

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	125 - 187	P 155.7	3.9	59 - 88	P 73.7	2.7	190 - 285	P 237.1	5.7	37 - 56	P 46.8	2.2	171 - 256	P 213.7	5.4	20
Alfa Wassermann & Alfa Wasser Axel/Alera	2	101 - 152	P 126.6	3.4	47 - 70	P 58.5	2.1	155 - 233	P 194.0	4.3	30 - 45	P 37.8	2.9	140 - 210	P 174.6	3.4	19
Beckman Coulter & Beck Coulter Unicel DXC	3	122 - 183	P 152.9	2.6	61 - 92	P 76.8	1.6	182 - 273	P 227.5	4.0	42 - 63	P 52.3	0.9	164 - 246	P 205.3	3.4	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	107 - 161	P 133.9	4.5	51 - 76	P 63.3	2.3	161 - 242	P 201.8	6.1	32 - 49	P 40.5	1.4	146 - 219	P 182.1	6.0	26
Beckman Olympus & Beckman AU 480	5	108 - 162	P 134.9	4.0	51 - 77	P 64.1	1.9	164 - 246	P 204.6	6.2	33 - 49	P 41.1	1.5	147 - 220	P 183.6	4.8	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	126 - 188	P 156.9	7.1	67 - 100	P 83.4	6.4	179 - 269	P 224.3	7.2	48 - 72	P 60.0	6.6	164 - 246	P 205.1	6.3	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	126 - 190	P 158.0	6.2	69 - 103	P 86.1	5.6	181 - 271	P 226.2	5.6	50 - 75	P 62.5	6.0	167 - 250	P 208.4	3.7	24
Roche Cobas & Roche Cobas Integra	8	118 - 177	P 147.2	4.7	57 - 85	P 71.0	1.9	177 - 265	P 220.7	6.3	37 - 55	P 46.1	1.6	160 - 240	P 199.9	5.4	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	116 - 174	P 144.6	3.9	56 - 84	P 69.9	1.5	176 - 263	P 219.5	5.4	35 - 53	P 44.3	1.6	158 - 237	P 197.4	5.3	17
Siemens ALTI & Siemens Dimension EXL	10	128 - 192	P 160.0	4.2	62 - 94	P 78.0	2.8	192 - 288	P 239.8	6.5	40 - 61	P 50.5	2.7	175 - 262	P 218.2	5.6	46
Siemens ALTI & Siemens Dimension Xpand	11	127 - 190	P 158.3	5.3	62 - 93	P 77.6	3.2	191 - 287	P 238.9	7.8	40 - 61	P 50.6	2.5	173 - 260	P 216.6	6.4	10
Siemens Dimension & Siemens Dimension EXL	12	129 - 193	P 161.2	4.3	63 - 94	P 78.3	2.8	194 - 291	P 242.3	6.0	41 - 61	P 51.2	2.2	176 - 264	P 219.7	6.3	12
Initial Grouping by Reagent																	
Abbott	13	125 - 187	P 155.7	3.9	59 - 88	P 73.7	2.7	190 - 285	P 237.1	5.7	37 - 56	P 46.8	2.2	171 - 256	P 213.7	5.4	20
Alfa Wassermann	14	101 - 152	P 126.5	3.4	47 - 70	P 58.5	2.1	155 - 233	P 193.9	4.3	30 - 45	P 37.7	2.8	140 - 209	P 174.5	3.4	20
Beckman Coulter	15	117 - 176	P 146.3	10.1	58 - 87	P 72.1	6.6	175 - 263	P 219.1	13.5	39 - 58	P 48.2	5.5	158 - 237	P 197.6	12.1	24
Beckman Olympus	16	107 - 161	P 134.2	4.3	51 - 76	P 63.6	2.2	162 - 243	P 202.8	6.3	33 - 49	P 40.7	1.5	146 - 219	P 182.6	5.5	48
Carolina	17	114 - 171	P 142.7	4.7	55 - 82	P 68.5	3.4	172 - 258	P 215.3	6.7	36 - 54	P 44.7	2.0	157 - 236	P 196.3	7.1	12
Ortho Vitros	18	126 - 189	P 157.4	6.5	68 - 102	P 85.1	6.0	180 - 270	P 225.0	6.6	49 - 74	P 61.5	6.2	165 - 248	P 206.7	5.6	47
Roche Cobas	19	116 - 175	P 145.6	4.2	56 - 84	P 70.2	1.7	176 - 264	P 220.3	5.6	36 - 54	P 44.9	1.7	159 - 238	P 198.7	5.1	38
Siemens ALTI	20	128 - 192	P 159.6	4.4	62 - 93	P 77.9	2.8	192 - 288	P 239.6	6.5	40 - 60	P 50.4	2.7	174 - 261	P 217.9	5.6	62
Siemens Dimension	21	129 - 193	P 161.2	4.1	63 - 94	P 78.2	2.9	194 - 291	P 242.1	6.7	41 - 61	P 51.0	2.3	175 - 263	P 219.1	6.4	21
Initial Grouping by Sensitivity or Principle																	
Other no P5P	22	107 - 161	P 134.1	9.7	51 - 77	P 63.9	5.9	162 - 243	P 202.7	13.3	33 - 50	P 41.7	4.6	146 - 220	P 183.0	13.0	45
Standardized methods	23	117 - 175	P 146.1	12.7	56 - 84	P 70.1	6.9	175 - 263	P 219.2	18.3	36 - 55	P 45.5	5.1	159 - 238	P 198.5	17.1	126
Other P5P	24	120 - 180	P 150.2	17.0	59 - 88	P 73.3	8.7	174 - 262	P 218.1	15.4	37 - 55	P 45.8	5.7	165 - 248	P 206.5	18.2	10
Vitros and related methods	25	126 - 189	P 157.4	6.5	68 - 102	P 85.1	6.0	180 - 270	P 225.0	6.6	49 - 74	P 61.5	6.2	165 - 248	P 206.7	5.6	47
Roche and related	26	116 - 175	P 145.6	4.2	56 - 84	P 70.2	1.7	176 - 264	P 220.3	5.6	36 - 54	P 44.9	1.7	159 - 238	P 198.7	5.1	38
Siemens and related	27	128 - 192	P 159.9	4.8	62 - 93	P 77.9	3.0	192 - 288	P 240.2	7.3	40 - 61	P 50.5	2.7	174 - 262	P 218.1	6.5	86
Total Population																	
Whole Population	28	120 - 179	P 149.5	12.7	59 - 88	P 73.3	8.4	179 - 268	P 223.3	17.5	39 - 58	P 48.2	7.3	162 - 243	P 202.7	16.5	355
Albumin																	
Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	2.9 - 3.5	P 3.22	0.08	2.2 - 2.7	P 2.43	0.06	3.6 - 4.3	P 3.95	0.09	2.0 - 2.4	P 2.18	0.08	3.4 - 4.1	P 3.75	0.09	11
Alfa Wassermann & Alfa Wasser Axel/Alera	2	3.0 - 3.7	P 3.38	0.14	2.3 - 2.8	P 2.58	0.09	3.7 - 4.5	P 4.13	0.15	2.1 - 2.6	P 2.34	0.09	3.5 - 4.3	P 3.92	0.14	17
Beckman BCP & Beck Coulter Unicel DXC	3	2.5 - 3.0	P 2.75	0.05	2.0 - 2.5	P 2.25	0.05	2.9 - 3.6	P 3.27	0.07	1.8 - 2.3	P 2.05	0.05	2.8 - 3.4	P 3.12	0.06	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	2.9 - 3.6	P 3.25	0.12	2.2 - 2.7	P 2.43	0.08	3.7 - 4.5	P 4.07	0.14	1.9 - 2.3	P 2.13	0.08	3.4 - 4.2	P 3.83	0.09	25
Beckman Olympus & Beckman AU 480	5	3.0 - 3.6	P 3.3	0.07	2.2 - 2.7	P 2.45	0.06	3.7 - 4.5	P 4.07	0.08	1.9 - 2.4	P 2.15	0.05	3.5 - 4.2	P 3.86	0.06	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	2.8 - 3.4	P 3.06	0.11	2.0 - 2.4	P 2.21	0.1	3.6 - 4.3	P 3.95	0.16	1.7 - 2.1	P 1.93	0.09	3.3 - 4.1	P 3.71	0.11	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	2.7 - 3.3	P 3.03	0.09	2.0 - 2.4	P 2.19	0.07	3.6 - 4.4	P 3.97	0.17	1.7 - 2.1	P 1.93	0.07	3.4 - 4.1	P 3.75	0.17	24
Siemens BCP & Siemens Dimension EXL	8	2.3 - 2.8	P 2.56	0.07	1.9 - 2.3	P 2.07	0.05	2.7 - 3.3	P 3.04	0.06	1.7 - 2.1	P 1.91	0.03	2.6 - 3.2	P 2.92	0.06	58
Siemens BCP & Siemens Dimension Xpand	9	2.3 - 2.8	P 2.52	0.11	1.8 - 2.2	P 2.04	0.08	2.7 - 3.3	P 3.01	0.13	1.7 - 2.1	P 1.87	0.07	2.6 - 3.2	P 2.89	0.11	17
Initial Grouping by Reagent																	
Abbott Architect	10	2.9 - 3.5	P 3.22	0.08	2.2 - 2.7	P 2.43	0.06	3.6 - 4.3	P 3.95	0.09	2.0 - 2.4	P 2.18	0.08	3.4 - 4.1	P 3.75	0.09	11
Alfa Wassermann	11	3.0 - 3.7	P 3.38	0.14	2.3 - 2.8	P 2.58	0.09	3.7 - 4.5	P 4.13	0.15	2.1 - 2.6	P 2.34	0.09	3.5 - 4.3	P 3.92	0.14	18
Beckman BCP	12	2.5 - 3.0	P 2.75	0.05	2.0 - 2.5	P 2.25	0.05	2.9 - 3.6	P 3.27	0.07	1.8 - 2.3	P 2.05	0.05	2.8 - 3.4	P 3.12	0.06	13
Beckman Olympus	13	2.9 - 3.6	P 3.27	0.1	2.2 - 2.7	P 2.44	0.07	3.7 - 4.5	P 4.07	0.12	1.9 - 2.4	P 2.14	0.07	3.5 - 4.2	P 3.85	0.08	49

Carolina BCG	14	3.0 - 3.7	P 3.38	0.18	2.4 - 2.9	P 2.62	0.1	3.6 - 4.4	P 3.97	0.2	2.1 - 2.6	P 2.34	0.08	3.4 - 4.2	P 3.8	0.17	10
Ortho Vitros	15	2.7 - 3.3	P 3.04	0.11	2.0 - 2.4	P 2.2	0.08	3.6 - 4.4	P 3.97	0.17	1.7 - 2.1	P 1.93	0.07	3.4 - 4.1	P 3.75	0.16	47
Pointe Scientific	16	3.1 - 3.8	P 3.44	0.32	2.3 - 2.8	P 2.57	0.2	3.8 - 4.7	P 4.26	0.36	2.1 - 2.5	P 2.31	0.16	3.6 - 4.3	P 3.95	0.31	10
Roche Cobas	17	3.2 - 3.9	P 3.54	0.1	2.4 - 2.9	P 2.62	0.09	3.9 - 4.8	P 4.35	0.14	2.1 - 2.6	P 2.32	0.11	3.8 - 4.6	P 4.22	0.46	17
Roche Cobas BCG, gen II	18	3.2 - 3.9	P 3.54	0.09	2.4 - 2.9	P 2.66	0.06	3.9 - 4.8	P 4.33	0.09	2.1 - 2.6	P 2.33	0.09	3.7 - 4.5	P 4.1	0.09	20
Siemens BCP	19	2.3 - 2.8	P 2.56	0.08	1.9 - 2.3	P 2.06	0.06	2.7 - 3.3	P 3.04	0.08	1.7 - 2.1	P 1.9	0.05	2.6 - 3.2	P 2.91	0.07	83
Initial Grouping bySensitivityor Principle																	
BCP-bromcresol purple	20	2.3 - 2.8	P 2.59	0.1	1.9 - 2.3	P 2.1	0.09	2.8 - 3.4	P 3.08	0.12	1.7 - 2.1	P 1.94	0.08	2.6 - 3.2	P 2.94	0.1	108
BCG-rapid (60 sec or less)	21	2.9 - 3.5	P 3.19	0.18	2.1 - 2.6	P 2.35	0.14	3.6 - 4.4	P 4.02	0.18	1.9 - 2.3	P 2.07	0.14	3.4 - 4.2	P 3.8	0.16	119
BCG-bromcresol green	22	3.1 - 3.8	P 3.42	0.18	2.3 - 2.8	P 2.58	0.11	3.8 - 4.6	P 4.18	0.23	2.1 - 2.5	P 2.31	0.1	3.6 - 4.4	P 3.98	0.31	120
Total Population																	
Whole Population	23	2.8 - 3.4	P 3.08	0.38	2.1 - 2.6	P 2.35	0.23	3.4 - 4.2	P 3.78	0.51	1.9 - 2.3	P 2.11	0.19	3.2 - 4.0	P 3.6	0.49	348

Alkaline Phosphatase

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	150 - 279	P 214.7	12.6	79 - 147	P 112.7	6.2	213 - 395	P 304.1	17.3	54 - 100	P 77.2	4.3	194 - 361	P 277.8	17.3	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	139 - 257	P 198.0	13.9	74 - 137	P 105.2	7.0	196 - 364	P 279.9	17.9	50 - 93	P 71.7	4.9	180 - 334	P 256.9	17.3	18
Beckman Coulter & Beck Coult Unicel DXC	3	131 - 243	P 187.1	8.5	69 - 128	P 98.5	5.1	188 - 349	P 268.1	13.8	48 - 88	P 67.9	2.7	171 - 317	P 243.9	11.5	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	138 - 256	P 197.2	17.0	72 - 134	P 103.2	8.5	197 - 366	P 281.7	23.4	49 - 91	P 70.2	5.7	179 - 333	P 255.9	22.4	22
Beckman Olympus & Beckman AU 480	5	134 - 249	P 191.6	19.3	71 - 132	P 101.4	10.0	192 - 356	P 274.1	26.8	48 - 89	P 68.8	6.8	173 - 321	P 246.8	21.5	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	102 - 190	P 145.8	8.5	65 - 121	P 93.2	5.2	117 - 218	P 167.8	11.8	48 - 89	P 68.2	4.9	114 - 211	P 162.6	9.5	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	101 - 188	P 144.5	8.5	66 - 122	P 94.2	4.3	115 - 214	P 164.6	9.0	49 - 91	P 70.3	3.7	113 - 209	P 161.0	10.6	24
Roche IFCC Gen. 2 & Roche Cobas Integra	8	147 - 274	P 210.4	6.4	78 - 144	P 111.0	3.2	211 - 391	P 300.8	10.1	53 - 99	P 75.8	2.2	191 - 356	P 273.5	7.5	11
Roche IFCC Gen. 2 & Roche e/c, 1XX, X000, Elec series	9	143 - 266	P 204.9	9.0	75 - 140	P 107.4	4.6	204 - 379	P 291.9	11.4	51 - 95	P 73.4	3.1	186 - 345	P 265.1	11.2	14
Siemens Dimension & Siemens Dimension EXL	10	160 - 297	P 228.7	7.9	84 - 156	P 119.8	4.5	230 - 426	P 327.9	11.6	57 - 106	P 81.8	3.6	209 - 389	P 299.2	10.4	36
Siemens Dimension & Siemens Dimension Xpand	11	160 - 298	P 229.1	9.5	83 - 155	P 119.2	3.7	229 - 424	P 326.5	13.2	57 - 105	P 80.9	2.4	210 - 389	P 299.4	10.9	11
Siemens Dimension IFCC & Siemens Dimension EXL	12	159 - 295	P 227.0	6.5	83 - 155	P 119.2	3.7	230 - 426	P 327.9	9.2	57 - 106	P 81.3	2.7	209 - 388	P 298.6	8.8	20

Initial Grouping byReagent

Abbott	13	150 - 279	P 214.7	12.6	79 - 147	P 112.7	6.2	213 - 395	P 304.1	17.3	54 - 100	P 77.2	4.3	194 - 361	P 277.8	17.3	18
Alfa Wassermann	14	139 - 258	P 198.6	13.8	74 - 137	P 105.5	6.9	197 - 365	P 280.8	17.9	50 - 93	P 71.9	4.8	180 - 335	P 257.6	17.0	19
Beckman Coulter	15	133 - 246	P 189.6	12.9	70 - 129	P 99.4	7.0	190 - 352	P 271.1	18.4	48 - 89	P 68.2	4.3	172 - 320	P 246.1	17.1	24
Beckman Olympus	16	136 - 253	P 194.8	18.0	72 - 133	P 102.4	9.2	195 - 362	P 278.3	24.9	49 - 91	P 69.7	6.2	176 - 328	P 252.0	22.2	43
Carolina	17	131 - 243	P 187.0	25.0	70 - 131	P 100.4	12.3	185 - 344	P 264.7	35.4	48 - 89	P 68.7	8.1	169 - 314	P 241.7	34.9	15
Ortho Vitros	18	102 - 190	P 145.8	8.8	66 - 122	P 94.0	4.8	117 - 217	P 167.0	10.7	49 - 90	P 69.3	4.3	114 - 212	P 162.7	10.7	47
Pointe Scientific	19	153 - 285	P 219.0	20.7	81 - 150	P 115.7	11.3	216 - 402	P 309.0	29.1	54 - 101	P 77.7	6.0	190 - 352	P 270.9	35.9	10
Roche IFCC Gen. 2	20	146 - 271	P 208.2	8.2	76 - 142	P 109.3	4.3	207 - 385	P 296.4	11.4	52 - 97	P 74.7	3.0	189 - 350	P 269.6	10.5	32
Siemens Dimension	21	160 - 297	P 228.2	8.4	84 - 155	P 119.5	4.4	229 - 425	P 326.6	11.8	57 - 106	P 81.5	3.7	209 - 388	P 298.4	10.6	53
Siemens Dimension IFCC	22	159 - 296	P 227.4	7.8	84 - 155	P 119.4	4.5	230 - 427	P 328.7	10.6	57 - 106	P 81.2	3.8	209 - 389	P 299.2	9.0	28

Initial Grouping bySensitivityor Principle

IFCC Standardized	23	140 - 260	P 199.9	20.7	74 - 137	P 105.7	10.6	199 - 369	P 283.6	30.1	51 - 94	P 72.4	7.1	181 - 336	P 258.3	27.7	175
Vitros and related methods	24	102 - 190	P 145.8	8.8	66 - 122	P 94.0	4.8	117 - 217	P 167.0	10.7	49 - 90	P 69.3	4.3	114 - 212	P 162.7	10.7	47
IFCC Gen 2	25	152 - 282	P 217.0	12.5	80 - 148	P 113.9	6.7	218 - 405	P 311.7	19.6	54 - 101	P 77.7	4.7	198 - 368	P 283.2	17.7	60
Siemens and related	26	159 - 295	P 227.3	9.1	83 - 155	P 119.1	4.9	228 - 423	P 325.2	13.1	57 - 106	P 81.2	3.9	208 - 386	P 297.0	11.8	56

Total Population

Whole Population	27	140 - 261	P 200.5	29.1	76 - 140	P 107.9	11.4	196 - 364	P 279.7	53.4	52 - 97	P 74.5	7.1	179 - 333	P 256.0	45.8	347
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Aspartate Aminotransferase (AST or SGOT)

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	168 - 252	P 209.8	3.2	122 - 182	P 152.0	3.1	213 - 320	P 266.5	5.3	107 - 161	P 133.9	3.2	201 - 302	P 251.6	5.2	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	152 - 228	P 190.0	5.0	111 - 167	P 139.2	3.1	194 - 291	P 242.6	6.4	100 - 149	P 124.5	3.4	183 - 275	P 229.2	5.6	19
Beckman Coulter & Beck Coult Unicel DXC	3	165 - 247	P 206.2	3.9	121 - 182	P 151.3	3.0	209 - 313	P 260.9	4.4	108 - 162	P 134.8	2.2	198 - 297	P 247.9	4.9	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	146 - 218	P 182.0	8.4	105 - 157	P 131.0	4.6	184 - 276	P 230.1	10.1	93 - 140	P 116.7	5.4	174 - 261	P 217.4	9.9	26
Beckman Olympus & Beckman AU 480	5	147 - 221	P 184.3	7.5	107 - 161	P 134.0	6.1	187 - 280	P 233.2	9.3	95 - 142	P 118.4	5.0	175 - 263	P 219.3	7.4	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	181 - 272	P 226.4	7.4	124 - 186	P 155.1	5.6	245 - 368	P 306.8	11.8	107 - 160	P 133.2	5.3	228 - 342	P 284.9	13.0	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	180 - 270	P 225.0	5.1	122 - 183	P 152.6	4.6	246 - 369	P 307.9	8.1	106 - 159	P 132.5	3.9	229 - 344	P 286.6	8.3	24
Roche Cobas & Roche Cobas Integra	8	170 - 255	P 212.3	3.9	123 - 185	P 154.2	3.1	216 - 324	P 270.3	17.0	109 - 164	P 136.6	2.7	202 - 303	P 252.1	5.8	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	168 - 252	P 210.1	8.9	122 - 183	P 152.8	6.3	213 - 320	P 266.5	9.9	108 - 162	P 135.1	5.5	201 - 301	P 251.2	10.3	17
Siemens Dimension & Siemens Dimension EXL	10	173 - 259	P 216.1	6.7	124 - 185	P 154.4	4.3	221 - 332	P 276.7	8.4	108 - 162	P 134.7	4.5	208 - 313	P 260.5	7.9	47
Siemens Dimension & Siemens Dimension Xpand	11	174 - 261	P 217.7	6.6	124 - 186	P 155.3	4.7	222 - 333	P 277.5	8.0	108 - 162	P 135.3	3.7	209 - 313	P 261.2	7.4	16

Initial Grouping byReagent

Abbott Architect	12	168 - 252	P 209.8	3.2	122 - 182	P 152.0	3.1	213 - 320	P 266.5	5.3	107 - 161	P 133.9	3.2	201 - 302	P 251.6	5.2	16
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Alfa Wassermann	13	152 - 228	P 189.8	5.0	111 - 167	P 139.0	3.2	194 - 291	P 242.4	6.4	99 - 149	P 124.2	3.6	183 - 275	P 228.9	5.7	20
Beckman Coulter	14	157 - 236	P 196.6	13.1	115 - 172	P 143.6	10.3	199 - 298	P 248.6	16.7	102 - 153	P 127.5	9.8	189 - 283	P 235.8	15.9	24
Beckman Olympus	15	147 - 220	P 183.3	8.1	106 - 159	P 132.5	5.5	185 - 278	P 231.6	9.7	94 - 141	P 117.6	5.2	175 - 262	P 218.6	9.0	48
Carolina	16	176 - 264	P 220.3	14.5	128 - 191	P 159.4	10.0	223 - 334	P 278.3	19.8	113 - 170	P 141.3	8.5	208 - 312	P 260.3	18.3	16
Ortho Vitros	17	180 - 270	P 225.4	6.1	123 - 184	P 153.5	5.2	246 - 368	P 307.0	9.8	106 - 159	P 132.7	4.6	227 - 341	P 284.2	11.4	47
Roche Cobas	18	167 - 251	P 209.1	8.1	122 - 182	P 151.9	6.2	212 - 318	P 265.4	13.6	108 - 161	P 134.4	5.5	199 - 299	P 249.2	9.8	38
Siemens Dimension	19	174 - 260	P 216.9	6.7	124 - 186	P 155.0	4.5	222 - 333	P 277.4	8.2	108 - 162	P 135.0	4.3	209 - 313	P 261.2	7.6	71
Siemens P5P	20	174 - 262	P 218.1	5.9	124 - 186	P 154.6	4.4	222 - 332	P 277.0	8.2	108 - 161	P 134.4	3.3	210 - 315	P 262.4	9.9	10
Synmed	21	192 - 288	P 240.2	14.8	136 - 204	P 169.7	9.6	242 - 363	P 302.8	15.7	125 - 188	P 156.7	11.5	223 - 335	P 279.3	16.0	10
Initial Grouping bySensitivityor Principle																	
Other no P5P	22	161 - 241	P 201.0	18.2	118 - 176	P 147.0	11.8	205 - 307	P 255.8	22.0	105 - 158	P 131.5	10.1	193 - 290	P 241.4	19.6	50
Standardized methods	23	156 - 234	P 195.0	16.2	114 - 171	P 142.4	11.7	197 - 295	P 245.8	22.4	101 - 151	P 125.7	10.7	186 - 279	P 232.5	20.5	127
Vitros and related	24	180 - 270	P 225.4	6.1	123 - 184	P 153.5	5.2	246 - 368	P 307.0	9.8	106 - 159	P 132.7	4.6	227 - 341	P 284.2	11.4	47
Roche and related	25	167 - 251	P 209.1	8.1	122 - 182	P 151.9	6.2	212 - 318	P 265.4	13.6	108 - 161	P 134.4	5.5	199 - 299	P 249.2	9.8	38
Siemens and related	26	174 - 260	P 216.9	6.6	124 - 186	P 155.1	4.6	222 - 333	P 277.3	8.3	108 - 162	P 135.1	4.3	209 - 314	P 261.3	8.1	85
Other P5P	27	190 - 286	P 238.1	15.6	135 - 202	P 168.4	9.7	240 - 360	P 299.9	17.5	124 - 186	P 155.0	12.0	222 - 334	P 278.0	15.8	11
Total Population																	
Whole Population	28	166 - 249	P 207.7	18.0	119 - 179	P 149.1	11.0	213 - 320	P 266.5	27.4	105 - 158	P 131.4	10.0	200 - 301	P 250.5	24.0	359

Bicarbonate (Total CO2)

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	19 - 28	P 23.2	1.8	13 - 21	C 16.5	1.3	24 - 37	P 30.5	2.4	11 - 19	C 14.6	1.3	23 - 34	P 28.2	2.2	17
Alfa Wassermann & Alfa Wasser Excel/Alera	2	21 - 32	P 26.4	2.9	16 - 24	C 19.6	2.4	27 - 41	P 33.8	3.2	13 - 21	C 16.9	2.2	25 - 38	P 31.3	2.9	17
Beckman Coulter & Beck Coult Unicel DXC	3	21 - 31	P 25.7	1.6	15 - 23	C 19.1	1.5	26 - 39	P 32.9	1.8	13 - 21	C 17.0	1.3	25 - 37	P 31.1	1.8	14
Beckman Olympus & Beck Olym AU 400/600/5400	4	21 - 32	P 26.8	2.5	16 - 24	C 19.5	2.0	28 - 43	P 35.5	2.9	13 - 21	C 17.0	1.6	26 - 39	P 32.8	3.0	26
Beckman Olympus & Beckman AU 480	5	21 - 31	P 26.2	2.7	15 - 23	C 19.0	2.0	28 - 42	P 35.0	3.0	12 - 20	C 16.4	1.6	26 - 38	P 31.9	2.8	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	19 - 29	P 24.0	1.6	13 - 21	C 16.7	0.8	25 - 38	P 31.6	2.5	11 - 19	C 14.5	1.4	23 - 35	P 29.1	2.9	16
Ortho Vitros & Ortho Vitros not DT or ECI	7	20 - 30	P 24.6	1.3	13 - 21	C 16.7	1.4	25 - 37	P 31.0	1.8	10 - 18	C 13.8	1.3	22 - 33	P 27.3	2.0	21
Roche Cobas & Roche Cobas Integra	8	20 - 30	P 25.0	2.4	14 - 22	C 18.4	2.5	25 - 38	P 31.7	2.6	12 - 20	C 15.9	2.6	23 - 34	P 28.3	2.5	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	19 - 28	P 23.2	2.7	12 - 20	C 16.3	1.9	23 - 35	P 29.2	3.3	10 - 18	C 14.1	1.7	22 - 33	P 27.7	3.0	15
Siemens ECO2 & Siemens Dimension EXL	10	23 - 34	P 28.3	1.8	17 - 25	P 20.9	1.6	28 - 42	P 35.2	2.0	14 - 22	C 18.4	1.4	26 - 40	P 33.1	2.2	56
Siemens ECO2 & Siemens Dimension Xpand	11	22 - 33	P 27.6	2.5	17 - 25	P 20.7	1.2	28 - 42	P 35.4	2.3	15 - 23	C 18.7	1.4	26 - 39	P 32.4	2.3	16

Initial Grouping byReagent

Abbott Architect	12	19 - 28	P 23.2	1.8	13 - 21	C 16.5	1.3	24 - 37	P 30.5	2.4	11 - 19	C 14.6	1.3	23 - 34	P 28.2	2.2	17
Alfa Wassermann	13	21 - 32	P 26.4	2.8	16 - 24	C 19.7	2.4	27 - 41	P 34.0	3.2	13 - 21	C 17.0	2.2	25 - 38	P 31.5	2.9	18
Beckman Coulter	14	20 - 30	P 25.3	2.6	15 - 23	C 18.8	2.1	26 - 39	P 32.8	3.1	12 - 20	C 16.4	2.0	24 - 37	P 30.6	3.0	24
Beckman Olympus	15	21 - 32	P 26.4	2.6	15 - 23	C 19.2	2.0	28 - 42	P 35.2	2.9	13 - 21	C 16.6	1.7	26 - 39	P 32.3	3.0	49
Carolina	16	21 - 31	P 26.0	3.0	16 - 24	C 19.8	2.4	26 - 40	P 33.0	2.8	13 - 21	C 17.1	2.1	25 - 37	P 31.1	3.0	17
Ortho Vitros	17	19 - 29	P 24.2	1.4	13 - 21	C 16.6	1.1	25 - 37	P 31.1	2.1	10 - 18	C 14.1	1.3	22 - 34	P 28.0	2.5	42
Roche Cobas	18	19 - 29	P 24.0	2.6	13 - 21	C 17.2	2.2	24 - 37	P 30.5	3.1	11 - 19	C 14.8	2.1	22 - 34	P 28.1	2.8	33
Sekisui	19	19 - 28	P 23.4	2.3	13 - 21	C 16.9	2.1	24 - 35	P 29.5	3.1	11 - 19	C 15.0	3.1	22 - 33	P 27.8	3.4	11
Siemens ECO2	20	22 - 34	P 28.0	2.1	17 - 25	P 20.8	1.6	28 - 42	P 35.2	2.1	14 - 22	C 18.4	1.4	26 - 39	P 32.9	2.2	80

Initial Grouping bySensitivityor Principle

UV/kinetic (rate) methods	21	20 - 29	P 24.5	2.4	14 - 22	C 17.9	2.3	24 - 37	P 30.6	2.8	11 - 19	C 15.1	1.9	23 - 34	P 28.4	2.6	45
Diluted ISE results	22	20 - 30	P 25.0	3.1	14 - 22	C 18.3	2.5	26 - 39	P 32.4	3.6	12 - 20	C 15.9	2.1	24 - 36	P 30.1	3.5	49
UV/bichromatic methods	23	21 - 31	P 26.2	2.7	15 - 23	C 19.1	2.2	28 - 41	P 34.4	3.3	13 - 21	C 16.6	1.8	25 - 38	P 31.7	3.0	75
UV/uncorrected methods	24	20 - 30	P 25.1	3.1	15 - 23	C 18.5	2.7	25 - 38	P 31.5	4.4	12 - 20	C 16.0	2.6	23 - 35	P 29.2	4.7	47
Undiluted ISE results	25	19 - 29	P 24.2	1.4	13 - 21	C 16.6	1.1	25 - 37	P 31.1	2.1	10 - 18	C 14.1	1.3	22 - 34	P 28.0	2.5	42
All other methods	26	22 - 34	P 28.0	2.1	17 - 25	P 20.8	1.6	28 - 42	P 35.2	2.1	14 - 22	C 18.4	1.4	26 - 39	P 32.9	2.2	80
Total Population																	
Whole Population	27	21 - 31	P 25.8	2.9	15 - 23	C 18.8	2.5	26 - 40	P 33.0	3.6	12 - 20	C 16.3	2.3	24 - 37	P 30.5	3.6	340

Bilirubin, Total

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	1.5 - 2.3	C 1.91	0.14	0.7 - 1.5	C 1.05	0.09	2.2 - 3.3	P 2.72	0.19	0.4 - 1.2	C 0.75	0.08	2.0 - 3.0	P 2.53	0.19	18
Alfa Wassermann & Alfa Wasser Excel/Alera	2	1.8 - 2.8	P 2.31	0.14	0.9 - 1.7	C 1.26	0.08	2.7 - 4.1	P 3.41	0.24	0.5 - 1.3	C 0.92	0.08	2.5 - 3.8	P 3.13	0.22	19
Beckman Coulter & Beck Coult Unicel DXC	3	1.9 - 2.8	P 2.37	0.17	0.9 - 1.7	C 1.31	0.13	2.7 - 4.1	P 3.39	0.18	0.6 - 1.4	C 0.97	0.14	2.5 - 3.7	P 3.11	0.2	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	1.6 - 2.4	P 2.04	0.11	0.7 - 1.5	C 1.1	0.09	2.4 - 3.5	P 2.95	0.18	0.4 - 1.2	C 0.82	0.05	2.2 - 3.3	P 2.74	0.19	26
Beckman Olympus & Beckman AU 480	5	1.6 - 2.4	P 2.0	0.13	0.7 - 1.5	C 1.09	0.09	2.3 - 3.5	P 2.93	0.19	0.4 - 1.2	C 0.78	0.06	2.2 - 3.3	P 2.73	0.19	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	1.6 - 2.4	P 2.0	0.19	0.6 - 1.4	C 1.0	0.12	2.4 - 3.5	P 2.95	0.26	0.3 - 1.1	C 0.66	0.11	2.2 - 3.3	P 2.74	0.23	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	1.7 - 2.5	P 2.08	0.19	0.7 - 1.5	C 1.07	0.11	2.5 - 3.7	P 3.07	0.21	0.3 - 1.1	C 0.73	0.12	2.2 - 3.4	P 2.81	0.24	23

Siemens Dimension & Siemens Dimension EXL	8	1.5 - 2.3	C 1.91	0.12	0.6 - 1.4	C 1.0	0.08	2.3 - 3.4	P 2.82	0.17	0.3 - 1.1	C 0.71	0.07	2.1 - 3.1	P 2.62	0.17	54	
Siemens Dimension & Siemens Dimension Xpand	9	1.5 - 2.3	C 1.86	0.15	0.6 - 1.4	C 0.99	0.1	2.2 - 3.3	P 2.75	0.22	0.3 - 1.1	C 0.69	0.07	2.0 - 3.0	P 2.54	0.21	17	
Initial Grouping by Reagent																		
Abbott Architect	10	1.5 - 2.3	C 1.91	0.14	0.7 - 1.5	C 1.05	0.09	2.2 - 3.3	P 2.72	0.19	0.4 - 1.2	C 0.75	0.08	2.0 - 3.0	P 2.53	0.19	18	
Alfa Wassermann	11	1.8 - 2.8	P 2.3	0.14	0.9 - 1.7	C 1.26	0.08	2.7 - 4.1	P 3.4	0.24	0.5 - 1.3	C 0.92	0.08	2.5 - 3.8	P 3.13	0.22	20	
Beckman Coulter	12	1.8 - 2.7	P 2.23	0.25	0.8 - 1.6	C 1.22	0.16	2.6 - 3.8	P 3.2	0.31	0.5 - 1.3	C 0.9	0.14	2.4 - 3.6	P 2.99	0.27	24	
Beckman Olympus	13	1.6 - 2.4	P 2.02	0.12	0.7 - 1.5	C 1.1	0.09	2.4 - 3.5	P 2.94	0.18	0.4 - 1.2	C 0.8	0.06	2.2 - 3.3	P 2.73	0.19	48	
Carolina	14	1.7 - 2.6	P 2.15	0.23	0.8 - 1.6	C 1.2	0.17	2.5 - 3.7	P 3.09	0.36	0.5 - 1.3	C 0.89	0.12	2.3 - 3.5	P 2.88	0.29	14	
Ortho Vitros	15	1.6 - 2.4	P 2.04	0.2	0.6 - 1.4	C 1.03	0.12	2.4 - 3.6	P 3.02	0.25	0.3 - 1.1	C 0.7	0.13	2.2 - 3.3	P 2.78	0.25	47	
Pointe Scientific	16	1.5 - 2.3	C 1.88	0.15	0.6 - 1.4	C 0.96	0.14	2.2 - 3.3	P 2.77	0.24	0.3 - 1.1	C 0.72	0.1	2.0 - 3.1	P 2.55	0.23	11	
Roche Cobas	17	1.4 - 2.2	C 1.79	0.12	0.5 - 1.3	C 0.94	0.07	2.1 - 3.2	P 2.65	0.21	0.3 - 1.1	C 0.68	0.19	2.0 - 2.9	P 2.44	0.19	23	
Roche Cobas BLTS	18	1.4 - 2.2	C 1.77	0.09	0.5 - 1.3	C 0.93	0.05	2.1 - 3.2	P 2.63	0.14	0.3 - 1.1	C 0.69	0.05	2.0 - 2.9	P 2.45	0.14	15	
Siemens Dimension	19	1.5 - 2.3	C 1.9	0.13	0.6 - 1.4	C 1.0	0.09	2.2 - 3.4	P 2.81	0.2	0.3 - 1.1	C 0.71	0.07	2.1 - 3.1	P 2.6	0.2	80	
Initial Grouping by Sensitivity or Principle																		
Oxidation	20	1.6 - 2.4	C 1.98	0.26	0.7 - 1.5	C 1.05	0.19	2.3 - 3.4	P 2.84	0.4	0.4 - 1.2	C 0.78	0.16	2.2 - 3.3	P 2.71	0.34	12	
Diazonium ion	21	1.6 - 2.4	P 2.01	0.19	0.7 - 1.5	C 1.07	0.12	2.3 - 3.5	P 2.93	0.27	0.4 - 1.2	C 0.76	0.12	2.2 - 3.3	P 2.72	0.25	137	
Diazo/DMSO	22	1.7 - 2.6	P 2.14	0.26	0.7 - 1.5	C 1.13	0.17	2.5 - 3.8	P 3.15	0.37	0.4 - 1.2	C 0.83	0.13	2.3 - 3.5	P 2.91	0.34	36	
Diazo/caffeine-benzoate	23	1.6 - 2.4	C 1.97	0.21	0.6 - 1.4	C 1.04	0.14	2.3 - 3.5	P 2.89	0.28	0.4 - 1.2	C 0.75	0.12	2.1 - 3.2	P 2.68	0.27	116	
Diazo/surfactant	24	1.4 - 2.2	C 1.82	0.2	0.5 - 1.4	C 0.95	0.09	2.2 - 3.2	P 2.69	0.21	0.3 - 1.1	C 0.7	0.15	2.0 - 3.1	P 2.55	0.26	49	
Total Population																		
Whole Population	25	1.6 - 2.4	C 1.98	0.22	0.7 - 1.5	C 1.05	0.14	2.3 - 3.5	P 2.91	0.3	0.4 - 1.2	C 0.75	0.13	2.2 - 3.2	P 2.7	0.28	354	

Calcium

Initial Grouping by Reagent and Instrument																		
Abbott & Abbott Architect c, ci, i	1	9.5 - 11.5	C 10.52	0.12	7.4 - 9.4	C 8.44	0.08	11.5 - 13.5	C 12.46	0.13	6.9 - 8.9	C 7.85	0.07	10.9 - 12.9	C 11.85	0.11	18	
Alfa Wassermann & Alfa Wasser Axel/Alera	2	9.6 - 11.6	C 10.55	0.4	7.9 - 9.9	C 8.89	0.27	11.6 - 13.6	C 12.56	0.27	7.4 - 9.4	C 8.39	0.28	11.1 - 13.1	C 12.06	0.34	19	
Beckman Olympus Arsenazo & Beck Olym AU 400/600/5400	3	9.3 - 11.3	C 10.25	0.24	7.4 - 9.4	C 8.36	0.21	11.1 - 13.1	C 12.09	0.31	6.7 - 8.7	C 7.74	0.23	10.5 - 12.5	C 11.51	0.38	25	
Beckman Olympus Arsenazo & Beckman AU 480	4	9.3 - 11.3	C 10.3	0.24	7.5 - 9.5	C 8.51	0.22	11.1 - 13.1	C 12.14	0.28	6.9 - 8.9	C 7.91	0.2	10.6 - 12.6	C 11.64	0.26	20	
Ortho Vitros & Ortho Vitros 3600, 5600	5	9.7 - 11.7	C 10.65	0.12	7.6 - 9.6	C 8.64	0.14	11.3 - 13.3	C 12.32	0.23	7.0 - 9.0	C 8.02	0.08	10.9 - 12.9	C 11.93	0.14	17	
Ortho Vitros & Ortho Vitros not DT or ECi	6	9.6 - 11.6	C 10.6	0.21	7.6 - 9.6	C 8.58	0.17	11.4 - 13.4	C 12.37	0.25	7.0 - 9.0	C 7.99	0.17	10.9 - 12.9	C 11.9	0.23	23	
Roche Cobas & Roche Cobas Integra	7	9.7 - 11.7	C 10.69	0.27	7.7 - 9.7	C 8.7	0.16	11.6 - 13.6	C 12.58	0.33	7.1 - 9.1	C 8.05	0.19	11.1 - 13.1	C 12.11	0.24	13	
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	9.6 - 11.6	C 10.62	0.18	7.7 - 9.7	C 8.65	0.14	11.5 - 13.5	C 12.51	0.2	7.0 - 9.0	C 8.0	0.14	11.0 - 13.0	C 11.97	0.23	17	
Siemens OCP & Siemens Dimension EXL	9	9.3 - 11.3	C 10.32	0.21	7.4 - 9.4	C 8.39	0.2	11.3 - 13.3	C 12.28	0.24	6.8 - 8.8	C 7.81	0.19	10.7 - 12.7	C 11.7	0.25	57	
Siemens OCP & Siemens Dimension Xpand	10	9.3 - 11.3	C 10.28	0.27	7.4 - 9.4	C 8.41	0.26	11.3 - 13.3	C 12.29	0.28	6.8 - 8.8	C 7.78	0.28	10.7 - 12.7	C 11.71	0.28	17	
Initial Grouping by Reagent																		
Abbott	11	9.5 - 11.5	C 10.52	0.12	7.4 - 9.4	C 8.44	0.08	11.5 - 13.5	C 12.46	0.13	6.9 - 8.9	C 7.85	0.07	10.9 - 12.9	C 11.85	0.11	18	
Alfa Wassermann	12	9.6 - 11.6	C 10.55	0.39	7.9 - 9.9	C 8.88	0.27	11.6 - 13.6	C 12.56	0.26	7.4 - 9.4	C 8.39	0.27	11.1 - 13.1	C 12.06	0.33	20	
Beckman Coulter	13	9.3 - 11.3	C 10.31	0.24	7.5 - 9.5	C 8.45	0.15	11.2 - 13.2	C 12.16	0.24	6.8 - 8.8	C 7.84	0.19	10.6 - 12.6	C 11.62	0.22	18	
Beckman Olympus Arsenazo	14	9.3 - 11.3	C 10.27	0.25	7.4 - 9.4	C 8.43	0.22	11.1 - 13.1	C 12.1	0.3	6.8 - 8.8	C 7.81	0.23	10.6 - 12.6	C 11.57	0.34	46	
Carolina	15	9.4 - 11.4	C 10.44	0.39	7.6 - 9.6	C 8.61	0.37	11.3 - 13.3	C 12.3	0.53	7.0 - 9.0	C 7.95	0.4	10.8 - 12.8	C 11.84	0.49	14	
Ortho Vitros	16	9.6 - 11.6	C 10.61	0.18	7.6 - 9.6	C 8.61	0.16	11.4 - 13.4	C 12.35	0.24	7.0 - 9.0	C 8.0	0.15	10.9 - 12.9	C 11.92	0.21	46	
Roche Cobas	17	9.6 - 11.6	C 10.62	0.23	7.6 - 9.6	C 8.64	0.17	11.5 - 13.5	C 12.52	0.26	7.0 - 9.0	C 8.01	0.17	11.0 - 13.0	C 12.0	0.24	38	
Siemens OCP	18	9.3 - 11.3	C 10.33	0.25	7.4 - 9.4	C 8.41	0.22	11.3 - 13.3	C 12.29	0.28	6.8 - 8.8	C 7.82	0.21	10.7 - 12.7	C 11.72	0.27	84	
Initial Grouping by Sensitivity or Principle																		
Arsenazo-based	19	9.4 - 11.4	C 10.44	0.31	7.6 - 9.6	C 8.55	0.27	11.3 - 13.3	C 12.25	0.4	7.0 - 9.0	C 7.95	0.3	10.8 - 12.8	C 11.75	0.39	207	
OCP (o-cresolphth complex)	20	9.4 - 11.4	C 10.41	0.28	7.5 - 9.5	C 8.47	0.24	11.4 - 13.4	C 12.35	0.3	6.9 - 8.9	C 7.86	0.22	10.8 - 12.8	C 11.8	0.29	131	
Total Population																		
Whole Population	21	9.4 - 11.4	C 10.43	0.3	7.5 - 9.5	C 8.52	0.26	11.3 - 13.3	C 12.28	0.36	6.9 - 8.9	C 7.92	0.28	10.8 - 12.8	C 11.76	0.36	354	

Chloride

Initial Grouping by Reagent and Instrument																		
Abbott & Abbott Architect c, ci, i	1	101 - 111	P 106.0	0.7	93 - 103	P 98.4	1.0	108 - 119	P 113.4	0.9	91 - 101	P 96.1	0.2	106 - 117	P 111.6	0.9	18	
Alfa Wassermann & Alfa Wasser Axel/Alera	2	103 - 114	P 108.3	1.0	92 - 102	P 96.9	1.3	112 - 124	P 117.7	1.1	89 - 99	P 94.0	1.2	110 - 121	P 115.3	1.4	18	
Beckman Coulter & Beck Coult Unical DXC	3	100 - 111	P 105.4	1.0	93 - 103	P 98.1	0.9	107 - 119	P 113.1	1.3	91 - 101	P 96.2	1.0	106 - 117	P 111.3	1.0	15	
Beckman Olympus & Beck Olym AU 400/600/5400	4	101 - 111	P 106.0	2.1	93 - 102	P 97.5	1.3	108 - 119	P 113.7	1.9	91 - 100	P 95.3	1.2	106 - 117	P 111.7	2.0	30	
Beckman Olympus & Beckman AU 480	5	100 - 110	P 104.8	1.0	92 - 102	P 97.0	0.7	107 - 118	P 112.4	0.8	90 - 99	P 94.5	0.9	105 - 116	P 110.5	1.1	20	
Ortho Vitros & Ortho Vitros 3600, 5600	6	100 - 111	P 105.5	1.8	92 - 102	P 97.1	1.5	108 - 120	P 114.1	2.0	90 - 100	P 94.8	1.4	106 - 117	P 111.8	2.0	16	
Ortho Vitros & Ortho Vitros not DT or ECi	7	99 - 110	P 104.3	1.4	92 - 101	P 96.6	1.5	107 - 119	P 112.9	2.0	90 - 99	P 94.4	1.5	106 - 117	P 111.1	2.1	24	
Roche Cobas dil ISE & Roche Cobas Integra	8	103 - 113	P 107.9	1.3	94 - 103	P 98.5	1.9	112 - 124	P 117.8	1.9	91 - 101	P 96.1	2.1	109 - 121	P 115.1	2.3	10	
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	98 - 108	P 103.3	1.3	89 - 98	P 93.5	1.3	108 - 120	P 114.2	1.3	86 - 95	P 90.3	1.5	105 - 116	P 110.9	1.4	14	

Siemens QuickLYTE IMT & Siemens Dimension EXL	10	102 - 113	P 107.3	1.2	91 - 101	P 96.3	0.8	113 - 125	P 118.6	1.4	88 - 97	P 92.8	0.8	110 - 121	P 115.4	1.2	58
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	102 - 113	P 107.4	0.8	91 - 101	P 96.2	0.7	112 - 124	P 118.2	1.4	88 - 97	P 92.6	0.8	109 - 121	P 115.1	1.2	17
Initial Grouping by Reagent																	
Abbott	12	101 - 111	P 106.0	0.7	93 - 103	P 98.4	1.0	108 - 119	P 113.4	0.9	91 - 101	P 96.1	0.2	106 - 117	P 111.6	0.9	18
Alfa Wassermann	13	103 - 114	P 108.3	1.0	92 - 102	P 96.9	1.2	112 - 124	P 117.7	1.1	89 - 99	P 94.0	1.2	110 - 121	P 115.3	1.4	19
Beckman Coulter	14	100 - 111	P 105.6	1.2	93 - 103	P 98.0	1.1	108 - 119	P 113.5	1.4	91 - 100	P 95.7	1.0	106 - 117	P 111.6	1.1	27
Beckman Olympus	15	100 - 111	P 105.5	1.8	92 - 102	P 97.3	1.1	108 - 119	P 113.2	1.7	90 - 100	P 95.0	1.1	106 - 117	P 111.2	1.8	53
Ortho Vitros	16	100 - 110	P 104.8	1.7	92 - 102	P 96.8	1.5	108 - 119	P 113.6	2.1	90 - 99	P 94.7	1.5	106 - 117	P 111.5	2.1	46
Roche Cobas dil ISE	17	99 - 110	P 104.7	2.5	90 - 100	P 95.2	2.8	110 - 121	P 115.4	2.1	87 - 97	P 92.0	3.2	107 - 118	P 112.4	2.5	32
Siemens QuickLYTE IMT	18	102 - 113	P 107.3	1.2	91 - 101	P 96.2	1.0	113 - 124	P 118.5	1.5	88 - 97	P 92.7	1.0	110 - 121	P 115.3	1.4	83
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	19	101 - 112	P 106.3	2.5	92 - 102	P 96.8	1.8	110 - 121	P 115.6	3.3	90 - 99	P 94.3	2.0	108 - 119	P 113.4	3.2	95
Colorimetric	20	101 - 111	P 106.1	4.4	93 - 102	P 97.4	4.5	109 - 121	P 114.9	5.0	90 - 100	P 94.9	4.7	108 - 119	P 113.4	5.1	17
Diluted ISE	21	101 - 112	P 106.3	2.1	92 - 102	P 96.8	1.9	110 - 121	P 115.7	3.2	89 - 99	P 94.0	2.3	107 - 119	P 113.1	2.9	236
Total Population																	
Whole Population	22	101 - 112	P 106.3	2.4	92 - 102	P 96.8	2.1	110 - 121	P 115.6	3.3	89 - 99	P 94.1	2.4	108 - 119	P 113.2	3.1	349

Cholesterol, Total

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	136 - 166	P 151.1	1.4	86 - 105	P 95.7	1.4	185 - 226	P 205.4	2.2	70 - 86	P 78.1	1.4	171 - 209	P 189.7	1.9	18
Alfa Wassermann & Alfa Wasser Axel/Alera	2	139 - 170	P 154.4	5.2	89 - 109	P 98.7	2.2	186 - 228	P 206.9	6.6	73 - 89	P 80.9	2.4	172 - 211	P 191.4	6.5	14
Beckman Coulter & Beck Coulter UniceL DXC	3	137 - 167	P 152.0	4.1	85 - 104	P 94.9	2.1	185 - 226	P 205.7	6.5	68 - 83	P 75.9	1.6	173 - 212	P 192.6	6.7	14
Beckman Olympus & Beck Olym AU 400/600/5400	4	131 - 160	P 145.6	3.8	82 - 101	P 91.5	2.3	179 - 218	P 198.4	4.2	67 - 82	P 74.3	1.8	166 - 203	P 184.1	4.1	23
Beckman Olympus & Beckman AU 480	5	132 - 161	P 146.6	2.4	83 - 101	P 92.2	2.2	180 - 220	P 200.1	3.3	67 - 82	P 74.5	1.8	167 - 204	P 185.6	3.8	17
Ortho Vitros & Ortho Vitros 3600, 5600	6	130 - 159	P 144.6	3.0	78 - 96	P 86.9	3.1	180 - 220	P 199.7	5.1	59 - 72	P 65.3	4.0	167 - 204	P 185.4	4.5	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	128 - 156	P 141.7	4.7	78 - 95	P 86.8	4.1	176 - 215	P 195.6	6.9	60 - 73	P 66.3	5.0	163 - 199	P 181.3	7.5	22
Roche Cobas & Roche Cobas Integra	8	136 - 167	P 151.5	3.3	87 - 106	P 96.4	2.2	185 - 226	P 205.1	5.3	70 - 86	P 77.9	1.7	170 - 208	P 189.3	3.9	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	135 - 165	P 150.2	3.9	87 - 106	P 96.4	2.1	184 - 225	P 204.1	3.8	70 - 86	P 77.9	2.4	171 - 209	P 189.6	3.0	17
Siemens Dimension & Siemens Dimension EXL	10	134 - 163	P 148.4	3.5	84 - 103	P 93.7	3.2	182 - 223	P 202.6	3.8	68 - 83	P 75.9	3.2	168 - 205	P 186.5	4.2	56
Siemens Dimension & Siemens Dimension Xpand	11	133 - 163	P 148.1	3.9	85 - 103	P 93.9	3.7	182 - 222	P 201.7	5.2	69 - 84	P 76.2	3.4	167 - 204	P 185.9	5.0	18
Initial Grouping by Reagent																	
Abbott	12	136 - 166	P 151.1	1.4	86 - 105	P 95.7	1.4	185 - 226	P 205.4	2.2	70 - 86	P 78.1	1.4	171 - 209	P 189.7	1.9	18
Alfa Wassermann	13	139 - 170	P 154.4	5.2	89 - 109	P 98.7	2.2	186 - 228	P 206.9	6.6	73 - 89	P 80.9	2.4	172 - 211	P 191.4	6.5	14
Beckman Coulter	14	135 - 165	P 149.8	5.0	84 - 103	P 93.8	2.8	184 - 224	P 203.9	6.8	68 - 83	P 75.5	2.0	171 - 209	P 189.6	7.5	22
Beckman Olympus	15	131 - 160	P 145.9	3.3	83 - 101	P 91.8	2.3	180 - 219	P 199.5	4.4	67 - 82	P 74.4	1.9	166 - 203	P 184.5	4.4	42
Carolina	16	142 - 174	P 158.0	6.2	90 - 110	P 100.0	5.1	192 - 234	P 213.0	7.7	73 - 89	P 81.1	3.6	179 - 219	P 199.1	6.9	15
Ortho Vitros	17	129 - 158	P 143.3	4.6	78 - 95	P 86.8	4.0	178 - 218	P 198.0	6.5	59 - 72	P 65.6	4.6	165 - 202	P 183.4	6.4	44
Pointe Scientific	18	138 - 168	P 152.9	4.7	88 - 108	P 98.3	3.7	187 - 229	P 208.2	6.6	72 - 88	P 79.9	2.4	174 - 213	P 193.7	5.3	16
Roche Cobas	19	136 - 166	P 150.7	4.0	87 - 106	P 96.3	2.6	184 - 225	P 204.2	4.9	70 - 86	P 78.1	2.5	170 - 208	P 189.1	4.0	38
Siemens Dimension	20	134 - 164	P 148.7	4.2	85 - 103	P 93.9	3.3	182 - 223	P 202.7	4.4	68 - 84	P 76.1	3.3	168 - 205	P 186.7	4.6	83
Sterling Diagnostic	21	136 - 166	P 150.9	4.2	86 - 106	P 96.0	2.7	183 - 223	P 202.9	7.2	70 - 86	P 78.0	2.8	170 - 208	P 188.7	4.8	15
Initial Grouping by Sensitivity or Principle																	
All enzymatic cholesterol	22	134 - 164	P 149.3	5.8	85 - 103	P 93.9	4.8	183 - 223	P 203.1	6.8	68 - 83	P 75.6	5.3	169 - 207	P 187.9	6.6	347
Total Population																	
Whole Population	23	134 - 164	P 149.3	5.8	85 - 103	P 93.9	4.8	183 - 223	P 203.1	6.8	68 - 83	P 75.6	5.3	169 - 207	P 187.9	6.6	347

Creatinine

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	2.5 - 3.3	P 2.91	0.05	1.1 - 1.7	C 1.36	0.06	3.8 - 5.1	P 4.44	0.07	0.5 - 1.1	C 0.83	0.04	3.4 - 4.6	P 3.99	0.06	18
Alfa Wassermann & Alfa Wasser Axel/Alera	2	2.5 - 3.3	P 2.89	0.21	1.2 - 1.8	C 1.53	0.08	3.5 - 4.7	P 4.06	0.2	0.8 - 1.4	C 1.13	0.04	3.2 - 4.3	P 3.75	0.17	20
Beckman Coulter & Beck Coulter UniceL DXC	3	2.3 - 3.2	P 2.74	0.1	1.1 - 1.7	C 1.4	0.06	3.5 - 4.7	P 4.09	0.14	0.6 - 1.2	C 0.94	0.05	3.2 - 4.3	P 3.72	0.14	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	2.4 - 3.2	P 2.79	0.09	1.1 - 1.7	C 1.42	0.06	3.4 - 4.6	P 4.04	0.16	0.6 - 1.3	C 0.95	0.06	3.1 - 4.3	P 3.7	0.15	27
Beckman Olympus & Beckman AU 480	5	2.4 - 3.2	P 2.8	0.06	1.1 - 1.7	C 1.42	0.05	3.5 - 4.7	P 4.1	0.1	0.6 - 1.3	C 0.95	0.06	3.2 - 4.3	P 3.71	0.09	22
Ortho Vitros 1-slide enz & Ortho Vitros 3600, 5600	6	2.5 - 3.4	P 2.95	0.08	1.1 - 1.7	C 1.42	0.04	3.7 - 5.0	P 4.37	0.11	0.7 - 1.3	C 0.96	0.05	3.4 - 4.6	P 3.97	0.11	11
Ortho Vitros 1-slide enz & Ortho Vitros not DT or ECi	7	2.4 - 3.3	P 2.83	0.08	1.1 - 1.7	C 1.38	0.04	3.6 - 4.9	P 4.27	0.11	0.6 - 1.2	C 0.94	0.05	3.3 - 4.5	P 3.9	0.1	12
Roche Cobas & Roche Cobas Integra	8	2.3 - 3.1	P 2.66	0.21	1.1 - 1.7	C 1.42	0.06	3.3 - 4.4	P 3.85	0.19	0.6 - 1.2	C 0.93	0.09	3.0 - 4.1	P 3.57	0.16	13
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	2.3 - 3.1	P 2.71	0.12	1.1 - 1.7	C 1.36	0.08	3.3 - 4.5	P 3.92	0.17	0.6 - 1.2	C 0.91	0.08	3.0 - 4.1	P 3.56	0.17	16
Siemens Dimension & Siemens Dimension EXL	10	2.4 - 3.3	P 2.85	0.09	1.2 - 1.8	C 1.47	0.07	3.6 - 4.9	P 4.26	0.12	0.7 - 1.3	C 1.02	0.05	3.3 - 4.4	P 3.86	0.1	43
Siemens Dimension & Siemens Dimension Xpand	11	2.4 - 3.3	P 2.85	0.05	1.2 - 1.8	C 1.48	0.04	3.6 - 4.9	P 4.24	0.09	0.7 - 1.3	C 1.0	0.04	3.3 - 4.4	P 3.85	0.08	11
Initial Grouping by Reagent																	
Abbott Architect	12	2.5 - 3.3	P 2.91	0.05	1.1 - 1.7	C 1.36	0.06	3.8 - 5.1	P 4.44	0.07	0.5 - 1.1	C 0.83	0.04	3.4 - 4.6	P 3.99	0.06	18

Alfa Wassermann	13	2.5 - 3.3	P 2.89	0.21	1.2 - 1.8	C 1.53	0.08	3.4 - 4.7	P 4.05	0.19	0.8 - 1.4	C 1.13	0.04	3.2 - 4.3	P 3.75	0.17	21
Beckman Coulter	14	2.4 - 3.2	P 2.77	0.08	1.1 - 1.7	C 1.41	0.06	3.5 - 4.7	P 4.09	0.11	0.6 - 1.3	C 0.95	0.05	3.2 - 4.3	P 3.73	0.11	19
Beckman Olympus	15	2.4 - 3.2	P 2.79	0.08	1.1 - 1.7	C 1.42	0.05	3.5 - 4.7	P 4.07	0.14	0.6 - 1.3	C 0.95	0.06	3.1 - 4.3	P 3.7	0.12	51
Carolina	16	2.4 - 3.2	P 2.79	0.17	1.1 - 1.7	C 1.44	0.12	3.5 - 4.7	P 4.06	0.24	0.8 - 1.4	C 1.05	0.1	3.2 - 4.3	P 3.74	0.24	17
Ortho Vitros 1-slide enz	17	2.5 - 3.3	P 2.89	0.09	1.1 - 1.7	C 1.4	0.04	3.7 - 5.0	P 4.31	0.12	0.6 - 1.3	C 0.95	0.05	3.3 - 4.5	P 3.93	0.11	27
Ortho Vitros IDMS traceable	18	2.4 - 3.3	P 2.87	0.07	1.1 - 1.7	C 1.41	0.06	3.7 - 5.0	P 4.33	0.1	0.6 - 1.2	C 0.94	0.05	3.3 - 4.5	P 3.91	0.1	19
Pointe Scientific	19	2.4 - 3.3	P 2.83	0.13	1.2 - 1.8	C 1.5	0.09	3.5 - 4.7	P 4.11	0.22	0.8 - 1.4	C 1.08	0.11	3.2 - 4.3	P 3.77	0.25	10
Roche Cobas	20	2.3 - 3.1	P 2.71	0.16	1.1 - 1.7	C 1.39	0.08	3.3 - 4.5	P 3.89	0.17	0.6 - 1.2	C 0.92	0.08	3.0 - 4.1	P 3.57	0.16	36
Siemens Dimension	21	2.4 - 3.3	P 2.85	0.08	1.2 - 1.8	C 1.47	0.06	3.6 - 4.9	P 4.25	0.11	0.7 - 1.3	C 1.02	0.05	3.3 - 4.4	P 3.86	0.09	59
Siemens EZCR/IDMS Traceable	22	2.4 - 3.3	P 2.84	0.05	1.2 - 1.8	C 1.48	0.06	3.6 - 4.9	P 4.21	0.1	0.7 - 1.3	C 1.01	0.03	3.2 - 4.4	P 3.81	0.07	11
Siemens nonenz rate	23	2.5 - 3.3	P 2.89	0.05	1.2 - 1.8	C 1.49	0.03	3.6 - 4.8	P 4.28	0.06	0.7 - 1.3	C 1.0	0.0	3.3 - 4.4	P 3.86	0.08	10
Synermed	24	2.2 - 3.0	P 2.61	0.18	1.3 - 1.9	C 1.57	0.08	3.1 - 4.2	P 3.62	0.23	0.9 - 1.5	C 1.17	0.08	2.8 - 3.8	P 3.33	0.2	10
Initial Grouping bySensitivityor Principle																	
Enzymatic methods	25	2.4 - 3.3	P 2.86	0.09	1.2 - 1.8	C 1.45	0.06	3.6 - 4.9	P 4.27	0.12	0.7 - 1.3	C 1.0	0.07	3.3 - 4.5	P 3.88	0.11	93
Nonenzymatic rate	26	2.4 - 3.2	P 2.79	0.15	1.1 - 1.7	C 1.43	0.09	3.4 - 4.7	P 4.05	0.24	0.7 - 1.3	C 0.98	0.11	3.1 - 4.3	P 3.7	0.2	216
IDMS traceable	27	2.4 - 3.3	P 2.84	0.09	1.1 - 1.7	C 1.44	0.07	3.6 - 4.9	P 4.22	0.19	0.7 - 1.3	C 0.98	0.06	3.3 - 4.4	P 3.83	0.15	47
Total Population																	
Whole Population	28	2.4 - 3.2	P 2.81	0.13	1.1 - 1.7	C 1.44	0.08	3.5 - 4.7	P 4.13	0.23	0.7 - 1.3	C 0.98	0.1	3.2 - 4.3	P 3.76	0.19	368

Glucose

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	135 - 164	P 149.5	1.4	82 - 100	P 90.9	0.6	189 - 231	P 209.7	1.8	64 - 78	P 71.0	0.6	173 - 211	P 192.2	1.8	19
Alfa Wassermann & Alfa Wasser Excel/Alera	2	142 - 173	P 157.6	5.3	87 - 106	P 96.3	2.5	193 - 236	P 214.4	7.6	69 - 85	P 77.0	2.4	180 - 219	P 199.5	5.9	19
Beckman Olympus & Beck Olym AU 400/600/5400	3	139 - 170	P 154.4	4.7	84 - 102	P 92.8	2.2	191 - 234	P 212.3	4.8	66 - 80	P 73.1	2.0	177 - 216	P 196.2	4.6	26
Beckman Olympus & Beckman AU 480	4	140 - 171	P 155.3	4.6	85 - 104	P 94.1	2.6	193 - 236	P 214.8	4.7	67 - 82	P 74.3	2.0	178 - 218	P 198.2	5.3	23
Ortho Vitros & Ortho Vitros 3600, 5600	5	129 - 158	P 143.8	3.5	77 - 94	P 85.9	2.7	183 - 223	P 203.1	4.5	60 - 74	P 66.9	1.9	168 - 205	P 186.4	3.6	17
Ortho Vitros & Ortho Vitros not DT or ECI	6	131 - 160	P 145.5	4.2	78 - 96	P 86.9	2.4	185 - 226	P 205.8	5.4	61 - 75	P 68.0	1.7	169 - 207	P 188.3	5.1	24
Roche Cobas & Roche Cobas Integra	7	139 - 170	P 154.8	3.9	85 - 104	P 94.3	2.3	192 - 235	P 213.6	5.0	67 - 82	P 74.5	1.7	177 - 216	P 196.7	5.1	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	137 - 168	P 152.5	4.2	83 - 101	P 92.1	2.4	190 - 233	P 211.6	5.0	65 - 80	P 72.5	1.9	175 - 214	P 194.8	5.3	17
Siemens HK & Siemens Dimension EXL	9	140 - 171	P 155.1	2.7	85 - 104	P 94.6	1.7	193 - 236	P 214.8	3.3	67 - 82	P 74.9	1.7	178 - 217	P 197.3	2.5	27
Siemens HK, GLUC & Siemens Dimension EXL	10	139 - 170	P 154.9	2.8	85 - 104	P 94.3	1.6	192 - 235	P 213.5	3.6	67 - 82	P 74.6	1.7	177 - 216	P 196.7	3.3	31

Initial Grouping byReagent

Abbott	11	135 - 164	P 149.5	1.4	82 - 100	P 90.9	0.6	189 - 231	P 209.7	1.8	64 - 78	P 71.0	0.6	173 - 211	P 192.2	1.8	19
Alfa Wassermann	12	142 - 173	P 157.7	5.2	87 - 106	P 96.4	2.5	193 - 236	P 214.8	7.6	69 - 85	P 77.1	2.3	180 - 220	P 199.6	5.8	20
Beckman HK	13	137 - 168	P 152.4	4.5	83 - 101	P 91.9	2.6	191 - 234	P 212.6	5.6	65 - 80	P 72.7	2.5	175 - 214	P 194.7	5.9	14
Beckman Olympus	14	139 - 170	P 154.9	4.6	84 - 103	P 93.5	2.5	192 - 235	P 213.5	5.0	66 - 81	P 73.7	2.1	177 - 217	P 197.1	5.0	51
Carolina HK	15	138 - 168	P 152.8	5.3	84 - 103	P 93.3	2.8	191 - 234	P 212.3	9.0	67 - 82	P 74.3	1.9	176 - 215	P 195.0	6.6	12
Ortho Vitros	16	130 - 159	P 144.8	4.1	78 - 95	P 86.6	2.6	184 - 225	P 204.7	5.4	61 - 74	P 67.6	2.0	169 - 206	P 187.6	4.9	47
Roche Cobas	17	138 - 169	P 153.3	3.9	84 - 102	P 92.9	2.4	191 - 234	P 212.5	4.8	66 - 81	P 73.3	1.9	176 - 215	P 195.5	5.1	38
Siemens HK	18	139 - 170	P 154.6	4.2	85 - 104	P 94.1	2.7	193 - 236	P 214.2	3.7	67 - 82	P 74.5	2.1	177 - 216	P 196.3	4.8	44
Siemens HK, GLUC	19	140 - 171	P 155.1	2.6	85 - 104	P 94.5	1.6	193 - 236	P 214.1	3.7	67 - 82	P 74.8	1.6	178 - 217	P 197.3	3.6	42
Sterling Diagnostic	20	143 - 175	P 158.7	5.5	86 - 105	P 95.4	2.0	192 - 235	P 213.3	4.1	69 - 84	P 76.3	2.3	179 - 218	P 198.6	4.7	12

Initial Grouping bySensitivityor Principle

HexoKinase (HK)	21	138 - 169	P 153.6	4.6	84 - 103	P 93.4	2.7	191 - 234	P 212.6	5.5	66 - 81	P 73.8	2.4	176 - 215	P 195.6	5.3	261
HexoKinase Alfa Wasserman and related	22	142 - 173	P 157.7	5.2	87 - 106	P 96.4	2.5	193 - 236	P 214.8	7.6	69 - 85	P 77.1	2.3	180 - 220	P 199.6	5.8	20
Glucose Oxidase (GO)	23	135 - 165	P 149.9	7.9	81 - 99	P 90.0	5.2	188 - 230	P 208.8	8.2	64 - 78	P 70.7	4.5	173 - 212	P 192.4	8.3	78

Total Population

Whole Population	24	138 - 168	P 153.1	5.9	84 - 102	P 92.8	3.9	191 - 233	P 212.0	6.7	66 - 81	P 73.3	3.4	176 - 215	P 195.2	6.5	370
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Phosphorus

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	2.9 - 3.9	P 3.4	0.17	1.8 - 2.6	C 2.22	0.06	3.8 - 5.1	P 4.46	0.13	1.5 - 2.3	C 1.87	0.05	3.5 - 4.8	P 4.15	0.17	13
Beckman Olympus no blank & Beck Olym AU 400/600/5400	2	2.9 - 3.9	P 3.43	0.09	1.9 - 2.7	C 2.3	0.09	4.0 - 5.3	P 4.65	0.27	1.5 - 2.3	C 1.93	0.08	3.7 - 5.0	P 4.36	0.3	13
Beckman Olympus no blank & Beckman AU 480	3	2.9 - 4.0	P 3.46	0.13	1.9 - 2.7	C 2.32	0.1	3.9 - 5.3	P 4.61	0.16	1.5 - 2.3	C 1.92	0.08	3.6 - 4.9	P 4.26	0.14	12
Ortho Vitros & Ortho Vitros 3600, 5600	4	3.0 - 4.0	P 3.47	0.1	2.1 - 2.9	C 2.45	0.08	3.9 - 5.3	P 4.59	0.2	1.7 - 2.5	C 2.11	0.09	3.6 - 4.9	P 4.25	0.18	15
Ortho Vitros & Ortho Vitros not DT or ECI	5	3.0 - 4.0	P 3.49	0.14	2.1 - 2.9	C 2.48	0.15	3.9 - 5.3	P 4.61	0.17	1.7 - 2.5	C 2.13	0.12	3.6 - 4.9	P 4.29	0.17	16
Roche Cobas & Roche e/c, 1XX, X000, Elec series	6	2.9 - 4.0	P 3.47	0.07	1.9 - 2.7	C 2.33	0.06	3.9 - 5.3	P 4.58	0.11	1.5 - 2.3	C 1.93	0.05	3.6 - 4.9	P 4.27	0.07	12
Siemens Dimension & Siemens Dimension EXL	7	3.1 - 4.2	P 3.64	0.1	2.1 - 2.9	C 2.48	0.11	4.1 - 5.5	P 4.77	0.11	1.7 - 2.5	C 2.09	0.09	3.8 - 5.1	P 4.43	0.1	54
Siemens Dimension & Siemens Dimension Xpand	8	3.1 - 4.2	P 3.68	0.1	2.1 - 2.9	C 2.51	0.09	4.1 - 5.5	P 4.79	0.1	1.7 - 2.5	C 2.11	0.09	3.7 - 5.1	P 4.41	0.11	10

Initial Grouping byReagent

Abbott Architect	9	2.9 - 3.9	P 3.4	0.17	1.8 - 2.6	C 2.22	0.06	3.8 - 5.1	P 4.46	0.13	1.5 - 2.3	C 1.87	0.05	3.5 - 4.8	P 4.15	0.17	13
Beckman Olympus blanked	10	2.9 - 3.9	P 3.41	0.13	1.9 - 2.7	C 2.28	0.09	3.9 - 5.2	P 4.54	0.15	1.5 - 2.3	C 1.91	0.08	3.6 - 4.8	P 4.19	0.13	17
Beckman Olympus no blank	11	2.9 - 4.0	P 3.45	0.11	1.9 - 2.7	C 2.31	0.1	3.9 - 5.3	P 4.63	0.22	1.5 - 2.3	C 1.93	0.08	3.7 - 5.0	P 4.31	0.23	26
Ortho Vitros	12	3.0 - 4.0	P 3.48	0.12	2.1 - 2.9	C 2.47	0.11	3.9 - 5.3	P 4.61	0.17	1.7 - 2.5	C 2.11	0.1	3.6 - 4.9	P 4.28	0.17	35
Roche Cobas	13	3.0 - 4.0	P 3.49	0.08	1.9 - 2.7	C 2.33	0.06	3.9 - 5.3	P 4.59	0.09	1.5 - 2.3	C 1.93	0.05	3.6 - 4.9	P 4.25	0.09	22
Siemens Dimension	14	3.1 - 4.2	P 3.64	0.11	2.1 - 2.9	C 2.48	0.11	4.1 - 5.5	P 4.77	0.11	1.7 - 2.5	C 2.09	0.1	3.8 - 5.1	P 4.42	0.12	73
Initial Grouping bySensitivityor Principle																	
UV-uncorrected	15	3.1 - 4.2	P 3.66	0.26	2.1 - 2.9	C 2.49	0.2	4.1 - 5.6	P 4.87	0.32	1.7 - 2.5	C 2.07	0.2	3.8 - 5.2	P 4.49	0.29	15
UV-bichromatic-sam blanked	16	3.0 - 4.1	P 3.57	0.18	2.0 - 2.8	C 2.41	0.14	4.0 - 5.4	P 4.69	0.18	1.6 - 2.4	C 2.02	0.13	3.7 - 5.0	P 4.35	0.2	135
UV-bichromatic-no sam blks	17	2.9 - 4.0	P 3.46	0.16	1.9 - 2.7	C 2.32	0.13	3.9 - 5.3	P 4.59	0.22	1.5 - 2.3	C 1.93	0.14	3.6 - 4.9	P 4.25	0.24	36
UV-rate	18	3.0 - 4.1	P 3.57	0.24	2.0 - 2.8	C 2.4	0.15	4.0 - 5.4	P 4.73	0.24	1.6 - 2.4	C 2.0	0.13	3.8 - 5.1	P 4.42	0.22	15
Visible	19	3.0 - 4.0	P 3.48	0.12	2.1 - 2.9	C 2.45	0.13	3.9 - 5.3	P 4.61	0.18	1.7 - 2.5	C 2.09	0.15	3.6 - 4.9	P 4.28	0.17	37
Total Population																	
Whole Population	20	3.0 - 4.1	P 3.55	0.19	2.0 - 2.8	C 2.41	0.15	4.0 - 5.4	P 4.68	0.22	1.6 - 2.4	C 2.02	0.15	3.7 - 5.0	P 4.34	0.22	248

Potassium

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	4.3 - 5.3	C 4.79	0.05	2.9 - 3.9	C 3.44	0.05	5.7 - 6.7	C 6.17	0.05	2.5 - 3.5	C 3.0	0.0	5.3 - 6.3	C 5.77	0.04	18
Alfa Wassermann & Alfa Wasser Excel/Alera	2	4.4 - 5.4	C 4.89	0.08	2.9 - 3.9	C 3.43	0.08	5.8 - 6.8	C 6.32	0.1	2.5 - 3.5	C 2.99	0.08	5.4 - 6.4	C 5.92	0.11	18
Beckman Coulter & Beck Coult Unicel DXC	3	4.2 - 5.2	C 4.7	0.09	2.8 - 3.8	C 3.31	0.08	5.6 - 6.6	C 6.07	0.09	2.4 - 3.4	C 2.89	0.05	5.2 - 6.2	C 5.7	0.05	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	4.2 - 5.2	C 4.7	0.05	2.9 - 3.9	C 3.39	0.05	5.5 - 6.5	C 6.04	0.07	2.5 - 3.5	C 2.99	0.07	5.1 - 6.1	C 5.64	0.08	30
Beckman Olympus & Beckman AU 480	5	4.2 - 5.2	C 4.7	0.04	2.9 - 3.9	C 3.4	0.04	5.5 - 6.5	C 6.01	0.06	2.5 - 3.5	C 3.0	0.05	5.1 - 6.1	C 5.64	0.05	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	4.4 - 5.4	C 4.87	0.09	3.0 - 4.0	C 3.48	0.07	5.8 - 6.8	C 6.28	0.1	2.5 - 3.5	C 3.04	0.06	5.4 - 6.4	C 5.89	0.12	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	4.4 - 5.4	C 4.85	0.09	3.0 - 4.0	C 3.47	0.05	5.7 - 6.7	C 6.24	0.09	2.5 - 3.5	C 3.04	0.05	5.4 - 6.4	C 5.87	0.09	24
Roche Cobas dil ISE & Roche Cobas Integra	8	4.2 - 5.2	C 4.74	0.07	2.9 - 3.9	C 3.41	0.05	5.6 - 6.6	C 6.09	0.03	2.5 - 3.5	C 2.98	0.04	5.2 - 6.2	C 5.7	0.04	10
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	4.4 - 5.4	C 4.87	0.09	3.0 - 4.0	C 3.49	0.07	5.7 - 6.7	C 6.23	0.09	2.6 - 3.6	C 3.07	0.07	5.3 - 6.3	C 5.81	0.08	14
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	4.3 - 5.3	C 4.78	0.05	2.9 - 3.9	C 3.39	0.03	5.6 - 6.6	C 6.13	0.06	2.5 - 3.5	C 2.95	0.05	5.2 - 6.2	C 5.73	0.06	58
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	4.3 - 5.3	C 4.77	0.06	2.9 - 3.9	C 3.41	0.07	5.6 - 6.6	C 6.14	0.12	2.4 - 3.4	C 2.93	0.06	5.2 - 6.2	C 5.71	0.07	17

Initial Grouping byReagent

Abbott Architect	12	4.3 - 5.3	C 4.79	0.05	2.9 - 3.9	C 3.44	0.05	5.7 - 6.7	C 6.17	0.05	2.5 - 3.5	C 3.0	0.0	5.3 - 6.3	C 5.77	0.04	18
Alfa Wassermann	13	4.4 - 5.4	C 4.89	0.08	2.9 - 3.9	C 3.43	0.08	5.8 - 6.8	C 6.33	0.1	2.5 - 3.5	C 2.99	0.08	5.4 - 6.4	C 5.92	0.1	19
Beckman Coulter	14	4.2 - 5.2	C 4.7	0.08	2.9 - 3.9	C 3.36	0.08	5.6 - 6.6	C 6.06	0.08	2.4 - 3.4	C 2.93	0.07	5.2 - 6.2	C 5.69	0.05	27
Beckman Olympus	15	4.2 - 5.2	C 4.7	0.05	2.9 - 3.9	C 3.39	0.05	5.5 - 6.5	C 6.03	0.07	2.5 - 3.5	C 2.99	0.06	5.1 - 6.1	C 5.64	0.07	53
Ortho Vitros	16	4.4 - 5.4	C 4.87	0.09	3.0 - 4.0	C 3.48	0.06	5.8 - 6.8	C 6.26	0.1	2.5 - 3.5	C 3.04	0.05	5.4 - 6.4	C 5.89	0.1	46
Roche Cobas dil ISE	17	4.3 - 5.3	C 4.82	0.11	3.0 - 4.0	C 3.45	0.09	5.7 - 6.7	C 6.17	0.11	2.5 - 3.5	C 3.03	0.11	5.3 - 6.3	C 5.77	0.1	32
Siemens QuickLYTE IMT	18	4.3 - 5.3	C 4.77	0.06	2.9 - 3.9	C 3.39	0.04	5.6 - 6.6	C 6.12	0.08	2.5 - 3.5	C 2.95	0.05	5.2 - 6.2	C 5.72	0.07	83

Initial Grouping bySensitivityor Principle

Undiluted ISE results	19	4.3 - 5.3	C 4.79	0.12	2.9 - 3.9	C 3.41	0.08	5.7 - 6.7	C 6.15	0.16	2.5 - 3.5	C 2.98	0.08	5.3 - 6.3	C 5.76	0.15	186
Diluted ISE results	20	4.3 - 5.3	C 4.75	0.1	2.9 - 3.9	C 3.41	0.09	5.6 - 6.6	C 6.08	0.12	2.5 - 3.5	C 2.99	0.09	5.2 - 6.2	C 5.7	0.13	154

Total Population

Whole Population	21	4.3 - 5.3	C 4.77	0.12	2.9 - 3.9	C 3.4	0.09	5.6 - 6.6	C 6.12	0.15	2.5 - 3.5	C 2.98	0.09	5.2 - 6.2	C 5.73	0.15	349
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Sodium

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	143 - 151	C 146.6	1.4	129 - 137	C 132.5	1.3	156 - 164	C 159.6	0.9	124 - 132	C 128.2	1.4	152 - 160	C 156.1	1.2	18
Alfa Wassermann & Alfa Wasser Excel/Alera	2	144 - 152	C 148.3	0.9	127 - 135	C 130.9	1.0	160 - 168	C 164.1	1.0	123 - 131	C 126.5	1.1	156 - 164	C 159.5	1.0	16
Beckman Coulter & Beck Coult Unicel DXC	3	141 - 149	C 144.7	1.7	128 - 136	C 131.5	1.2	154 - 162	C 158.1	2.2	124 - 132	C 127.8	1.2	151 - 159	C 154.8	1.9	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	140 - 148	C 144.2	1.4	128 - 136	C 131.5	1.6	154 - 162	C 157.6	1.3	123 - 131	C 127.4	1.5	150 - 158	C 153.9	1.4	31
Beckman Olympus & Beckman AU 480	5	141 - 149	C 144.9	1.4	128 - 136	C 131.9	1.2	154 - 162	C 158.0	1.1	124 - 132	C 127.7	1.2	150 - 158	C 154.3	1.2	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	150 - 158	C 154.3	2.0	134 - 142	C 137.5	1.8	167 - 175	C 171.4	2.3	128 - 136	C 132.4	2.0	163 - 171	C 166.7	2.5	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	149 - 157	C 152.7	2.1	132 - 140	C 136.4	2.5	166 - 174	C 169.9	3.1	128 - 136	C 132.0	2.1	161 - 169	C 165.1	2.6	24
Roche Cobas dil ISE & Roche Cobas Integra	8	141 - 149	C 144.9	2.1	128 - 136	C 131.5	0.9	155 - 163	C 158.5	1.0	124 - 132	C 127.6	1.0	151 - 159	C 154.9	1.0	10
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	143 - 151	C 147.1	1.9	129 - 137	C 133.4	1.6	158 - 166	C 161.6	1.8	125 - 133	C 129.3	1.6	153 - 161	C 157.2	1.5	14
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	144 - 152	C 147.5	1.7	131 - 139	C 134.6	1.2	156 - 164	C 160.2	1.6	127 - 135	C 130.8	1.2	153 - 161	C 156.7	1.8	57
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	144 - 152	C 147.5	1.7	131 - 139	C 134.5	1.5	156 - 164	C 159.9	2.5	126 - 134	C 130.2	1.4	152 - 160	C 156.4	2.1	17

Initial Grouping byReagent

Abbott Architect	12	143 - 151	C 146.6	1.4	129 - 137	C 132.5	1.3	156 - 164	C 159.6	0.9	124 - 132	C 128.2	1.4	152 - 160	C 156.1	1.2	18
Alfa Wassermann	13	144 - 152	C 148.4	1.0	127 - 135	C 131.0	1.0	160 - 168	C 164.2	1.0	123 - 131	C 126.5	1.0	156 - 164	C 159.6	1.0	17

Beckman Coulter	14	141 - 149	C 144.9	1.6	128 - 136	C 131.7	1.1	154 - 162	C 158.4	1.9	124 - 132	C 127.7	1.2	151 - 159	C 155.2	1.7	27
Beckman Olympus	15	141 - 149	C 144.5	1.4	128 - 136	C 131.6	1.4	154 - 162	C 157.8	1.2	124 - 132	C 127.6	1.4	150 - 158	C 154.1	1.3	54
Ortho Vitros	16	150 - 158	C 153.5	2.2	133 - 141	C 137.0	2.2	167 - 175	C 170.7	2.9	128 - 136	C 132.3	2.0	162 - 170	C 166.0	2.6	46
Roche Cobas dil ISE	17	142 - 150	C 146.3	2.1	129 - 137	C 132.7	1.8	156 - 164	C 160.4	2.1	125 - 133	C 128.8	1.7	153 - 161	C 156.6	1.9	32
Siemens QuickLYTE IMT	18	143 - 151	C 147.3	2.0	130 - 138	C 134.4	1.6	156 - 164	C 159.9	2.2	127 - 135	C 130.6	1.5	152 - 160	C 156.4	2.2	83
Initial Grouping bySensitivityor Principle																	
Undiluted ISE	19	145 - 153	C 148.7	3.5	130 - 138	C 134.2	2.8	159 - 167	C 163.3	5.1	126 - 134	C 129.9	2.8	155 - 163	C 159.3	4.6	186
Diluted ISE	20	141 - 149	C 145.4	1.9	128 - 136	C 132.0	1.7	155 - 163	C 158.8	2.2	124 - 132	C 128.0	1.6	151 - 159	C 155.1	2.1	154
Total Population																	
Whole Population	21	143 - 151	C 147.3	3.3	129 - 137	C 133.2	2.6	157 - 165	C 161.3	4.6	125 - 133	C 129.1	2.5	153 - 161	C 157.4	4.2	349

Protein, Total

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	5.0 - 6.1	P 5.52	0.08	3.3 - 4.1	P 3.69	0.09	6.6 - 8.1	P 7.33	0.09	2.8 - 3.4	P 3.11	0.09	6.1 - 7.5	P 6.82	0.09	20
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	5.0 - 6.1	P 5.59	0.21	3.4 - 4.2	P 3.8	0.14	6.6 - 8.0	P 7.28	0.31	2.9 - 3.6	P 3.23	0.13	6.1 - 7.5	P 6.82	0.27	16
All refractometers & All other refractometers	3	6.4 - 7.8	P 7.1	0.31	4.4 - 5.4	P 4.92	0.12	8.3 - 10.1	P 9.21	0.13	3.8 - 4.6	P 4.22	0.1	7.7 - 9.5	P 8.6	0.14	282
All refractometers & Reichert TS Meter-DSP	4	6.3 - 7.8	P 7.05	0.11	4.4 - 5.4	P 4.91	0.11	8.3 - 10.1	P 9.21	0.1	3.8 - 4.6	P 4.21	0.08	7.7 - 9.4	P 8.59	0.09	108
Beckman Olympus & Beck Olym AU 400/600/5400	5	4.9 - 6.0	P 5.41	0.11	3.3 - 4.1	P 3.71	0.09	6.4 - 7.8	P 7.06	0.13	2.8 - 3.5	P 3.16	0.08	5.9 - 7.2	P 6.59	0.12	30
Beckman Olympus & Beckman AU 480	6	4.9 - 5.9	P 5.4	0.09	3.3 - 4.1	P 3.69	0.07	6.3 - 7.7	P 7.03	0.13	2.8 - 3.5	P 3.14	0.06	5.9 - 7.2	P 6.56	0.13	25
Ortho Vitros & Ortho Vitros 3600, 5600	7	4.9 - 5.9	P 5.39	0.18	3.4 - 4.2	P 3.79	0.16	6.2 - 7.6	P 6.91	0.28	2.9 - 3.6	P 3.25	0.12	5.8 - 7.1	P 6.49	0.27	17
Ortho Vitros & Ortho Vitros not DT or ECI	8	4.8 - 5.9	P 5.37	0.12	3.4 - 4.2	P 3.78	0.1	6.2 - 7.6	P 6.91	0.15	2.9 - 3.6	P 3.26	0.07	5.9 - 7.1	P 6.5	0.18	23
Reichert TS Meter-DSP & Reichert TS Meter-DSP	9	6.4 - 7.8	P 7.09	0.25	4.4 - 5.4	P 4.91	0.1	8.3 - 10.1	P 9.22	0.11	3.8 - 4.6	P 4.22	0.09	7.7 - 9.5	P 8.6	0.11	262
Roche Cobas & Roche Cobas Integra	10	4.9 - 6.0	P 5.45	0.11	3.4 - 4.1	P 3.76	0.06	6.4 - 7.8	P 7.1	0.13	2.9 - 3.5	P 3.21	0.07	6.0 - 7.3	P 6.65	0.15	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	5.0 - 6.1	P 5.56	0.1	3.4 - 4.2	P 3.83	0.08	6.5 - 8.0	P 7.24	0.13	2.9 - 3.6	P 3.26	0.06	6.1 - 7.4	P 6.77	0.13	16
Siemens Dimension & Siemens Dimension EXL	12	5.1 - 6.3	P 5.71	0.11	3.5 - 4.3	P 3.91	0.07	6.7 - 8.2	P 7.47	0.14	3.0 - 3.7	P 3.32	0.07	6.3 - 7.7	P 6.98	0.13	51
Siemens Dimension & Siemens Dimension Xpand	13	5.1 - 6.3	P 5.71	0.07	3.5 - 4.3	P 3.91	0.06	6.8 - 8.3	P 7.52	0.17	3.0 - 3.7	P 3.32	0.05	6.3 - 7.7	P 7.03	0.17	17

Initial Grouping byReagent

Abbott	14	5.0 - 6.1	P 5.52	0.08	3.3 - 4.1	P 3.69	0.09	6.6 - 8.1	P 7.33	0.09	2.8 - 3.4	P 3.11	0.09	6.1 - 7.5	P 6.82	0.09	20
Alfa Wassermann	15	5.0 - 6.1	P 5.59	0.2	3.4 - 4.2	P 3.81	0.13	6.6 - 8.0	P 7.29	0.31	2.9 - 3.6	P 3.24	0.13	6.1 - 7.5	P 6.83	0.26	17
All refractometers	16	6.4 - 7.8	P 7.09	0.27	4.4 - 5.4	P 4.92	0.12	8.3 - 10.1	P 9.21	0.13	3.8 - 4.6	P 4.22	0.1	7.7 - 9.4	P 8.59	0.13	393
Beckman Olympus	17	4.9 - 6.0	P 5.41	0.1	3.3 - 4.1	P 3.7	0.08	6.3 - 7.7	P 7.04	0.13	2.8 - 3.5	P 3.15	0.08	5.9 - 7.2	P 6.58	0.13	57
Carolina	18	5.0 - 6.1	P 5.52	0.31	3.4 - 4.2	P 3.79	0.16	6.5 - 7.9	P 7.17	0.28	2.9 - 3.5	P 3.19	0.12	6.0 - 7.4	P 6.7	0.25	16
Ortho Vitros	19	4.8 - 5.9	P 5.37	0.15	3.4 - 4.1	P 3.77	0.13	6.2 - 7.6	P 6.9	0.21	2.9 - 3.6	P 3.24	0.1	5.8 - 7.1	P 6.48	0.22	46
Pointe Scientific	20	5.1 - 6.3	P 5.71	0.34	3.5 - 4.3	P 3.91	0.25	6.7 - 8.2	P 7.41	0.2	3.0 - 3.6	P 3.3	0.15	6.3 - 7.7	P 7.0	0.4	10
Reichert TS Meter-DSP	21	6.4 - 7.8	P 7.09	0.25	4.4 - 5.4	P 4.92	0.1	8.3 - 10.1	P 9.22	0.11	3.8 - 4.6	P 4.22	0.09	7.7 - 9.5	P 8.6	0.11	264
Roche Cobas	22	5.0 - 6.1	P 5.54	0.12	3.4 - 4.2	P 3.81	0.08	6.5 - 7.9	P 7.19	0.15	2.9 - 3.6	P 3.24	0.07	6.1 - 7.4	P 6.73	0.14	36
Siemens Dimension	23	5.1 - 6.3	P 5.72	0.11	3.5 - 4.3	P 3.92	0.07	6.7 - 8.2	P 7.49	0.16	3.0 - 3.7	P 3.33	0.07	6.3 - 7.7	P 7.0	0.15	76
Siemens biuret based	24	5.1 - 6.3	P 5.69	0.11	3.5 - 4.3	P 3.9	0.09	6.7 - 8.2	P 7.47	0.1	3.0 - 3.7	P 3.32	0.07	6.3 - 7.7	P 6.97	0.13	11

Initial Grouping bySensitivityor Principle

Bichromatic-no sam blanks	25	4.9 - 6.0	P 5.49	0.17	3.4 - 4.1	P 3.75	0.17	6.5 - 7.9	P 7.18	0.23	2.9 - 3.5	P 3.2	0.18	6.0 - 7.4	P 6.7	0.22	132
All refractometer users	26	6.4 - 7.8	P 7.09	0.27	4.4 - 5.4	P 4.92	0.12	8.3 - 10.1	P 9.21	0.13	3.8 - 4.6	P 4.22	0.1	7.7 - 9.4	P 8.59	0.13	393
Rate	27	5.0 - 6.1	P 5.51	0.27	3.4 - 4.2	P 3.78	0.14	6.5 - 7.9	P 7.18	0.25	2.9 - 3.5	P 3.2	0.11	6.0 - 7.4	P 6.71	0.22	22
Uncorrected	28	4.9 - 6.0	P 5.47	0.28	3.4 - 4.2	P 3.79	0.21	6.4 - 7.8	P 7.07	0.37	2.9 - 3.6	P 3.25	0.17	6.0 - 7.3	P 6.62	0.39	80
Bichromatic-sample blanked	29	5.2 - 6.3	P 5.74	0.2	3.5 - 4.3	P 3.92	0.14	6.8 - 8.3	P 7.52	0.33	3.0 - 3.7	P 3.34	0.13	6.3 - 7.7	P 7.01	0.24	78
Just sample blanked	30	5.0 - 6.1	P 5.54	0.12	3.4 - 4.2	P 3.81	0.08	6.5 - 7.9	P 7.19	0.15	2.9 - 3.6	P 3.24	0.07	6.1 - 7.4	P 6.73	0.14	36
Total Population																	
Whole Population	31	5.9 - 7.2	P 6.56	0.77	4.1 - 5.0	P 4.53	0.55	7.7 - 9.4	P 8.53	0.97	3.5 - 4.3	P 3.88	0.48	7.2 - 8.8	P 7.96	0.9	1007

Triglycerides

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	113 - 189	P 151.2	2.6	84 - 139	P 111.4	2.0	142 - 237	P 189.6	2.5	74 - 123	P 98.3	1.6	134 - 223	P 178.2	2.3	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	123 - 204	P 163.5	5.5	93 - 154	P 123.4	4.1	149 - 248	P 198.7	7.7	83 - 138	P 110.1	3.4	142 - 236	P 189.0	5.4	14
Beckman GPO glycerol-unc & Beck Coult Unicel DXC	3	125 - 208	P 166.5	3.6	92 - 154	P 122.8	5.4	158 - 264	P 211.3	9.9	81 - 135	P 108.1	4.4	147 - 246	P 196.5	5.9	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	118 - 198	P 158.0	5.2	88 - 147	P 117.5	3.9	148 - 246	P 196.9	6.0	77 - 129	P 103.2	3.9	140 - 233	P 186.7	6.1	25
Beckman Olympus & Beckman AU 480	5	120 - 199	P 159.5	6.0	89 - 149	P 119.0	4.9	150 - 250	P 199.6	6.9	79 - 131	P 105.2	4.2	141 - 236	P 188.6	6.9	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	127 - 211	P 168.7	3.0	92 - 153	P 122.4	2.0	162 - 270	P 216.1	3.7	81 - 135	P 107.9	3.2	152 - 253	P 202.3	3.4	17
Ortho Vitros & Ortho Vitros not DT or ECI	7	128 - 213	P 170.1	4.5	92 - 154	P 123.2	4.0	165 - 275	P 219.6	6.3	82 - 136	P 109.0	3.5	154 - 257	P 205.6	6.1	21
Roche Cobas & Roche Cobas Integra	8	121 - 201	P 161.0	5.5	91 - 152	P 121.3	3.5	148 - 247	P 197.8	6.1	81 - 135	P 108.1	2.8	140 - 233	P 186.3	6.0	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	121 - 202	P 161.6	2.4	91 - 151	P 121.0	2.2	150 - 250	P 199.7	3.0	81 - 135	P 107.7	1.7	141 - 235	P 188.1	2.9	15
Siemens Dimension & Siemens Dimension EXL	10	114 - 189	P 151.4	5.2	82 - 136	P 109.1	2.9	143 - 238	P 190.5	3.9	72 - 120	P 95.8	2.6	134 - 223	P 178.2	3.3	54
Siemens Dimension & Siemens Dimension Xpand	11	113 - 189	P 150.8	1.9	82 - 136	P 109.1	2.0	143 - 238	P 190.0	2.4	72 - 120	P 95.8	2.3	133 - 222	P 177.5	2.4	18

Initial Grouping by Reagent																		
Abbott	12	113 - 189	P 151.2	2.6	84 - 139	P 111.4	2.0	142 - 237	P 189.6	2.5	74 - 123	P 98.3	1.6	134 - 223	P 178.2	2.3	18	
Alfa Wassermann	13	123 - 204	P 163.5	5.5	93 - 154	P 123.4	4.1	149 - 248	P 198.7	7.7	83 - 138	P 110.1	3.4	142 - 236	P 189.0	5.4	14	
Beckman GPO glycerol-unc	14	125 - 208	P 166.1	4.6	92 - 153	P 122.6	5.4	158 - 263	P 210.0	9.7	81 - 135	P 108.1	4.3	147 - 244	P 195.4	6.7	16	
Beckman Olympus	15	119 - 199	P 159.1	6.1	89 - 148	P 118.3	4.3	149 - 248	P 198.3	6.5	78 - 130	P 104.3	4.2	141 - 234	P 187.6	6.4	49	
Carolina	16	109 - 181	P 145.0	17.6	82 - 136	P 108.7	11.2	137 - 228	P 182.3	23.1	70 - 117	P 93.5	11.9	129 - 215	P 172.0	21.7	15	
Ortho Vitros	17	127 - 212	P 169.5	4.0	92 - 154	P 123.0	3.4	164 - 273	P 218.1	5.6	81 - 136	P 108.4	3.3	153 - 255	P 204.0	5.3	44	
Pointe Scientific	18	109 - 182	P 145.7	7.3	83 - 139	P 111.2	4.7	136 - 226	P 181.1	12.2	72 - 120	P 96.2	5.8	130 - 216	P 172.9	9.4	16	
Roche Cobas	19	121 - 202	P 161.3	3.9	91 - 151	P 121.0	2.8	149 - 248	P 198.5	4.7	81 - 135	P 107.8	2.2	140 - 234	P 187.1	4.4	36	
Siemens Dimension	20	114 - 190	P 151.6	6.2	82 - 137	P 109.3	4.4	143 - 238	P 190.8	5.3	72 - 120	P 95.9	4.2	134 - 223	P 178.3	5.2	81	
Sterling Diagnostic	21	123 - 204	P 163.5	7.0	91 - 152	P 121.5	4.7	152 - 254	P 203.3	9.0	80 - 134	P 107.3	4.6	145 - 242	P 193.7	7.3	15	
Initial Grouping by Sensitivity or Principle																		
Gly-unc/visible/GPO-based	22	118 - 197	P 157.7	10.0	87 - 145	P 116.0	7.3	148 - 247	P 197.5	13.3	77 - 128	P 102.2	7.3	139 - 232	P 185.9	12.5	320	
Gly-unc/visible/INT-based	23	123 - 204	P 163.5	5.5	93 - 154	P 123.4	4.1	149 - 248	P 198.7	7.7	83 - 138	P 110.1	3.4	142 - 236	P 189.0	5.4	14	
Total Population																		
Whole Population	24	118 - 197	P 157.8	9.9	87 - 145	P 116.3	7.3	148 - 247	P 197.5	13.0	77 - 128	P 102.6	7.4	139 - 232	P 185.9	12.1	347	

Urea Nitrogen (BUN)

Initial Grouping by Reagent and Instrument																		
Abbott & Abbott Architect c, ci, i	1	23 - 28	P 25.7	0.7	12 - 16	C 13.8	0.5	34 - 41	P 37.6	1.0	8 - 12	C 10.0	0.3	31 - 37	P 34.2	0.7	18	
Alfa Wassermann & Alfa Wasser Excel/Alera	2	22 - 27	P 24.5	1.2	12 - 16	C 13.5	0.7	33 - 39	P 36.0	1.9	8 - 12	C 9.9	0.7	30 - 36	P 32.6	1.8	17	
Beckman GLDH-rate & Beck Coulter Unicel DXC	3	24 - 29	P 26.4	0.5	13 - 17	C 14.5	0.5	35 - 42	P 38.7	0.9	9 - 13	C 11.0	0.0	32 - 38	P 35.1	1.1	11	
Beckman Olympus & Beck Olym AU 400/600/5400	4	23 - 28	P 25.5	0.9	12 - 16	C 13.8	0.6	33 - 40	P 36.7	1.4	8 - 12	C 10.0	0.5	30 - 36	P 33.3	1.4	29	
Beckman Olympus & Beckman AU 480	5	24 - 28	P 26.1	0.5	12 - 16	C 14.0	0.4	34 - 41	P 37.5	0.9	8 - 12	C 10.2	0.5	31 - 37	P 34.3	0.8	25	
Ortho Vitros & Ortho Vitros 3600, 5600	6	19 - 23	C 20.8	0.4	9 - 13	C 11.2	0.4	28 - 34	P 30.9	0.7	6 - 10	C 8.1	0.4	25 - 30	P 27.8	0.6	17	
Ortho Vitros & Ortho Vitros not DT or ECi	7	19 - 23	C 21.0	0.5	10 - 14	C 11.5	0.5	28 - 34	P 31.0	0.7	6 - 10	C 8.2	0.5	25 - 31	P 28.0	1.1	23	
Roche Cobas & Roche Cobas Integra	8	23 - 28	P 25.3	0.9	12 - 16	C 13.7	0.5	33 - 40	P 36.5	0.8	8 - 12	C 9.7	0.6	31 - 37	P 33.6	1.0	12	
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	24 - 28	P 25.9	0.7	12 - 16	C 13.9	0.4	34 - 41	P 37.5	0.9	8 - 12	C 10.0	0.4	31 - 37	P 33.8	0.7	16	
Siemens GLDH-rate & Siemens Dimension EXL	10	24 - 29	P 26.5	0.8	12 - 16	C 14.4	0.7	35 - 42	P 38.1	1.1	9 - 13	C 10.5	0.7	31 - 38	P 34.6	1.0	54	
Siemens GLDH-rate & Siemens Dimension Xpand	11	24 - 29	P 26.3	0.7	12 - 16	C 14.4	0.5	35 - 42	P 38.1	1.1	8 - 12	C 10.3	0.7	32 - 38	P 35.1	1.2	17	
Initial Grouping by Reagent																		
Abbott	12	23 - 28	P 25.7	0.7	12 - 16	C 13.8	0.5	34 - 41	P 37.6	1.0	8 - 12	C 10.0	0.3	31 - 37	P 34.2	0.7	18	
Alfa Wassermann	13	22 - 27	P 24.6	1.2	12 - 16	C 13.6	0.7	33 - 39	P 36.0	1.9	8 - 12	C 9.9	0.7	30 - 36	P 32.7	1.8	18	
Beckman GLDH-rate	14	24 - 28	P 26.1	0.6	12 - 16	C 14.3	0.6	35 - 42	P 38.3	1.2	9 - 13	C 10.8	0.4	31 - 38	P 34.6	1.4	14	
Beckman Olympus	15	23 - 28	P 25.7	0.9	12 - 16	C 13.9	0.6	34 - 40	P 37.1	1.2	8 - 12	C 10.1	0.5	31 - 37	P 33.7	1.3	56	
Carolina	16	24 - 29	P 26.9	1.3	13 - 17	C 14.9	1.0	35 - 42	P 38.9	2.3	9 - 13	C 11.0	0.8	32 - 39	P 35.6	1.7	14	
Ortho Vitros	17	19 - 23	C 20.9	0.4	9 - 13	C 11.4	0.5	28 - 34	P 31.0	0.8	6 - 10	C 8.1	0.4	25 - 30	P 27.9	1.0	46	
Roche Cobas	18	23 - 28	P 25.6	0.9	12 - 16	C 13.8	0.5	34 - 41	P 37.2	1.1	8 - 12	C 9.9	0.5	31 - 37	P 33.8	1.0	37	
Siemens GLDH-rate	19	24 - 29	P 26.6	1.0	13 - 17	C 14.5	0.7	35 - 42	P 38.2	1.4	9 - 13	C 10.5	0.8	32 - 38	P 34.9	1.3	82	
Initial Grouping by Sensitivity or Principle																		
Glutamate DH-rate methods	20	24 - 28	P 25.9	1.3	12 - 16	C 14.1	0.9	34 - 41	P 37.4	1.7	8 - 12	C 10.2	0.8	31 - 37	P 34.1	1.9	295	
Glutamate DH-endpoint meths	21	23 - 28	P 25.7	1.6	12 - 16	C 14.0	1.2	34 - 40	P 37.0	2.4	8 - 12	C 10.1	1.1	31 - 37	P 33.9	2.1	10	
Ammonia (NH3) diffusion	22	19 - 23	C 20.9	0.4	9 - 13	C 11.4	0.5	28 - 34	P 31.0	0.8	6 - 10	C 8.1	0.4	25 - 30	P 27.9	1.0	46	
Total Population																		
Whole Population	23	23 - 28	P 25.3	2.1	12 - 16	C 13.8	1.3	33 - 40	P 36.6	2.8	8 - 12	C 10.0	1.1	30 - 36	P 33.3	2.7	363	

Uric Acid

Initial Grouping by Reagent and Instrument																		
Abbott Architect & Abbott Architect c, ci, i	1	5.9 - 8.4	P 7.14	0.06	3.2 - 4.5	P 3.86	0.05	8.6 - 12.1	P 10.38	0.09	2.3 - 3.3	P 2.79	0.03	7.9 - 11.1	P 9.46	0.1	14	
Alfa Wassermann & Alfa Wasser Excel/Alera	2	5.7 - 8.0	P 6.82	0.27	3.4 - 4.8	P 4.12	0.1	8.0 - 11.2	P 9.6	0.38	2.8 - 3.9	P 3.34	0.18	7.3 - 10.3	P 8.79	0.32	10	
Beckman Coulter & Beck Coulter Unicel DXC	3	5.2 - 7.4	P 6.3	0.18	2.9 - 4.1	P 3.52	0.1	7.5 - 10.5	P 9.01	0.22	2.1 - 3.0	P 2.56	0.07	6.9 - 9.7	P 8.28	0.2	13	
Beckman Olympus & Beck Olym AU 400/600/5400	4	5.5 - 7.7	P 6.61	0.17	3.0 - 4.2	P 3.62	0.12	7.9 - 11.2	P 9.57	0.26	2.2 - 3.1	P 2.63	0.08	7.2 - 10.2	P 8.73	0.22	23	
Beckman Olympus & Beckman AU 480	5	5.5 - 7.8	P 6.64	0.11	3.0 - 4.3	P 3.64	0.08	8.0 - 11.3	P 9.64	0.2	2.2 - 3.1	P 2.67	0.06	7.3 - 10.3	P 8.8	0.18	15	
Ortho Vitros & Ortho Vitros 3600, 5600	6	5.5 - 7.7	P 6.61	0.17	3.0 - 4.2	P 3.59	0.12	7.9 - 11.1	P 9.51	0.25	2.1 - 3.0	P 2.55	0.1	7.2 - 10.2	P 8.71	0.3	15	
Ortho Vitros & Ortho Vitros not DT or ECi	7	5.3 - 7.5	P 6.43	0.13	2.9 - 4.1	P 3.47	0.08	7.7 - 10.9	P 9.3	0.22	2.0 - 2.9	P 2.46	0.07	6.9 - 9.8	P 8.37	0.35	16	
Roche Cobas & Roche Cobas Integra	8	5.5 - 7.8	P 6.64	0.17	3.0 - 4.2	P 3.6	0.1	7.9 - 11.2	P 9.57	0.23	2.1 - 3.0	P 2.56	0.07	7.2 - 10.2	P 8.72	0.2	11	
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	5.4 - 7.6	P 6.52	0.19	2.9 - 4.1	P 3.51	0.09	7.8 - 11.0	P 9.4	0.2	2.1 - 3.0	P 2.54	0.08	7.1 - 10.0	P 8.59	0.16	15	
Siemens Dimension & Siemens Dimension EXL	10	5.3 - 7.5	P 6.43	0.11	2.9 - 4.1	P 3.52	0.11	7.7 - 10.8	P 9.26	0.18	2.1 - 3.0	P 2.57	0.07	7.0 - 9.9	P 8.45	0.15	55	
Siemens Dimension & Siemens Dimension Xpand	11	5.3 - 7.4	P 6.34	0.12	2.9 - 4.0	P 3.45	0.11	7.5 - 10.6	P 9.06	0.21	2.1 - 2.9	P 2.51	0.11	6.9 - 9.7	P 8.32	0.18	16	
Initial Grouping by Reagent																		
Abbott Architect	12	5.9 - 8.4	P 7.14	0.06	3.2 - 4.5	P 3.86	0.05	8.6 - 12.1	P 10.38	0.09	2.3 - 3.3	P 2.79	0.03	7.9 - 11.1	P 9.46	0.1	14	

Alfa Wassermann	13	5.7 - 8.0	P 6.84	0.26	3.4 - 4.8	P 4.14	0.11	8.0 - 11.2	P 9.6	0.36	2.8 - 3.9	P 3.36	0.17	7.3 - 10.3	P 8.79	0.31	11
Beckman Coulter	14	5.3 - 7.5	P 6.41	0.21	2.9 - 4.2	P 3.55	0.11	7.7 - 10.8	P 9.22	0.35	2.1 - 3.0	P 2.58	0.08	7.0 - 9.9	P 8.44	0.28	21
Beckman Olympus	15	5.5 - 7.8	P 6.63	0.15	3.0 - 4.2	P 3.62	0.1	8.0 - 11.2	P 9.6	0.23	2.2 - 3.1	P 2.65	0.07	7.3 - 10.2	P 8.75	0.2	40
Carolina	16	5.5 - 7.7	P 6.59	0.43	3.0 - 4.3	P 3.67	0.33	7.8 - 11.0	P 9.36	0.52	2.2 - 3.1	P 2.67	0.28	7.1 - 10.1	P 8.59	0.47	14
Ortho Vitros	17	5.4 - 7.6	P 6.53	0.17	2.9 - 4.1	P 3.54	0.12	7.8 - 11.0	P 9.41	0.25	2.1 - 2.9	P 2.51	0.1	7.1 - 10.0	P 8.55	0.35	34
Roche Cobas	18	5.4 - 7.7	P 6.55	0.2	2.9 - 4.1	P 3.53	0.11	7.8 - 11.0	P 9.44	0.24	2.1 - 3.0	P 2.54	0.07	7.2 - 10.1	P 8.63	0.21	34
Siemens Dimension	19	5.3 - 7.5	P 6.41	0.12	2.9 - 4.1	P 3.5	0.12	7.6 - 10.8	P 9.21	0.21	2.1 - 3.0	P 2.55	0.09	7.0 - 9.8	P 8.4	0.17	78
Initial Grouping by Sensitivity or Principle																	
Endpt-corrected(bic or SB)	20	5.5 - 7.8	P 6.68	0.27	3.0 - 4.3	P 3.66	0.22	8.0 - 11.3	P 9.64	0.43	2.2 - 3.1	P 2.67	0.25	7.3 - 10.3	P 8.78	0.4	112
Rate	21	5.4 - 7.6	P 6.46	0.22	2.9 - 4.1	P 3.53	0.15	7.7 - 10.9	P 9.29	0.32	2.1 - 3.0	P 2.57	0.12	7.0 - 9.9	P 8.49	0.28	148
Endpoint-uncorrected	22	5.7 - 8.1	P 6.89	0.39	3.2 - 4.5	P 3.87	0.33	8.1 - 11.4	P 9.78	0.52	2.3 - 3.3	P 2.78	0.31	7.5 - 10.5	P 8.99	0.5	31
Total Population																	
Whole Population	23	5.5 - 7.7	P 6.59	0.3	3.0 - 4.2	P 3.62	0.23	7.9 - 11.1	P 9.48	0.44	2.2 - 3.1	P 2.63	0.22	7.2 - 10.1	P 8.65	0.4	291