Alfa Wassermann & Alfa Wasser Axel/Alera	2	82 - 91	P 86.5	1.6	95 - 105	P 99.7	1.2	104 - 115	P 109.2	1.4	88 - 98	P 93.1	1.3	98 - 109	P 103.6	1.1	18
Beckman Coulter & Beck Coulter Unicel DXC	3	84 - 93	P 88.1	0.7	94 - 104	P 98.7	1.4	100 - 110	P 105.2	1.6	89 - 99	P 94.2	1.7	96 - 107	P 101.5	1.7	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	83 - 92	P 87.4	1.2	93 - 103	P 97.9	1.8	99 - 110	P 104.3	2.4	89 - 98	P 93.4	1.5	96 - 106	P 100.8	2.0	28
Beckman Olympus & Beckman AU 480	5	83 - 91	P 87.1	1.0	92 - 102	P 97.3	1.5	98 - 109	P 103.6	1.5	88 - 97	P 92.8	1.2	95 - 105	P 100.2	1.6	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	83 - 92	P 87.7	1.1	94 - 103	P 98.5	1.3	100 - 111	P 105.7	1.2	89 - 98	P 93.4	1.3	97 - 107	P 101.8	1.4	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	83 - 92	P 87.6	1.7	93 - 103	P 98.4	1.6	101 - 111	P 105.9	1.7	89 - 98	P 93.6	1.6	97 - 107	P 102.0	1.4	21

Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	78 - 87	P 82.4	2.1	90 - 100	P 94.9	1.7	98 - 108	P 103.1	1.3	85 - 93	P 89.0	1.7	93 - 103	P 98.1	1.6	15
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	80 - 89	P 84.6	1.0	94 - 104	P 99.1	1.0	103 - 113	P 108.0	1.2	87 - 96	P 91.9	0.8	97 - 108	P 102.6	1.1	60
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	80 - 89	P 84.5	0.7	94 - 104	P 98.8	0.7	102 - 113	P 107.7	1.1	87 - 96	P 91.7	1.1	97 - 108	P 102.5	1.1	18
Initial Grouping by Reagent																	
Abbott	11	85 - 94	P 89.1	0.6	94 - 104	P 98.9	0.6	100 - 110	P 105.2	0.7	89 - 99	P 94.2	0.4	97 - 107	P 101.6	0.7	19
Alfa Wassermann	12	82 - 91	P 86.5	1.5	95 - 105	P 99.7	1.2	104 - 115	P 109.2	1.4	89 - 98	P 93.2	1.3	98 - 109	P 103.6	1.0	19
Beckman Coulter	13	83 - 92	P 87.7	0.9	93 - 103	P 98.0	1.4	99 - 110	P 104.6	1.8	89 - 98	P 93.4	1.6	96 - 106	P 100.9	1.5	26
Beckman Olympus	14	83 - 92	P 87.3	1.1	93 - 102	P 97.6	1.7	99 - 109	P 104.0	2.0	88 - 98	P 93.1	1.4	95 - 106	P 100.5	1.8	54
Ortho Vitros	15	83 - 92	P 87.8	1.4	94 - 104	P 98.6	1.4	101 - 111	P 105.8	1.4	89 - 98	P 93.5	1.4	97 - 107	P 102.0	1.4	47
Roche Cobas dil ISE	16	80 - 88	P 84.0	2.9	91 - 101	P 96.3	2.5	99 - 110	P 104.4	2.5	86 - 95	P 90.3	2.5	95 - 104	P 99.5	2.6	30
Siemens QuickLYTE IMT	17	80 - 89	P 84.4	1.2	94 - 104	P 99.0	1.1	102 - 113	P 107.8	1.8	87 - 96	P 91.8	1.0	97 - 108	P 102.6	1.2	85
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	18	83 - 91	P 87.1	2.2	94 - 104	P 98.7	1.8	101 - 112	P 106.6	2.4	89 - 98	P 93.2	1.8	97 - 107	P 102.2	2.0	84
Colorimetric	19	82 - 91	P 86.6	3.0	93 - 103	P 98.2	2.8	101 - 111	P 105.8	3.4	88 - 97	P 92.3	3.0	97 - 107	P 101.9	3.3	18
Diluted ISE	20	82 - 90	P 86.1	2.4	93 - 103	P 98.3	1.9	101 - 111	P 105.8	2.6	88 - 97	P 92.5	2.0	96 - 106	P 101.4	2.2	231
All Medica Synermed	21	82 - 90	P 85.8	1.8	95 - 106	P 100.5	2.2	105 - 116	P 110.1	3.7	89 - 98	P 93.5	1.5	99 - 110	P 104.5	2.4	11
Total Population																	
Whole Population	22	82 - 91	P 86.3	2.4	93 - 103	P 98.4	2.0	101 - 111	P 106.1	2.8	88 - 97	P 92.7	2.0	97 - 107	P 101.7	2.3	346

Cholesterol, Total

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	68 - 83	P 75.0	1.1	125 - 153	P 138.8	1.5	162 - 197	P 179.5	1.2	96 - 118	P 107.0	0.7	139 - 170	P 154.9	1.1	18
Alfa Wassermann & Alfa Wasser Axel/Alera	2	70 - 86	P 77.8	2.4	126 - 153	P 139.5	3.2	162 - 198	P 179.9	4.7	98 - 120	P 109.2	2.7	140 - 171	P 155.3	4.4	14
Beckman Coulter & Beck Coulter Unicel DXC	3	65 - 80	P 72.6	1.5	123 - 151	P 136.9	3.7	158 - 193	P 175.6	4.3	94 - 115	P 104.6	2.5	138 - 169	P 153.6	5.0	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	64 - 78	P 71.2	2.2	120 - 146	P 132.9	2.5	154 - 189	P 171.6	4.6	92 - 112	P 102.2	3.5	134 - 164	P 148.7	4.1	23
Beckman Olympus & Beckman AU 480	5	66 - 80	P 72.8	2.2	123 - 150	P 136.2	3.5	158 - 193	P 175.9	4.8	95 - 116	P 105.0	2.8	137 - 168	P 152.4	4.2	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	53 - 65	P 58.8	1.8	119 - 145	P 132.1	2.5	158 - 193	P 175.6	3.2	89 - 109	P 98.8	2.1	136 - 166	P 151.0	2.7	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	54 - 66	P 60.1	4.3	120 - 146	P 132.9	5.0	157 - 192	P 174.8	5.4	91 - 111	P 100.8	4.1	136 - 166	P 150.8	5.9	20
Roche Cobas & Roche Cobas Integra	8	66 - 81	P 73.5	1.9	123 - 150	P 136.8	3.0	157 - 192	P 174.9	3.7	95 - 116	P 105.5	2.1	136 - 166	P 151.2	2.9	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	68 - 84	P 76.0	3.4	125 - 152	P 138.4	4.5	161 - 197	P 179.2	5.4	96 - 118	P 107.2	4.1	139 - 170	P 154.7	4.9	18
Siemens Dimension & Siemens Dimension EXL	10	65 - 79	P 71.9	2.5	121 - 148	P 134.2	3.1	156 - 190	P 172.8	3.4	93 - 113	P 102.8	3.1	135 - 165	P 149.9	3.7	58
Siemens Dimension & Siemens Dimension Xpand	11	65 - 79	P 71.9	3.4	121 - 148	P 134.4	3.8	156 - 191	P 173.4	5.5	92 - 113	P 102.6	4.0	135 - 165	P 149.7	5.9	19
Initial Grouping by Reagent																	
Abbott	12	68 - 83	P 75.0	1.1	125 - 153	P 138.8	1.5	162 - 197	P 179.5	1.2	96 - 118	P 107.0	0.7	139 - 170	P 154.9	1.1	18
Alfa Wassermann	13	70 - 86	P 77.8	2.4	126 - 153	P 139.5	3.2	162 - 198	P 179.9	4.7	98 - 120	P 109.2	2.7	140 - 171	P 155.3	4.4	14
Beckman Coulter	14	65 - 79	P 72.0	1.6	122 - 149	P 135.5	3.6	158 - 193	P 175.0	4.1	94 - 114	P 104.0	2.2	137 - 167	P 151.9	4.6	19
Beckman Olympus	15	65 - 79	P 71.8	2.3	121 - 148	P 134.3	3.5	156 - 191	P 173.3	5.1	93 - 114	P 103.4	3.5	135 - 165	P 150.3	4.6	45
Carolina	16	68 - 83	P 75.9	5.4	127 - 155	P 140.8	6.9	164 - 200	P 181.7	8.3	99 - 121	P 110.3	6.9	143 - 175	P 159.1	8.7	11
Ortho Vitros	17	54 - 66	P 59.8	3.9	119 - 146	P 132.6	3.8	158 - 193	P 175.5	4.5	90 - 110	P 100.0	3.4	136 - 166	P 151.3	4.5	45
Pointe Scientific	18	69 - 84	P 76.5	3.5	127 - 155	P 140.6	4.9	164 - 200	P 181.8	5.9	98 - 120	P 108.4	4.0	141 - 172	P 156.7	5.4	18
Roche Cobas	19	68 - 83	P 75.1	3.5	124 - 152	P 137.8	4.6	160 - 195	P 177.4	5.7	96 - 117	P 106.6	3.9	138 - 169	P 153.3	5.4	38
Siemens Dimension	20	65 - 79	P 71.8	2.9	121 - 148	P 134.3	3.8	156 - 190	P 172.8	4.0	93 - 113	P 102.8	3.6	135 - 165	P 150.0	4.8	84
Sterling Diagnostic	21	67 - 81	P 74.0	1.7	126 - 153	P 139.5	4.7	158 - 194	P 176.0	4.5	96 - 118	P 107.2	3.2	139 - 170	P 154.3	5.2	15
Initial Grouping by Sensitivity or Principle																	
All enzymatic cholesterol	22	65 - 79	P 71.8	5.8	122 - 150	P 136.1	4.7	158 - 193	P 175.8	5.6	94 - 115	P 104.6	4.6	137 - 168	P 152.5	6.4	344
Total Population																	
Whole Population	23	65 - 79	P 71.8	5.8	122 - 150	P 136.1	4.7	158 - 193	P 175.9	5.6	94 - 115	P 104.6	4.6	137 - 168	P 152.5	6.4	345

Creatinine

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	0.7 - 1.3	C 0.96	0.06	2.5 - 3.4	P 2.97	0.07	3.6 - 4.9	P 4.29	0.11	1.7 - 2.3	C 2.0	0.07	3.0 - 4.0	P 3.52	0.06	20
Alfa Wassermann & Alfa Wasser Axel/Alera	2	0.9 - 1.5	C 1.21	0.06	2.4 - 3.3	P 2.87	0.11	3.2 - 4.3	P 3.76	0.15	1.8 - 2.4	P 2.09	0.09	2.8 - 3.8	P 3.29	0.14	20
Beckman Olympus & Beck Olym AU 400/600/5400	3	0.8 - 1.4	C 1.07	0.05	2.4 - 3.3	P 2.85	0.09	3.3 - 4.5	P 3.89	0.2	1.7 - 2.3	C 1.98	0.07	2.8 - 3.8	P 3.31	0.12	26
Beckman Olympus & Beckman AU 480	4	0.8 - 1.4	C 1.08	0.04	2.5 - 3.3	P 2.89	0.09	3.4 - 4.6	P 3.98	0.14	1.7 - 2.3	P 2.01	0.07	2.8 - 3.8	P 3.33	0.12	24
Ortho Vitros 1-slide enz & Ortho Vitros 3600, 5600	5	0.8 - 1.4	C 1.05	0.05	2.4 - 3.2	P 2.82	0.08	3.2 - 4.2	P 3.79	0.1	1.6 - 2.2	C 1.94	0.05	2.8 - 3.7	P 3.26	0.1	12
Ortho Vitros 1-slide enz & Ortho Vitros not DT or ECi	6	0.8 - 1.4	C 1.05	0.05	2.3 - 3.1	P 2.7	0.06	3.1 - 4.4	P 3.65	0.11	1.6 - 2.2	C 1.88	0.06	2.7 - 3.6	P 3.13	0.1	11
Roche Cobas & Roche Cobas Integra	7	0.8 - 1.4	C 1.1	0.06	2.4 - 3.3	P 2.83	0.1	3.2 - 4.4	P 3.79	0.14	1.7 - 2.3	C 1.99	0.08	2.8 - 3.7	P 3.25	0.1	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	0.8 - 1.4	C 1.06	0.07	2.4 - 3.3	P 2.83	0.12	3.3 - 4.5	P 3.87	0.17	1.7 - 2.3	C 1.96	0.1	2.8 - 3.7	P 3.25	0.15	17
Siemens Dimension & Siemens Dimension EXL	9	0.9 - 1.5	C 1.16	0.05	2.5 - 3.4	P 2.93	0.07	3.5 - 4.7	P 4.09	0.09	1.7 - 2.3	P 2.01	0.06	2.9 - 3.9	P 3.43	0.08	45
Siemens Dimension & Siemens Dimension Xpand	10	0.9 - 1.5	C 1.17	0.06	2.5 - 3.4	P 2.94	0.06	3.5 - 4.7	P 4.06	0.06	1.7 - 2.3	P 2.02	0.06	2.9 - 3.9	P 3.42	0.08	11

Initial Grouping by Reagent

Abbott Architect	11	0.7 - 1.3	C 0.96	0.06	2.5 - 3.4	P 2.97	0.07	3.6 - 4.9	P 4.29	0.11	1.7 - 2.3	C 2.0	0.07	3.0 - 4.0	P 3.52	0.06	20
Alfa Wassermann	12	0.9 - 1.5	C 1.21	0.06	2.5 - 3.3	P 2.89	0.12	3.2 - 4.3	P 3.78	0.16	1.8 - 2.4	P 2.09	0.08	2.8 - 3.8	P 3.3	0.14	21
Beckman Coulter	13	0.8 - 1.4	C 1.08	0.05	2.4 - 3.3	P 2.86	0.1	3.4 - 4.6	P 3.97	0.09	1.7 - 2.3	P 2.0	0.07	2.8 - 3.8	P 3.33	0.1	19
Beckman Olympus	14	0.8 - 1.4	C 1.08	0.05	2.4 - 3.3	P 2.87	0.09	3.3 - 4.5	P 3.93	0.18	1.7 - 2.3	C 1.99	0.07	2.8 - 3.8	P 3.32	0.12	53
Carolina	15	0.9 - 1.5	C 1.21	0.13	2.4 - 3.3	P 2.88	0.14	3.3 - 4.5	P 3.87	0.2	1.7 - 2.3	P 2.01	0.16	2.8 - 3.8	P 3.3	0.19	12
Ortho Vitros 1-slide enz	16	0.8 - 1.4	C 1.05	0.05	2.4 - 3.2	P 2.78	0.1	3.2 - 4.3	P 3.74	0.13	1.6 - 2.2	C 1.92	0.07	2.7 - 3.7	P 3.21	0.12	28
Ortho Vitros IDMS traceable	17	0.7 - 1.3	C 1.02	0.04	2.3 - 3.2	P 2.74	0.07	3.2 - 4.3	P 3.72	0.1	1.6 - 2.2	C 1.89	0.06	2.7 - 3.6	P 3.17	0.08	19
Pointe Scientific	18	0.9 - 1.5	C 1.21	0.09	2.5 - 3.4	P 2.94	0.12	3.4 - 4.6	P 3.99	0.15	1.8 - 2.4	P 2.08	0.08	2.9 - 3.9	P 3.38	0.1	11
Roche Cobas	19	0.8 - 1.4	C 1.07	0.07	2.4 - 3.2	P 2.82	0.11	3.3 - 4.4	P 3.83	0.16	1.7 - 2.3	C 1.97	0.09	2.8 - 3.7	P 3.24	0.13	34
Siemens Dimension	20	0.9 - 1.5	C 1.16	0.06	2.5 - 3.4	P 2.93	0.07	3.5 - 4.7	P 4.08	0.09	1.7 - 2.3	P 2.01	0.06	2.9 - 3.9	P 3.43	0.08	60
Siemens EZCR/IDMS Traceable	21	0.9 - 1.5	C 1.17	0.04	2.5 - 3.4	P 2.92	0.04	3.4 - 4.6	P 4.02	0.08	1.7 - 2.3	P 2.01	0.05	2.9 - 3.9	P 3.37	0.07	12
Siemens nonenz rate	22	0.9 - 1.5	C 1.16	0.05	2.5 - 3.3	P 2.9	0.11	3.4 - 4.6	P 4.0	0.14	1.7 - 2.3	C 1.99	0.05	2.9 - 3.9	P 3.39	0.12	10
Synermed	23	1.0 - 1.6	C 1.32	0.08	2.3 - 3.1	P 2.69	0.18	3.0 - 4.1	P 3.56	0.21	1.7 - 2.3	P 2.04	0.13	2.6 - 3.5	P 3.06	0.16	10

Initial Grouping by Sensitivity or Principle

Enzymatic methods	24	0.8 - 1.4	C 1.13	0.08	2.5 - 3.3	P 2.89	0.11	3.4 - 4.6	P 3.98	0.19	1.7 - 2.3	C 1.99	0.08	2.9 - 3.9	P 3.36	0.14	93
Nonenzymatic rate	25	0.8 - 1.4	C 1.11	0.11	2.4 - 3.3	P 2.86	0.13	3.3 - 4.5	P 3.92	0.22	1.7 - 2.3	P 2.0	0.1	2.8 - 3.8	P 3.32	0.16	209
IDMS traceable	26	0.8 - 1.4	C 1.1	0.09	2.4 - 3.2	P 2.82	0.13	3.3 - 4.4	P 3.85	0.2	1.7 - 2.3	C 1.96	0.11	2.8 - 3.7	P 3.25	0.17	48

Total Population

Whole Population	27	0.8 - 1.4	C 1.11	0.1	2.4 - 3.3	P 2.86	0.14	3.3 - 4.5	P 3.92	0.23	1.7 - 2.3	C 1.99	0.1	2.8 - 3.8	P 3.31	0.16	362
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Glucose**Initial Grouping by Reagent and Instrument**

Abbott & Abbott Architect c, ci, i	1	57 - 69	P 63.1	0.9	126 - 155	P 140.5	1.7	170 - 208	P 189.3	1.9	93 - 113	P 103.0	0.9	145 - 177	P 160.9	1.4	20
Alfa Wassermann & Alfa Wasser Axel/Alera	2	62 - 76	P 68.9	2.4	133 - 163	P 148.1	3.8	178 - 217	P 197.3	6.2	98 - 120	P 109.1	3.7	152 - 185	P 168.6	5.5	19
Beckman Olympus & Beck Olym AU 400/600/5400	3	59 - 72	P 65.3	1.8	131 - 160	P 145.2	3.1	174 - 213	P 193.2	4.7	94 - 116	P 105.0	2.8	148 - 180	P 163.9	5.1	25
Beckman Olympus & Beckman AU 480	4	60 - 73	P 66.2	1.7	132 - 161	P 146.6	3.8	177 - 216	P 196.2	4.8	96 - 118	P 106.9	3.2	151 - 184	P 167.6	4.8	25
Ortho Vitros & Ortho Vitros 3600, 5600	5	53 - 65	C 58.6	1.3	121 - 148	P 134.5	2.6	164 - 201	P 182.5	3.0	88 - 108	P 97.8	1.8	139 - 169	P 154.0	2.6	20
Ortho Vitros & Ortho Vitros not DT or ECI	6	54 - 66	C 60.0	1.8	123 - 150	P 136.6	2.0	167 - 205	P 186.0	2.9	90 - 110	P 100.0	2.1	142 - 173	P 157.4	2.6	21
Roche Cobas & Roche Cobas Integra	7	59 - 72	P 65.9	1.4	132 - 161	P 146.5	3.8	176 - 215	P 195.4	3.5	96 - 117	P 106.4	2.3	150 - 183	P 166.5	3.9	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	58 - 71	P 64.7	1.7	130 - 158	P 143.9	3.6	174 - 212	P 193.1	3.5	94 - 115	P 104.6	2.8	149 - 182	P 165.1	4.2	18
Siemens HK & Siemens Dimension EXL	9	59 - 72	P 65.3	1.6	129 - 158	P 143.6	2.5	173 - 211	P 192.2	3.1	94 - 115	P 104.9	2.1	148 - 181	P 164.1	3.1	28
Siemens HK, GLUC & Siemens Dimension EXL	10	60 - 73	P 66.5	1.9	131 - 160	P 145.4	3.8	175 - 214	P 194.5	4.9	95 - 117	P 106.1	2.7	149 - 182	P 165.6	4.2	32

Initial Grouping by Reagent

Abbott	11	57 - 69	P 63.1	0.9	126 - 155	P 140.5	1.7	170 - 208	P 189.3	1.9	93 - 113	P 103.0	0.9	145 - 177	P 160.9	1.4	20
Alfa Wassermann	12	62 - 76	P 69.0	2.3	133 - 163	P 148.3	3.8	178 - 217	P 197.6	6.1	98 - 120	P 109.3	3.7	152 - 186	P 168.8	5.4	20
Beckman HK	13	58 - 71	P 64.1	2.6	129 - 158	P 143.6	4.8	173 - 212	P 192.7	6.0	94 - 115	P 104.1	3.8	148 - 181	P 164.6	5.9	15
Beckman Olympus	14	59 - 72	P 65.7	1.8	131 - 160	P 145.9	3.6	175 - 214	P 194.6	5.0	95 - 116	P 105.8	3.2	149 - 182	P 165.8	5.2	52
Carolina HK	15	61 - 74	P 67.4	2.9	132 - 161	P 146.5	4.7	176 - 215	P 195.3	6.7	96 - 117	P 106.5	3.4	150 - 184	P 167.1	7.3	10
Ortho Vitros	16	54 - 66	C 59.5	1.8	122 - 149	P 135.8	2.7	166 - 203	P 184.6	3.4	89 - 109	P 99.2	2.4	140 - 172	P 156.1	3.2	48
Roche Cobas	17	59 - 72	P 65.2	1.7	131 - 160	P 145.1	4.0	175 - 214	P 194.1	4.3	95 - 116	P 105.3	2.8	149 - 182	P 165.8	4.3	36
Siemens HK	18	59 - 72	P 65.3	1.7	129 - 157	P 143.1	3.4	173 - 211	P 192.1	4.3	94 - 115	P 104.6	2.5	147 - 180	P 163.7	3.8	46
Siemens HK, GLUC	19	60 - 73	P 66.7	2.1	131 - 160	P 145.8	4.1	175 - 215	P 195.0	5.4	96 - 117	P 106.4	3.1	150 - 183	P 166.3	4.5	42
Sterling Diagnostic	20	58 - 71	P 64.8	1.8	128 - 157	P 142.3	3.8	171 - 209	P 189.8	5.3	95 - 116	P 105.3	3.2	145 - 178	P 161.4	3.9	13

Initial Grouping by Sensitivity or Principle

Hexokinase (HK)	21	59 - 72	P 65.8	2.6	130 - 159	P 144.7	4.8	174 - 213	P 193.6	5.8	95 - 116	P 105.5	3.5	149 - 182	P 165.2	5.5	257
Hexokinase Alfa Wasserman and related	22	62 - 76	P 69.0	2.3	133 - 163	P 148.3	3.8	178 - 217	P 197.6	6.1	98 - 120	P 109.3	3.7	152 - 186	P 168.8	5.4	20
Glucose Oxidase (GO)	23	55 - 68	P 61.5	3.4	125 - 153	P 139.0	5.8	169 - 207	P 188.2	7.4	92 - 112	P 101.7	4.6	143 - 175	P 159.4	6.5	79

Total Population

Whole Population	24	59 - 71	P 65.0	3.4	129 - 158	P 143.7	5.7	173 - 212	P 192.6	6.9	94 - 115	P 104.9	4.2	148 - 181	P 164.1	6.4	366
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Phosphorus**Initial Grouping by Reagent and Instrument**

Abbott Architect & Abbott Architect c, ci, i	1	2.2 - 3.0	C 2.61	0.12	4.0 - 5.4	P 4.67	0.17	5.0 - 6.8	P 5.89	0.22	3.1 - 4.1	P 3.6	0.15	4.3 - 5.8	P 5.07	0.22	15
Beckman Olympus blanked & Beckman AU 480	2	2.2 - 3.0	C 2.62	0.12	4.0 - 5.5	P 4.75	0.17	5.1 - 6.9	P 5.97	0.21	3.1 - 4.2	P 3.64	0.16	4.4 - 5.9	P 5.14	0.18	10
Beckman Olympus no blank & Beck Olym AU 400/600/5400	3	2.2 - 3.0	C 2.58	0.14	3.9 - 5.3	P 4.63	0.22	5.0 - 6.8	P 5.87	0.31	3.1 - 4.1	P 3.6	0.18	4.3 - 5.8	P 5.05	0.19	12
Beckman Olympus no blank & Beckman AU 480	4	2.3 - 3.1	C 2.67	0.14	4.0 - 5.4	P 4.72	0.2	5.1 - 6.9	P 6.01	0.24	3.1 - 4.2	P 3.69	0.14	4.4 - 6.0	P 5.18	0.18	12
Ortho Vitros & Ortho Vitros 3600, 5600	5	2.4 - 3.3	P 2.85	0.12	4.1 - 5.6	P 4.83	0.19	5.2 - 7.0	P 6.12	0.22	3.3 - 4.4	P 3.83	0.16	4.5 - 6.1	P 5.29	0.24	16
Ortho Vitros & Ortho Vitros not DT or ECI	6	2.3 - 3.2	P 2.75	0.17	4.0 - 5.4	P 4.7	0.31	5.0 - 6.8	P 5.9	0.43	3.2 - 4.3	P 3.73	0.24	4.4 - 5.9	P 5.15	0.33	15
Roche Cobas & Roche e/c, 1XX, X000, Elec series	7	2.2 - 3.0	C 2.63	0.14	4.0 - 5.4	P 4.72	0.2	5.0 - 6.8	P 5.88	0.25	3.1 - 4.2	P 3.64	0.19	4.3 - 5.9	P 5.1	0.24	12
Siemens Dimension & Siemens Dimension EXL	8	2.4 - 3.2	P 2.77	0.17	4.2 - 5.6	P 4.9	0.24	5.2 - 7.0	P 6.13	0.34	3.2 - 4.4	P 3.81	0.19	4.5 - 6.1	P 5.29	0.27	56

Siemens Dimension & Siemens Dimension Xpand	9	2.4 - 3.3	P 2.85	0.17	4.3 - 5.8	P 5.06	0.25	5.4 - 7.3	P 6.35	0.3	3.3 - 4.5	P 3.94	0.18	4.7 - 6.3	P 5.48	0.26	11
Initial Grouping byReagent																	
Abbott Architect	10	2.2 - 3.0	C 2.61	0.12	4.0 - 5.4	P 4.67	0.17	5.0 - 6.8	P 5.89	0.22	3.1 - 4.1	P 3.6	0.15	4.3 - 5.8	P 5.07	0.22	15
Beckman Olympus blanked	11	2.2 - 3.0	C 2.59	0.16	4.0 - 5.4	P 4.68	0.23	5.0 - 6.7	P 5.86	0.3	3.1 - 4.2	P 3.61	0.21	4.3 - 5.8	P 5.07	0.23	19
Beckman Olympus no blank	12	2.2 - 3.0	C 2.62	0.15	4.0 - 5.4	P 4.7	0.24	5.1 - 6.8	P 5.95	0.29	3.1 - 4.2	P 3.68	0.24	4.4 - 5.9	P 5.14	0.22	25
Ortho Vitros	13	2.4 - 3.2	P 2.8	0.15	4.0 - 5.5	P 4.76	0.26	5.1 - 6.9	P 6.01	0.34	3.2 - 4.3	P 3.77	0.2	4.4 - 6.0	P 5.22	0.28	35
Roche Cobas	14	2.3 - 3.1	C 2.65	0.15	4.0 - 5.4	P 4.73	0.22	5.0 - 6.8	P 5.94	0.29	3.1 - 4.2	P 3.67	0.19	4.4 - 5.9	P 5.15	0.26	20
Siemens Dimension	15	2.4 - 3.2	P 2.78	0.17	4.2 - 5.7	P 4.92	0.25	5.2 - 7.1	P 6.17	0.33	3.2 - 4.4	P 3.82	0.2	4.5 - 6.1	P 5.32	0.28	75
Initial Grouping bySensitivity or Principle																	
UV-uncorrected	16	2.4 - 3.2	P 2.81	0.28	4.2 - 5.7	P 4.92	0.28	5.3 - 7.1	P 6.18	0.35	3.2 - 4.4	P 3.82	0.26	4.5 - 6.1	P 5.3	0.26	13
UV-bichromatic-sam blanked	17	2.3 - 3.1	P 2.71	0.19	4.1 - 5.6	P 4.83	0.28	5.1 - 7.0	P 6.05	0.37	3.2 - 4.3	P 3.75	0.23	4.4 - 6.0	P 5.23	0.31	138
UV-bichromatic-no sam blks	18	2.3 - 3.1	C 2.65	0.18	4.0 - 5.4	P 4.69	0.23	5.0 - 6.8	P 5.93	0.29	3.1 - 4.2	P 3.69	0.23	4.3 - 5.9	P 5.09	0.23	34
UV-rate	19	2.3 - 3.1	P 2.71	0.24	4.2 - 5.6	P 4.89	0.45	5.1 - 6.9	P 6.02	0.38	3.1 - 4.2	P 3.68	0.23	4.5 - 6.1	P 5.3	0.51	14
Visible	20	2.4 - 3.2	P 2.79	0.17	4.1 - 5.5	P 4.8	0.29	5.1 - 6.9	P 6.04	0.38	3.2 - 4.3	P 3.78	0.2	4.5 - 6.1	P 5.27	0.34	38
Total Population																	
Whole Population	21	2.3 - 3.1	P 2.72	0.2	4.1 - 5.5	P 4.81	0.3	5.1 - 6.9	P 6.04	0.37	3.2 - 4.3	P 3.74	0.24	4.4 - 6.0	P 5.23	0.33	247

Potassium

Initial Grouping byReagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	2.5 - 3.5	C 2.96	0.05	4.1 - 5.1	C 4.64	0.06	5.2 - 6.2	C 5.72	0.05	3.3 - 4.3	C 3.78	0.04	4.6 - 5.6	C 5.07	0.05	20
Alfa Wassermann & Alfa Wasser Excel/Alera	2	2.4 - 3.4	C 2.9	0.1	4.1 - 5.1	C 4.62	0.1	5.3 - 6.3	C 5.79	0.08	3.3 - 4.3	C 3.8	0.1	4.6 - 5.6	C 5.11	0.08	18
Beckman Coulter & Beck Coult Unicel DXC	3	2.3 - 3.3	C 2.83	0.06	4.0 - 5.0	C 4.53	0.07	5.1 - 6.1	C 5.62	0.08	3.2 - 4.2	C 3.7	0.06	4.5 - 5.5	C 4.99	0.08	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	2.4 - 3.4	C 2.89	0.05	4.0 - 5.0	C 4.49	0.08	5.0 - 6.0	C 5.51	0.1	3.2 - 4.2	C 3.71	0.05	4.4 - 5.4	C 4.93	0.1	28
Beckman Olympus & Beckman AU 480	5	2.4 - 3.4	C 2.9	0.0	4.0 - 5.0	C 4.52	0.06	5.1 - 6.1	C 5.55	0.08	3.2 - 4.2	C 3.7	0.05	4.4 - 5.4	C 4.94	0.07	23
Ortho Vitros & Ortho Vitros 3600, 5600	6	2.5 - 3.5	C 3.01	0.05	4.3 - 5.3	C 4.79	0.08	5.5 - 6.5	C 5.99	0.08	3.4 - 4.4	C 3.88	0.07	4.8 - 5.8	C 5.29	0.06	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	2.5 - 3.5	C 3.02	0.04	4.3 - 5.3	C 4.81	0.07	5.5 - 6.5	C 6.04	0.07	3.4 - 4.4	C 3.91	0.06	4.8 - 5.8	C 5.32	0.06	21
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	2.5 - 3.5	C 2.97	0.05	4.2 - 5.2	C 4.67	0.06	5.2 - 6.2	C 5.73	0.07	3.3 - 4.3	C 3.84	0.07	4.6 - 5.6	C 5.1	0.06	15
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	2.4 - 3.4	C 2.89	0.05	4.1 - 5.1	C 4.57	0.06	5.1 - 6.1	C 5.61	0.06	3.2 - 4.2	C 3.72	0.05	4.5 - 5.5	C 5.0	0.05	60
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	2.4 - 3.4	C 2.91	0.06	4.1 - 5.1	C 4.57	0.06	5.1 - 6.1	C 5.62	0.08	3.2 - 4.2	C 3.74	0.05	4.5 - 5.5	C 5.01	0.07	18
Initial Grouping byReagent																	
Abbott Architect	11	2.5 - 3.5	C 2.96	0.05	4.1 - 5.1	C 4.64	0.06	5.2 - 6.2	C 5.72	0.05	3.3 - 4.3	C 3.78	0.04	4.6 - 5.6	C 5.07	0.05	20
Alfa Wassermann	12	2.4 - 3.4	C 2.9	0.1	4.1 - 5.1	C 4.62	0.1	5.3 - 6.3	C 5.79	0.09	3.3 - 4.3	C 3.8	0.1	4.6 - 5.6	C 5.11	0.08	19
Beckman Coulter	13	2.4 - 3.4	C 2.87	0.07	4.0 - 5.0	C 4.51	0.07	5.1 - 6.1	C 5.57	0.09	3.2 - 4.2	C 3.71	0.05	4.5 - 5.5	C 4.95	0.08	26
Beckman Olympus	14	2.4 - 3.4	C 2.9	0.04	4.0 - 5.0	C 4.51	0.07	5.0 - 6.0	C 5.53	0.09	3.2 - 4.2	C 3.7	0.07	4.4 - 5.4	C 4.94	0.08	54
Ortho Vitros	15	2.5 - 3.5	C 3.01	0.05	4.3 - 5.3	C 4.8	0.07	5.5 - 6.5	C 6.01	0.07	3.4 - 4.4	C 3.9	0.07	4.8 - 5.8	C 5.31	0.07	47
Roche Cobas dil ISE	16	2.4 - 3.4	C 2.94	0.07	4.2 - 5.2	C 4.66	0.06	5.2 - 6.2	C 5.7	0.09	3.3 - 4.3	C 3.82	0.07	4.6 - 5.6	C 5.08	0.08	30
Siemens QuickLYTE IMT	17	2.4 - 3.4	C 2.9	0.06	4.1 - 5.1	C 4.57	0.06	5.1 - 6.1	C 5.6	0.07	3.2 - 4.2	C 3.73	0.05	4.5 - 5.5	C 5.0	0.06	85
Initial Grouping bySensitivity or Principle																	
Undiluted ISE results	18	2.4 - 3.4	C 2.93	0.09	4.1 - 5.1	C 4.62	0.14	5.2 - 6.2	C 5.71	0.21	3.3 - 4.3	C 3.78	0.11	4.6 - 5.6	C 5.08	0.16	185
Colorimetric/turbidimetric	19	2.4 - 3.4	C 2.87	0.16	4.2 - 5.2	C 4.67	0.19	5.2 - 6.2	C 5.68	0.27	3.3 - 4.3	C 3.76	0.2	4.6 - 5.6	C 5.06	0.25	10
Diluted ISE results	20	2.4 - 3.4	C 2.91	0.07	4.1 - 5.1	C 4.56	0.1	5.1 - 6.1	C 5.61	0.12	3.2 - 4.2	C 3.74	0.08	4.5 - 5.5	C 4.99	0.11	149
Total Population																	
Whole Population	21	2.4 - 3.4	C 2.92	0.09	4.1 - 5.1	C 4.59	0.13	5.2 - 6.2	C 5.67	0.19	3.3 - 4.3	C 3.76	0.11	4.5 - 5.5	C 5.04	0.15	346

Sodium

Initial Grouping byReagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	114 - 122	C 117.8	0.7	134 - 142	C 138.3	0.7	147 - 155	C 150.8	1.0	124 - 132	C 128.0	0.9	139 - 147	C 143.2	0.9	19
Alfa Wassermann & Alfa Wasser Excel/Alera	2	112 - 120	C 115.8	1.6	134 - 142	C 137.6	0.6	150 - 158	C 153.6	0.6	123 - 131	C 127.1	0.9	141 - 149	C 144.6	0.7	16
Beckman Coulter & Beck Coult Unicel DXC	3	113 - 121	C 117.4	1.7	133 - 141	C 137.3	1.5	147 - 155	C 150.6	1.8	124 - 132	C 128.2	1.6	139 - 147	C 143.2	2.2	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	112 - 120	C 116.4	1.4	132 - 140	C 135.9	2.0	144 - 152	C 147.9	1.8	123 - 131	C 127.1	1.7	137 - 145	C 141.4	2.0	29
Beckman Olympus & Beckman AU 480	5	113 - 121	C 116.6	1.3	133 - 141	C 136.6	1.5	145 - 153	C 148.9	1.6	123 - 131	C 127.4	1.4	138 - 146	C 141.9	1.9	23
Ortho Vitros & Ortho Vitros 3600, 5600	6	119 - 127	C 122.7	1.1	140 - 148	C 144.4	1.8	155 - 163	C 158.9	1.8	129 - 137	C 133.4	1.4	147 - 155	C 150.5	1.5	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	119 - 127	C 122.8	1.7	141 - 149	C 144.9	1.7	156 - 164	C 159.7	2.0	130 - 138	C 134.2	1.4	147 - 155	C 151.0	1.3	21
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	114 - 122	C 117.9	1.4	134 - 142	C 138.3	1.3	148 - 156	C 151.6	1.2	125 - 133	C 128.7	1.1	140 - 148	C 144.1	1.1	15
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	115 - 123	C 119.2	1.4	134 - 142	C 137.6	1.5	145 - 153	C 149.1	1.2	125 - 133	C 128.6	1.3	139 - 147	C 142.8	1.5	58
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	116 - 124	C 120.2	1.2	135 - 143	C 138.7	0.7	146 - 154	C 150.4	1.1	125 - 133	C 129.4	1.0	140 - 148	C 143.6	1.2	18
Initial Grouping byReagent																	
Abbott Architect	11	114 - 122	C 117.8	0.7	134 - 142	C 138.3	0.7	147 - 155	C 150.8	1.0	124 - 132	C 128.0	0.9	139 - 147	C 143.2	0.9	19

Alfa Wassermann	12	112 - 120	C 115.8	1.6	134 - 142	C 137.6	0.6	150 - 158	C 153.6	0.6	123 - 131	C 127.1	0.9	141 - 149	C 144.5	0.7	17
Beckman Coulter	13	113 - 121	C 116.9	1.5	133 - 141	C 136.7	1.6	146 - 154	C 149.7	1.9	124 - 132	C 127.7	1.4	138 - 146	C 142.4	2.0	26
Beckman Olympus	14	113 - 121	C 116.6	1.4	132 - 140	C 136.2	1.8	144 - 152	C 148.4	1.8	123 - 131	C 127.3	1.6	138 - 146	C 141.6	1.9	55
Ortho Vitros	15	119 - 127	C 122.9	1.6	141 - 149	C 144.8	1.7	156 - 164	C 159.7	2.1	130 - 138	C 134.0	1.5	147 - 155	C 150.9	1.5	47
Roche Cobas dil ISE	16	114 - 122	C 117.8	1.3	134 - 142	C 138.1	1.3	147 - 155	C 151.2	1.5	124 - 132	C 128.4	1.2	140 - 148	C 143.6	1.3	30
Siemens QuickLYTE IMT	17	116 - 124	C 119.5	1.4	134 - 142	C 137.8	1.4	145 - 153	C 149.3	1.3	125 - 133	C 128.6	1.5	139 - 147	C 142.9	1.5	85

Initial Grouping bySensitivityor Principle

Undiluted ISE	18	116 - 124	C 119.7	2.7	136 - 144	C 139.6	3.5	149 - 157	C 152.7	4.7	126 - 134	C 129.8	3.0	141 - 149	C 145.0	3.7	175
Colorimetric	19	115 - 123	C 119.2	3.0	136 - 144	C 139.9	3.4	150 - 158	C 153.5	3.7	125 - 133	C 128.6	3.2	141 - 149	C 145.1	3.4	11
Diluted ISE	20	113 - 121	C 117.2	1.7	133 - 141	C 137.1	2.1	146 - 154	C 149.7	2.3	124 - 132	C 127.7	1.6	139 - 147	C 142.5	2.0	148
All Medica, Synermed	21	117 - 125	C 120.5	2.4	136 - 144	C 140.2	2.7	151 - 159	C 154.5	4.3	126 - 134	C 129.9	2.7	142 - 150	C 145.6	3.3	10
Total Population																	
Whole Population	22	115 - 123	C 118.6	2.7	135 - 143	C 138.6	3.2	148 - 156	C 151.5	4.1	125 - 133	C 128.8	2.7	140 - 148	C 143.9	3.3	346

Protein, Total

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	2.7 - 3.3	P 3.04	0.1	5.1 - 6.2	P 5.68	0.1	6.6 - 8.1	P 7.35	0.1	3.9 - 4.8	P 4.33	0.09	5.7 - 7.0	P 6.34	0.09	22
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.8 - 3.4	P 3.1	0.1	5.0 - 6.2	P 5.6	0.21	6.5 - 7.9	P 7.2	0.24	4.0 - 4.9	P 4.41	0.16	5.7 - 7.0	P 6.33	0.23	15
All refractometers & All other refractometers	3	3.7 - 4.5	P 4.06	0.13	6.3 - 7.7	P 6.98	0.13	8.0 - 9.8	P 8.89	0.13	5.0 - 6.1	P 5.52	0.13	7.0 - 8.5	P 7.77	0.15	275
All refractometers & Reichert TS Meter-DSP	4	3.6 - 4.5	P 4.05	0.09	6.3 - 7.7	P 6.98	0.11	8.0 - 9.8	P 8.9	0.12	5.0 - 6.1	P 5.53	0.11	7.0 - 8.5	P 7.77	0.1	118
Beckman Olympus & Beck Olym AU 400/600/5400	5	2.8 - 3.4	P 3.09	0.07	5.0 - 6.1	P 5.55	0.09	6.4 - 7.8	P 7.08	0.17	3.9 - 4.8	P 4.33	0.13	5.6 - 6.8	P 6.21	0.15	27
Beckman Olympus & Beckman AU 480	6	2.8 - 3.4	P 3.07	0.08	5.0 - 6.1	P 5.55	0.12	6.4 - 7.8	P 7.1	0.16	3.9 - 4.8	P 4.33	0.1	5.6 - 6.8	P 6.21	0.14	26
Ortho Vitros & Ortho Vitros 3600, 5600	7	2.8 - 3.5	P 3.14	0.07	5.0 - 6.1	P 5.51	0.11	6.2 - 7.6	P 6.94	0.16	3.9 - 4.8	P 4.36	0.09	5.5 - 6.7	P 6.11	0.1	20
Ortho Vitros & Ortho Vitros not DT or ECi	8	2.8 - 3.5	P 3.16	0.07	5.0 - 6.1	P 5.5	0.14	6.3 - 7.6	P 6.95	0.14	3.9 - 4.8	P 4.37	0.09	5.5 - 6.8	P 6.15	0.12	21
Reichert TS Meter-DSP & Reichert TS Meter-DSP	9	3.7 - 4.5	P 4.07	0.11	6.3 - 7.7	P 7.0	0.09	8.0 - 9.8	P 8.92	0.12	5.0 - 6.1	P 5.54	0.1	7.0 - 8.6	P 7.78	0.12	282
Roche Cobas & Roche Cobas Integra	10	2.8 - 3.4	P 3.08	0.09	5.0 - 6.1	P 5.55	0.17	6.3 - 7.7	P 6.97	0.18	3.9 - 4.8	P 4.35	0.11	5.6 - 6.8	P 6.19	0.16	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	2.9 - 3.5	P 3.2	0.11	5.2 - 6.3	P 5.77	0.14	6.5 - 8.0	P 7.25	0.13	4.0 - 4.9	P 4.49	0.12	5.7 - 7.0	P 6.35	0.1	18
Siemens Dimension & Siemens Dimension EXL	12	2.9 - 3.6	P 3.23	0.07	5.2 - 6.4	P 5.81	0.15	6.7 - 8.2	P 7.44	0.15	4.1 - 5.0	P 4.54	0.11	5.8 - 7.1	P 6.49	0.14	53
Siemens Dimension & Siemens Dimension Xpand	13	2.9 - 3.6	P 3.23	0.1	5.3 - 6.4	P 5.86	0.09	6.7 - 8.2	P 7.47	0.17	4.1 - 5.0	P 4.55	0.11	5.9 - 7.2	P 6.57	0.08	17

Initial Grouping byReagent

Abbott	14	2.7 - 3.3	P 3.04	0.1	5.1 - 6.2	P 5.68	0.1	6.6 - 8.1	P 7.35	0.1	3.9 - 4.8	P 4.33	0.09	5.7 - 7.0	P 6.34	0.09	22
Alfa Wassermann	15	2.8 - 3.4	P 3.11	0.1	5.1 - 6.2	P 5.63	0.22	6.5 - 8.0	P 7.23	0.25	4.0 - 4.9	P 4.43	0.17	5.7 - 7.0	P 6.35	0.23	16
All refractometers	16	3.6 - 4.5	P 4.05	0.12	6.3 - 7.7	P 6.98	0.12	8.0 - 9.8	P 8.89	0.12	5.0 - 6.1	P 5.52	0.13	7.0 - 8.5	P 7.77	0.13	395
Beckman Olympus	17	2.8 - 3.4	P 3.08	0.08	5.0 - 6.1	P 5.55	0.11	6.4 - 7.8	P 7.09	0.16	3.9 - 4.8	P 4.33	0.11	5.6 - 6.8	P 6.2	0.14	56
Carolina	18	2.8 - 3.4	P 3.09	0.07	5.0 - 6.1	P 5.58	0.15	6.4 - 7.9	P 7.16	0.21	3.9 - 4.8	P 4.34	0.15	5.6 - 6.9	P 6.25	0.15	13
Ortho Vitros	19	2.8 - 3.5	P 3.14	0.08	5.0 - 6.0	P 5.5	0.13	6.2 - 7.6	P 6.94	0.15	3.9 - 4.8	P 4.35	0.09	5.5 - 6.7	P 6.12	0.11	48
Pointe Scientific	20	3.0 - 3.6	P 3.29	0.08	5.2 - 6.4	P 5.83	0.17	6.7 - 8.2	P 7.44	0.22	4.1 - 5.0	P 4.56	0.16	5.9 - 7.2	P 6.55	0.25	10
Reichert TS Meter-DSP	21	3.7 - 4.5	P 4.07	0.11	6.3 - 7.7	P 7.0	0.09	8.0 - 9.8	P 8.92	0.12	5.0 - 6.1	P 5.54	0.1	7.0 - 8.6	P 7.78	0.12	284
Roche Cobas	22	2.9 - 3.5	P 3.17	0.12	5.1 - 6.3	P 5.71	0.19	6.5 - 7.9	P 7.19	0.22	4.0 - 4.9	P 4.46	0.14	5.7 - 7.0	P 6.32	0.17	35
Siemens Dimension	23	2.9 - 3.6	P 3.23	0.09	5.2 - 6.4	P 5.83	0.14	6.7 - 8.2	P 7.45	0.16	4.1 - 5.0	P 4.54	0.11	5.9 - 7.2	P 6.51	0.14	77
Siemens biuret based	24	2.8 - 3.5	P 3.14	0.14	5.1 - 6.3	P 5.71	0.23	6.6 - 8.0	P 7.29	0.32	4.0 - 4.9	P 4.43	0.18	5.7 - 7.0	P 6.35	0.27	11

Initial Grouping bySensitivityor Principle

Bichromatic-no sam blanks	25	2.8 - 3.4	P 3.09	0.12	5.0 - 6.2	P 5.6	0.18	6.5 - 7.9	P 7.18	0.23	3.9 - 4.8	P 4.36	0.14	5.6 - 6.9	P 6.26	0.19	129
All refractometer users	26	3.6 - 4.5	P 4.05	0.12	6.3 - 7.7	P 6.98	0.12	8.0 - 9.8	P 8.89	0.12	5.0 - 6.1	P 5.52	0.13	7.0 - 8.5	P 7.77	0.13	395
Rate	27	2.8 - 3.4	P 3.09	0.09	5.0 - 6.1	P 5.58	0.14	6.4 - 7.9	P 7.15	0.19	3.9 - 4.8	P 4.34	0.14	5.6 - 6.9	P 6.24	0.14	19
Uncorrected	28	2.8 - 3.5	P 3.16	0.13	5.0 - 6.1	P 5.59	0.24	6.4 - 7.8	P 7.11	0.33	4.0 - 4.9	P 4.41	0.18	5.6 - 6.9	P 6.24	0.28	80
Bichromatic-sample blanked	29	2.9 - 3.6	P 3.23	0.09	5.2 - 6.4	P 5.82	0.14	6.7 - 8.2	P 7.45	0.16	4.1 - 5.0	P 4.54	0.11	5.9 - 7.2	P 6.51	0.14	78
Just sample blanked	30	2.9 - 3.5	P 3.17	0.12	5.1 - 6.3	P 5.71	0.19	6.5 - 7.9	P 7.19	0.22	4.0 - 4.9	P 4.46	0.14	5.7 - 7.0	P 6.32	0.17	35

Total Population

Whole Population	31	3.4 - 4.1	P 3.76	0.45	5.9 - 7.2	P 6.55	0.65	7.5 - 9.2	P 8.34	0.81	4.6 - 5.7	P 5.16	0.54	6.6 - 8.0	P 7.29	0.71	1024
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Triglycerides

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	84 - 139	P 111.5	3.8	133 - 222	P 177.9	6.1	163 - 272	P 217.9	8.0	108 - 179	P 143.6	4.9	144 - 240	P 191.8	6.2	19
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	90 - 150	P 120.3	5.5	138 - 229	P 183.5	8.1	168 - 280	P 224.4	10.5	115 - 192	P 153.5	7.2	151 - 252	P 201.2	11.3	13
Beckman GPO glycerol-unc & Beck Coult Unicel DXC	3	90 - 151	P 120.5	6.3	144 - 240	P 192.1	13.1	174 - 290	P 231.9	23.8	114 - 189	P 151.5	16.1	153 - 256	P 204.6	21.2	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	87 - 145	P 115.9	4.3	137 - 228	P 182.2	6.9	167 - 279	P 222.9	8.9	111 - 185	P 148.0	5.9	147 - 246	P 196.6	8.0	23
Beckman Olympus & Beckman AU 480	5	90 - 150	P 120.1	4.2	140 - 234	P 187.3	5.3	171 - 286	P 228.5	6.8	115 - 191	P 153.1	3.9	152 - 253	P 202.7	4.8	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	92 - 153	P 122.3	5.4	149 - 248	P 198.5	9.0	186 - 309	P 247.6	11.0	119 - 198	P 158.4	6.9	162 - 271	P 216.6	10.5	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	92 - 153	P 122.8	4.6	149 - 248	P 198.6	9.3	183 - 305	P 244.4	8.8	119 - 199	P 158.8	5.2	162 - 270	P 215.8	7.2	20
Roche Cobas & Roche Cobas Integra	8	89 - 149	P 119.2	4.5	136 - 227	P 181.4	7.3	164 - 273	P 218.5	10.2	113 - 188	P 150.3	6.1	146 - 243	P 194.5	8.9	12

Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	91 - 151	P 120.9	4.8	140 - 233	P 186.2	9.2	169 - 282	P 225.2	10.9	115 - 192	P 153.5	6.1	150 - 249	P 199.6	9.2	17
Siemens Dimension & Siemens Dimension EXL	10	82 - 136	P 108.9	4.5	132 - 219	P 175.4	7.5	163 - 271	P 216.7	9.6	106 - 177	P 141.8	6.3	143 - 238	P 190.7	8.4	55
Siemens Dimension & Siemens Dimension Xpand	11	83 - 139	P 110.9	3.1	135 - 225	P 180.1	6.6	167 - 278	P 222.1	7.9	112 - 186	P 149.1	21.2	146 - 243	P 194.5	6.4	18
Initial Grouping by Reagent																	
Abbott	12	84 - 139	P 111.5	3.8	133 - 222	P 177.9	6.1	163 - 272	P 217.9	8.0	108 - 179	P 143.6	4.9	144 - 240	P 191.8	6.2	19
Alfa Wassermann	13	90 - 150	P 120.3	5.5	138 - 229	P 183.5	8.1	168 - 280	P 224.4	10.5	115 - 192	P 153.5	7.2	151 - 252	P 201.2	11.3	13
Beckman GPO glycerol-unc	14	91 - 151	P 121.2	6.0	144 - 241	P 192.5	12.4	175 - 292	P 233.6	22.0	115 - 191	P 153.2	14.6	154 - 257	P 205.3	19.2	14
Beckman Olympus	15	88 - 147	P 117.6	4.8	138 - 230	P 184.4	6.7	169 - 281	P 225.0	8.4	113 - 188	P 150.1	5.7	149 - 249	P 199.1	7.3	48
Carolina	16	84 - 139	P 111.5	6.7	129 - 215	P 171.7	14.7	154 - 257	P 205.9	22.7	102 - 170	P 136.0	15.3	140 - 234	P 187.0	13.9	12
Ortho Vitros	17	92 - 153	P 122.5	4.8	149 - 248	P 198.4	8.7	184 - 307	P 245.8	9.4	119 - 198	P 158.6	5.7	162 - 270	P 215.9	8.4	45
Pointe Scientific	18	84 - 139	P 111.4	6.9	132 - 220	P 175.9	12.9	159 - 265	P 211.7	22.6	108 - 179	P 143.4	10.8	142 - 236	P 189.1	17.0	17
Roche Cobas	19	91 - 151	P 121.2	5.2	139 - 232	P 185.6	9.6	168 - 280	P 224.4	12.5	115 - 191	P 153.1	7.0	149 - 249	P 199.0	10.2	37
Siemens Dimension	20	82 - 137	P 109.8	5.5	133 - 222	P 177.2	8.6	164 - 274	P 219.2	11.1	108 - 180	P 144.1	12.3	144 - 241	P 192.5	9.2	80
Sterling Diagnostic	21	92 - 153	P 122.8	8.1	143 - 239	P 190.9	12.6	171 - 285	P 227.6	12.3	118 - 196	P 157.2	8.7	153 - 255	P 204.0	12.4	13
Initial Grouping by Sensitivity or Principle																	
Gly-unc/visible/GPO-based	22	87 - 145	P 116.0	7.7	138 - 230	P 183.9	12.5	169 - 281	P 225.1	17.2	112 - 187	P 149.4	11.5	149 - 248	P 198.7	13.8	314
Gly-unc/visible/INT-based	23	90 - 150	P 120.3	5.5	138 - 229	P 183.5	8.1	168 - 280	P 224.4	10.5	115 - 192	P 153.5	7.2	151 - 252	P 201.2	11.3	13
Total Population																	
Whole Population	24	87 - 145	P 116.2	7.8	138 - 230	P 183.7	12.4	169 - 281	P 224.9	16.9	112 - 187	P 149.5	11.4	149 - 248	P 198.7	13.7	341

Urea Nitrogen (BUN)

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	8 - 12	C 10.2	0.4	23 - 28	P 25.6	0.5	32 - 39	P 35.6	0.5	16 - 20	C 17.9	0.5	27 - 32	P 29.8	0.7	19
Alfa Wassermann & Alfa Wasser Excel/Alera	2	8 - 12	C 9.8	0.6	22 - 27	P 24.4	1.1	30 - 36	P 33.4	1.6	15 - 19	C 17.1	1.0	25 - 31	P 28.0	1.4	17
Beckman GLDH-rate & Beck Coulter Unicel DXC	3	9 - 13	C 10.5	0.5	23 - 28	P 25.6	0.7	33 - 39	P 35.8	1.0	16 - 20	C 18.0	0.4	27 - 33	P 30.1	0.9	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	8 - 12	C 9.9	0.3	23 - 27	P 24.9	0.9	31 - 37	P 34.0	1.1	15 - 19	C 17.4	0.6	26 - 31	P 28.6	1.2	26
Beckman Olympus & Beckman AU 480	5	8 - 12	C 10.3	0.5	23 - 28	P 25.4	1.1	32 - 38	P 34.9	1.0	16 - 20	C 18.1	0.7	27 - 32	P 29.2	0.9	25
Ortho Vitros & Ortho Vitros 3600, 5600	6	6 - 10	C 8.0	0.0	18 - 22	C 20.1	0.4	26 - 31	P 28.1	0.5	12 - 16	C 14.2	0.4	21 - 26	P 23.5	0.7	20
Ortho Vitros & Ortho Vitros not DT or ECi	7	6 - 10	C 7.9	0.3	19 - 23	C 20.6	0.7	26 - 31	P 28.6	0.7	12 - 16	C 14.4	0.6	22 - 26	P 24.0	0.4	21
Roche Cobas & Roche Cobas Integra	8	8 - 12	C 9.6	0.5	22 - 27	P 24.7	0.7	31 - 37	P 34.2	0.8	15 - 19	C 17.4	0.5	26 - 31	P 28.7	0.6	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	8 - 12	C 9.8	0.4	23 - 27	P 24.9	1.0	31 - 38	P 34.6	1.4	16 - 20	C 17.6	0.8	26 - 32	P 29.1	1.2	18
Siemens GLDH-rate & Siemens Dimension EXL	10	8 - 12	C 10.2	0.7	23 - 28	P 25.6	0.9	32 - 38	P 34.9	1.1	16 - 20	C 17.8	0.8	27 - 32	P 29.4	0.9	56
Siemens GLDH-rate & Siemens Dimension Xpand	11	8 - 12	C 9.8	0.7	23 - 27	P 25.2	1.0	31 - 38	P 34.6	1.2	15 - 19	C 17.4	0.8	27 - 32	P 29.2	1.3	17

Initial Grouping by Reagent

Abbott	12	8 - 12	C 10.2	0.4	23 - 28	P 25.6	0.5	32 - 39	P 35.6	0.5	16 - 20	C 17.9	0.5	27 - 32	P 29.8	0.7	19
Alfa Wassermann	13	8 - 12	C 9.8	0.6	22 - 27	P 24.4	1.2	30 - 37	P 33.5	1.6	15 - 19	C 17.2	1.0	26 - 31	P 28.1	1.4	18
Beckman GLDH-rate	14	8 - 12	C 10.4	0.5	23 - 28	P 25.6	0.6	32 - 39	P 35.4	1.1	16 - 20	C 17.9	0.5	27 - 33	P 29.9	1.0	15
Beckman Olympus	15	8 - 12	C 10.1	0.5	23 - 27	P 25.2	1.1	31 - 37	P 34.4	1.2	16 - 20	C 17.8	0.7	26 - 31	P 28.9	1.1	53
Carolina	16	9 - 13	C 10.7	0.5	24 - 28	P 26.0	1.4	32 - 38	P 35.1	1.9	16 - 20	C 18.2	1.1	27 - 33	P 30.0	1.5	12
Ortho Vitros	17	6 - 10	C 8.0	0.3	18 - 22	C 20.4	0.6	26 - 31	P 28.4	0.7	12 - 16	C 14.3	0.6	22 - 26	P 23.8	0.6	48
Roche Cobas	18	8 - 12	C 9.7	0.4	23 - 27	P 24.8	0.9	31 - 37	P 34.4	1.3	15 - 19	C 17.4	0.8	26 - 31	P 28.8	1.1	36
Siemens GLDH-rate	19	8 - 12	C 10.1	0.8	23 - 28	P 25.5	1.0	32 - 38	P 35.0	1.4	16 - 20	C 17.7	0.8	27 - 32	P 29.5	1.1	83
Synermed	20	8 - 12	C 9.5	0.7	22 - 26	P 24.1	1.6	30 - 36	P 32.7	2.2	15 - 19	C 16.9	1.4	25 - 30	P 27.3	1.3	10

Initial Grouping by Sensitivity or Principle

Glutamate DH-rate methods	21	8 - 12	C 10.1	1.0	23 - 27	P 25.2	1.2	31 - 38	P 34.5	1.6	16 - 20	C 17.7	0.9	26 - 32	P 29.1	1.4	289
Ammonia (NH3) diffusion	22	6 - 10	C 8.0	0.3	18 - 22	C 20.4	0.6	26 - 31	P 28.4	0.7	12 - 16	C 14.3	0.6	22 - 26	P 23.8	0.6	48

Total Population

Whole Population	23	8 - 12	C 9.8	1.2	22 - 27	P 24.5	2.0	31 - 37	P 33.7	2.7	15 - 19	C 17.2	1.5	26 - 31	P 28.3	2.2	356
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Uric Acid

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	2.4 - 3.3	P 2.85	0.07	5.5 - 7.8	P 6.65	0.11	7.5 - 10.6	P 9.03	0.14	3.9 - 5.5	P 4.74	0.08	6.4 - 9.0	P 7.68	0.07	16
Alfa Wassermann & Alfa Wasser Excel/Alera	2	2.8 - 3.9	P 3.32	0.04	5.2 - 7.3	P 6.26	0.22	7.0 - 9.8	P 8.38	0.32	4.0 - 5.6	P 4.78	0.24	5.9 - 8.3	P 7.08	0.28	10
Beckman Coulter & Beck Coulter Unicel DXC	3	2.1 - 3.0	P 2.56	0.08	4.8 - 6.7	P 5.76	0.18	6.4 - 9.0	P 7.71	0.19	3.5 - 4.9	P 4.18	0.1	5.5 - 7.7	P 6.61	0.18	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	2.2 - 3.2	P 2.7	0.04	5.1 - 7.2	P 6.13	0.08	6.9 - 9.7	P 8.28	0.12	3.7 - 5.2	P 4.43	0.07	5.9 - 8.3	P 7.07	0.15	20
Beckman Olympus & Beckman AU 480	5	2.3 - 3.2	P 2.73	0.06	5.1 - 7.2	P 6.17	0.11	6.9 - 9.8	P 8.34	0.17	3.7 - 5.2	P 4.45	0.07	5.8 - 8.2	P 7.04	0.15	15
Ortho Vitros & Ortho Vitros 3600, 5600	6	2.1 - 2.9	P 2.51	0.08	5.0 - 7.0	P 5.98	0.13	6.6 - 9.4	P 8.01	0.18	3.6 - 5.1	P 4.32	0.11	5.7 - 8.0	P 6.82	0.14	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	2.0 - 2.9	P 2.46	0.07	4.8 - 6.8	P 5.82	0.14	6.5 - 9.1	P 7.8	0.19	3.5 - 4.9	P 4.2	0.09	5.5 - 7.8	P 6.67	0.15	16
Roche Cobas & Roche Cobas Integra	8	2.2 - 3.1	P 2.63	0.08	5.1 - 7.2	P 6.19	0.11	6.9 - 9.7	P 8.33	0.24	3.7 - 5.2	P 4.42	0.12	5.9 - 8.3	P 7.08	0.18	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	2.1 - 3.0	P 2.59	0.07	5.0 - 7.1	P 6.04	0.18	6.8 - 9.6	P 8.22	0.25	3.6 - 5.1	P 4.35	0.14	5.8 - 8.1	P 6.94	0.22	17
Siemens Dimension & Siemens Dimension EXL	10	2.2 - 3.1	P 2.61	0.08	4.9 - 6.9	P 5.89	0.14	6.6 - 9.3	P 7.92	0.16	3.5 - 5.0	P 4.26	0.1	5.6 - 7.9	P 6.74	0.15	57

Siemens Dimension & Siemens Dimension Xpand	11	2.2 - 3.0	P 2.6	0.1	4.9 - 6.8	P 5.85	0.14	6.5 - 9.1	P 7.82	0.24	3.5 - 4.9	P 4.18	0.1	5.5 - 7.8	P 6.63	0.2	16
Initial Grouping by Reagent																	
Abbott Architect	12	2.4 - 3.3	P 2.85	0.07	5.5 - 7.8	P 6.65	0.11	7.5 - 10.6	P 9.03	0.14	3.9 - 5.5	P 4.74	0.08	6.4 - 9.0	P 7.68	0.07	16
Alfa Wassermann	13	2.8 - 3.9	P 3.32	0.04	5.2 - 7.3	P 6.26	0.22	7.0 - 9.8	P 8.38	0.32	4.0 - 5.6	P 4.78	0.24	5.9 - 8.3	P 7.08	0.28	10
Beckman Coulter	14	2.2 - 3.1	P 2.65	0.12	4.9 - 6.9	P 5.91	0.23	6.6 - 9.3	P 7.96	0.32	3.6 - 5.0	P 4.29	0.15	5.6 - 7.9	P 6.79	0.25	20
Beckman Olympus	15	2.3 - 3.2	P 2.71	0.06	5.1 - 7.2	P 6.14	0.11	6.9 - 9.7	P 8.3	0.16	3.7 - 5.2	P 4.43	0.08	5.8 - 8.2	P 7.04	0.16	38
Carolina	16	2.1 - 3.0	P 2.56	0.19	4.9 - 7.0	P 5.96	0.31	6.6 - 9.2	P 7.9	0.51	3.5 - 5.0	P 4.27	0.29	5.6 - 7.9	P 6.72	0.41	11
Ortho Vitros	17	2.1 - 2.9	P 2.5	0.08	4.9 - 6.9	P 5.91	0.17	6.6 - 9.3	P 7.92	0.23	3.5 - 5.0	P 4.27	0.12	5.6 - 7.9	P 6.77	0.19	35
Roche Cobas	18	2.2 - 3.1	P 2.62	0.07	5.1 - 7.1	P 6.11	0.17	6.9 - 9.7	P 8.28	0.24	3.6 - 5.1	P 4.38	0.13	5.8 - 8.2	P 7.0	0.2	34
Siemens Dimension	19	2.2 - 3.1	P 2.61	0.09	4.9 - 6.9	P 5.89	0.14	6.6 - 9.2	P 7.9	0.18	3.5 - 5.0	P 4.24	0.11	5.6 - 7.9	P 6.72	0.16	79
Initial Grouping by Sensitivity or Principle																	
Endpt-corrected(bic or SB)	20	2.2 - 3.1	P 2.68	0.21	5.1 - 7.2	P 6.14	0.3	6.9 - 9.7	P 8.3	0.44	3.7 - 5.2	P 4.45	0.23	5.8 - 8.2	P 7.03	0.34	111
Rate	21	2.2 - 3.1	P 2.61	0.1	4.9 - 7.0	P 5.95	0.2	6.6 - 9.4	P 8.0	0.3	3.6 - 5.0	P 4.28	0.15	5.6 - 8.0	P 6.8	0.24	145
Endpoint-uncorrected	22	2.4 - 3.4	P 2.88	0.3	5.2 - 7.3	P 6.26	0.43	6.9 - 9.8	P 8.36	0.56	3.8 - 5.4	P 4.59	0.38	5.9 - 8.3	P 7.09	0.54	31
Total Population																	
Whole Population	23	2.2 - 3.1	P 2.67	0.2	5.0 - 7.1	P 6.06	0.3	6.8 - 9.5	P 8.16	0.44	3.6 - 5.1	P 4.38	0.24	5.7 - 8.1	P 6.92	0.35	288