

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	72 - 108	P 89.8	2.0	15 - 22	P 18.5	3.1	130 - 195	P 162.8	3.0	208 - 312	P 260.0	4.0	14 - 21	P 17.4	1.1	17
Alfa Wassermann & Alfa Wasser Excel/Alera	2	55 - 83	P 68.9	2.9	7 - 10	P 8.4	6.8	104 - 155	P 129.4	3.7	168 - 253	P 210.6	11.4	11 - 16	P 13.5	1.8	18
Beckman Coulter & Beck Coulter Unicel DXC	3	73 - 110	P 91.7	1.3	24 - 36	P 30.1	3.5	127 - 190	P 158.5	2.6	197 - 296	P 246.6	2.8	20 - 29	P 24.4	1.1	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	61 - 92	P 76.3	2.2	14 - 22	P 18.1	2.9	110 - 165	P 137.7	4.8	176 - 264	P 219.7	7.3	12 - 18	P 15.0	1.0	23
Beckman Olympus & Beckman AU 480	5	62 - 94	P 78.1	2.3	15 - 22	P 18.5	2.5	113 - 170	P 141.3	4.2	180 - 270	P 224.7	6.4	12 - 18	P 15.3	0.6	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	83 - 124	P 103.3	4.1	18 - 27	P 22.4	4.7	131 - 197	P 164.2	7.6	193 - 290	P 241.4	11.2	28 - 43	P 35.6	7.3	14
Ortho Vitros & Ortho Vitros not DT or ECI	7	82 - 123	P 102.2	4.9	19 - 28	P 23.5	5.4	131 - 196	P 163.2	4.6	194 - 291	P 242.3	7.2	30 - 45	P 37.1	5.1	17
Roche Cobas & Roche Cobas Integra	8	68 - 102	P 85.4	1.3	15 - 23	P 18.9	2.5	123 - 184	P 153.4	1.7	192 - 288	P 240.4	3.7	14 - 21	P 17.9	0.7	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	69 - 103	P 86.1	1.7	15 - 23	P 19.1	2.9	123 - 185	P 154.1	2.4	196 - 295	P 245.6	5.3	14 - 21	P 17.4	0.7	14
Siemens ALTI & Siemens Dimension EXL	10	74 - 111	P 92.7	1.9	19 - 29	P 24.0	3.8	131 - 197	P 164.2	3.2	206 - 309	P 257.3	4.2	16 - 23	P 19.5	2.9	38
Siemens Dimension & Siemens Dimension EXL	11	73 - 110	P 91.5	1.6	18 - 28	P 23.0	4.1	130 - 195	P 162.9	2.0	202 - 303	P 252.5	4.5	16 - 24	P 19.8	1.0	11
Initial Grouping by Reagent																	
Abbott	12	72 - 108	P 89.8	2.0	15 - 22	P 18.5	3.1	130 - 195	P 162.8	3.0	208 - 312	P 260.0	4.0	14 - 21	P 17.4	1.1	17
Alfa Wassermann	13	55 - 83	P 68.9	2.9	7 - 10	P 8.4	6.8	104 - 155	P 129.4	3.7	168 - 253	P 210.6	11.4	11 - 16	P 13.5	1.8	18
Beckman Coulter	14	67 - 101	P 84.3	7.1	18 - 28	P 23.0	7.2	119 - 179	P 148.8	9.7	188 - 281	P 234.5	12.5	16 - 23	P 19.4	4.7	22
Beckman Olympus	15	62 - 93	P 77.1	2.4	15 - 22	P 18.3	2.7	111 - 167	P 139.3	4.8	178 - 266	P 221.9	7.2	12 - 18	P 15.2	0.9	45
Ortho Vitros	16	83 - 124	P 103.3	4.5	19 - 28	P 23.3	5.6	131 - 197	P 163.9	5.8	194 - 291	P 242.2	9.0	30 - 45	P 37.4	6.2	38
Roche Cobas	17	68 - 102	P 85.3	1.8	15 - 23	P 18.9	2.5	123 - 184	P 153.2	2.3	194 - 291	P 242.9	5.1	14 - 21	P 17.3	0.8	32
Siemens ALTI	18	75 - 112	P 93.2	2.2	20 - 30	P 24.6	4.0	132 - 198	P 165.0	3.9	207 - 310	P 258.3	5.1	16 - 24	P 20.0	3.0	52
Siemens Dimension	19	74 - 111	P 92.5	3.1	19 - 29	P 24.3	4.0	131 - 196	P 163.7	4.3	203 - 305	P 254.2	6.4	17 - 25	P 20.7	2.0	19
Initial Grouping by Sensitivity or Principle																	
Other no P5P	20	61 - 92	P 76.8	8.8	13 - 20	P 16.5	9.6	112 - 168	P 139.8	12.2	179 - 269	P 223.8	19.0	13 - 20	P 16.7	4.0	37
Standardized methods	21	67 - 100	P 83.2	7.6	16 - 24	P 20.4	5.6	119 - 179	P 148.9	13.4	189 - 283	P 236.2	21.2	14 - 21	P 17.2	3.6	125
Other P5P	22	75 - 112	P 93.4	7.3	22 - 33	P 27.2	6.7	132 - 197	P 164.5	12.0	205 - 307	P 255.7	20.5	15 - 23	P 18.8	2.4	10
Vitros and related methods	23	83 - 124	P 103.3	4.5	19 - 28	P 23.3	5.6	131 - 197	P 163.9	5.8	194 - 291	P 242.2	9.0	30 - 45	P 37.4	6.2	38
Roche and related	24	68 - 102	P 85.3	1.8	15 - 23	P 18.9	2.5	123 - 184	P 153.2	2.3	194 - 291	P 242.9	5.1	14 - 21	P 17.3	0.8	32
Siemens and related	25	74 - 112	P 93.0	2.8	20 - 29	P 24.4	4.1	132 - 198	P 164.7	4.4	206 - 309	P 257.5	6.9	16 - 24	P 20.2	3.0	73
Total Population																	
Whole Population	26	70 - 105	P 87.7	9.9	17 - 26	P 21.3	6.4	123 - 185	P 154.3	13.4	193 - 290	P 241.8	19.4	16 - 24	P 20.2	7.3	316
Albumin																	
Initial Grouping by Reagent and Instrument																	
Alfa Wassermann & Alfa Wasser Excel/Alera	1	2.9 - 3.5	P 3.18	0.05	6.1 - 7.4	P 6.76	0.11	3.8 - 4.7	P 4.25	0.08	5.0 - 6.1	P 5.57	0.12	1.9 - 2.3	P 2.09	0.05	16
Beckman Olympus & Beck Olym AU 400/600/5400	2	2.8 - 3.4	P 3.06	0.09	5.8 - 7.1	P 6.49	0.33	3.8 - 4.6	P 4.18	0.12	5.0 - 6.1	P 5.54	0.16	1.7 - 2.1	P 1.87	0.06	23
Beckman Olympus & Beckman AU 480	3	2.8 - 3.4	P 3.1	0.09	5.9 - 7.2	P 6.59	0.26	3.8 - 4.6	P 4.21	0.12	5.0 - 6.1	P 5.56	0.17	1.7 - 2.1	P 1.91	0.07	24
Ortho Vitros & Ortho Vitros 3600, 5600	4	2.5 - 3.0	P 2.76	0.11	5.5 - 6.8	P 6.16	0.23	3.6 - 4.4	P 4.01	0.23	4.9 - 6.0	P 5.46	0.25	1.5 - 1.8	P 1.62	0.06	19
Ortho Vitros & Ortho Vitros not DT or ECI	5	2.5 - 3.1	P 2.78	0.1	5.8 - 7.0	P 6.4	0.16	3.6 - 4.4	P 3.99	0.16	4.9 - 6.0	P 5.48	0.22	1.5 - 1.8	P 1.63	0.06	21
Siemens BCP & Siemens Dimension EXL	6	2.4 - 3.0	P 2.7	0.06	6.0 - 7.3	P 6.65	0.14	3.3 - 4.0	P 3.63	0.07	4.4 - 5.3	P 4.86	0.08	1.6 - 1.9	P 1.76	0.05	48
Siemens BCP & Siemens Dimension Xpand	7	2.4 - 3.0	P 2.71	0.1	6.0 - 7.4	P 6.69	0.22	3.3 - 4.0	P 3.64	0.12	4.4 - 5.4	P 4.87	0.17	1.6 - 1.9	P 1.76	0.07	15
Initial Grouping by Reagent																	
Alfa Wassermann	8	2.9 - 3.5	P 3.18	0.05	6.1 - 7.4	P 6.76	0.11	3.8 - 4.7	P 4.25	0.08	5.0 - 6.1	P 5.57	0.12	1.9 - 2.3	P 2.09	0.05	16
Beckman Olympus	9	2.8 - 3.4	P 3.08	0.09	5.9 - 7.2	P 6.54	0.3	3.8 - 4.6	P 4.19	0.12	5.0 - 6.1	P 5.54	0.16	1.7 - 2.1	P 1.89	0.07	49
Ortho Vitros	10	2.5 - 3.0	P 2.77	0.1	5.7 - 6.9	P 6.3	0.23	3.6 - 4.4	P 3.99	0.2	4.9 - 6.0	P 5.46	0.24	1.5 - 1.8	P 1.63	0.06	48
Roche Cobas	11	3.0 - 3.6	P 3.28	0.09	6.1 - 7.4	P 6.76	0.46	4.0 - 4.9	P 4.42	0.09	5.2 - 6.4	P 5.8	0.12	1.8 - 2.2	P 2.04	0.06	13
Roche Cobas BCG, gen II	12	3.0 - 3.7	P 3.32	0.08	6.0 - 7.3	P 6.66	0.53	4.0 - 4.9	P 4.46	0.1	5.3 - 6.5	P 5.87	0.1	1.8 - 2.2	P 2.04	0.08	18
Siemens BCP	13	2.4 - 3.0	P 2.71	0.08	6.0 - 7.3	P 6.66	0.17	3.3 - 4.0	P 3.64	0.08	4.4 - 5.3	P 4.86	0.11	1.6 - 1.9	P 1.76	0.06	69
Initial Grouping by Sensitivity or Principle																	
BCP-bromocresol purple	14	2.5 - 3.0	P 2.73	0.09	6.0 - 7.3	P 6.65	0.21	3.3 - 4.0	P 3.66	0.11	4.4 - 5.4	P 4.87	0.15	1.6 - 2.0	P 1.79	0.09	85

BCG-rapid (60 sec or less)	15	2.7 - 3.2	P 2.95	0.18	5.8 - 7.1	P 6.45	0.3	3.7 - 4.5	P 4.11	0.19	5.0 - 6.1	P 5.51	0.21	1.6 - 2.0	P 1.79	0.15	119
BCG-bromcresol green	16	2.9 - 3.5	P 3.22	0.13	6.0 - 7.3	P 6.68	0.4	3.9 - 4.7	P 4.3	0.2	5.1 - 6.2	P 5.65	0.29	1.8 - 2.3	P 2.05	0.1	100
Total Population																	
Whole Population	17	2.7 - 3.3	P 2.98	0.24	5.9 - 7.2	P 6.59	0.33	3.6 - 4.4	P 4.04	0.31	4.8 - 5.9	P 5.37	0.39	1.7 - 2.1	P 1.88	0.17	306

Alkaline Phosphatase

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	88 - 163	P 125.3	5.6	75 - 139	P 107.2	5.1	148 - 275	P 211.2	10.3	224 - 416	P 319.8	14.2	24 - 45	P 34.6	1.5	15
Alfa Wassermann & Alfa Wasser Axel/Alera	2	84 - 155	P 119.4	9.3	72 - 134	P 102.7	7.5	139 - 258	P 198.8	14.8	211 - 393	P 302.1	22.3	23 - 44	P 33.5	2.7	17
Beckman Coulter & Beck Coult Unicel DXC	3	80 - 149	P 114.6	5.1	69 - 129	P 99.2	4.3	134 - 249	P 191.4	9.4	205 - 381	P 292.8	13.5	22 - 41	P 31.3	2.9	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	78 - 144	P 110.8	10.3	67 - 124	P 95.5	9.5	130 - 241	P 185.4	18.4	198 - 367	P 282.5	24.8	21 - 39	P 30.0	2.7	21
Beckman Olympus & Beckman AU 480	5	79 - 147	P 112.7	8.5	68 - 127	P 97.5	7.7	133 - 246	P 189.3	13.8	201 - 374	P 287.4	21.3	21 - 40	P 30.4	2.3	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	77 - 143	P 110.2	3.6	89 - 165	P 126.7	4.8	113 - 210	P 161.9	6.2	142 - 263	P 202.6	9.8	26 - 48	P 37.3	2.2	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	77 - 144	P 110.4	6.8	87 - 162	P 124.4	8.0	114 - 212	P 163.0	9.3	142 - 264	P 202.8	12.6	25 - 47	P 36.1	3.5	21
Roche IFCC Gen. 2 & Roche e/c, 1XX, X000, Elec series	8	86 - 161	P 123.5	4.5	78 - 145	P 111.3	2.5	145 - 269	P 207.1	8.0	218 - 406	P 312.1	10.1	24 - 44	P 34.2	1.1	12
Siemens Dimension & Siemens Dimension EXL	9	94 - 174	P 133.8	2.6	81 - 150	P 115.5	3.0	157 - 292	P 224.8	4.8	240 - 445	P 342.5	4.6	26 - 48	P 36.7	2.3	30
Siemens Dimension & Siemens Dimension Xpand	10	94 - 175	P 134.3	6.1	81 - 151	P 116.3	3.1	158 - 293	P 225.5	8.7	238 - 442	P 340.1	12.2	26 - 48	P 37.0	2.3	10
Siemens Dimension IFCC & Siemens Dimension EXL	11	93 - 174	P 133.5	2.8	81 - 151	P 116.3	3.0	158 - 293	P 225.1	4.8	239 - 444	P 341.6	6.3	26 - 48	P 36.6	2.0	19

Initial Grouping by Reagent

Abbott	12	88 - 163	P 125.3	5.6	75 - 139	P 107.2	5.1	148 - 275	P 211.2	10.3	224 - 416	P 319.8	14.2	24 - 45	P 34.6	1.5	15
Alfa Wassermann	13	84 - 155	P 119.4	9.3	72 - 134	P 102.7	7.5	139 - 258	P 198.8	14.8	211 - 393	P 302.1	22.3	23 - 44	P 33.5	2.7	17
Beckman Coulter	14	79 - 146	P 112.2	8.3	68 - 126	P 96.9	7.6	131 - 244	P 187.6	14.6	200 - 372	P 285.9	22.2	21 - 40	P 30.4	3.1	21
Beckman Olympus	15	78 - 145	P 111.6	9.3	68 - 125	P 96.5	8.5	131 - 244	P 187.4	16.1	199 - 370	P 284.8	22.8	21 - 39	P 30.3	2.5	42
Carolina	16	80 - 148	P 113.9	12.8	68 - 126	P 96.7	11.4	134 - 249	P 191.6	21.4	200 - 372	P 285.9	32.4	22 - 41	P 31.4	3.5	10
Ortho Vitros	17	77 - 143	P 110.1	5.8	88 - 163	P 125.3	7.6	114 - 211	P 162.4	8.6	141 - 263	P 202.1	12.0	26 - 48	P 36.8	3.3	47
Roche IFCC Gen. 2	18	87 - 162	P 124.9	4.9	78 - 145	P 111.9	3.8	147 - 273	P 209.7	9.0	222 - 412	P 316.7	12.4	24 - 45	P 34.8	1.5	28
Siemens Dimension	19	94 - 174	P 133.7	3.8	81 - 150	P 115.6	2.9	157 - 292	P 224.7	5.8	239 - 444	P 341.5	7.2	26 - 48	P 36.6	2.2	44
Siemens Dimension IFCC	20	93 - 173	P 132.7	4.2	81 - 150	P 115.1	4.1	156 - 290	P 223.3	7.4	238 - 442	P 340.0	9.5	25 - 47	P 36.2	2.4	26

Initial Grouping by Sensitivity or Principle

IFCC Standardized	21	82 - 152	P 117.1	12.6	71 - 132	P 101.3	10.8	137 - 254	P 195.4	20.4	208 - 386	P 296.6	31.3	23 - 42	P 32.4	4.2	151
Vitros and related methods	22	77 - 143	P 110.1	5.8	88 - 163	P 125.3	7.6	114 - 211	P 162.4	8.6	141 - 263	P 202.1	12.0	26 - 48	P 36.8	3.3	47
IFCC Gen 2	23	90 - 167	P 128.6	6.0	79 - 148	P 113.5	4.3	151 - 281	P 216.4	10.7	230 - 426	P 327.9	16.1	25 - 46	P 35.5	2.1	54
Siemens and related	24	93 - 173	P 133.3	4.0	81 - 150	P 115.4	2.9	157 - 291	P 224.1	6.1	238 - 443	P 340.7	7.7	26 - 48	P 36.6	2.2	47

Total Population

Whole Population	25	84 - 156	P 120.3	12.5	76 - 142	P 109.0	12.8	139 - 258	P 198.1	24.9	206 - 382	P 293.8	49.2	24 - 44	P 34.2	4.0	308
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Aspartate Aminotransferase (AST or SGOT)

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	130 - 195	P 162.1	3.3	30 - 44	P 37.0	1.0	175 - 263	P 218.8	5.3	232 - 348	P 290.1	5.9	86 - 129	P 107.1	1.8	13
Alfa Wassermann & Alfa Wasser Axel/Alera	2	116 - 174	P 145.3	4.7	21 - 32	P 26.6	3.9	158 - 237	P 197.4	4.7	209 - 313	P 261.1	5.4	80 - 119	P 99.5	2.6	18
Beckman Coulter & Beck Coult Unicel DXC	3	127 - 191	P 159.2	3.3	33 - 50	P 41.6	0.5	172 - 258	P 214.9	3.7	226 - 339	P 282.9	5.3	87 - 131	P 108.8	2.0	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	112 - 168	P 140.0	4.2	26 - 39	P 32.6	1.4	150 - 226	P 188.0	5.5	201 - 301	P 251.0	7.9	74 - 111	P 92.7	2.9	24
Beckman Olympus & Beckman AU 480	5	113 - 170	P 141.8	4.3	26 - 39	P 32.8	1.1	152 - 229	P 190.6	5.7	203 - 304	P 253.5	7.4	75 - 113	P 94.0	3.0	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	131 - 197	P 164.2	3.8	32 - 48	P 40.1	1.2	191 - 287	P 238.9	7.0	281 - 422	P 351.5	12.8	83 - 125	P 103.9	3.1	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	130 - 194	P 162.0	5.3	32 - 48	P 40.0	1.3	188 - 281	P 234.5	6.4	281 - 421	P 351.1	9.1	83 - 125	P 103.9	2.5	21
Roche Cobas & Roche Cobas Integra	8	132 - 198	P 165.0	6.6	28 - 42	P 34.6	1.1	178 - 267	P 222.3	8.7	233 - 350	P 291.6	11.3	88 - 133	P 110.5	4.2	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	133 - 199	P 166.1	4.3	28 - 42	P 35.3	0.8	179 - 268	P 223.2	6.8	238 - 356	P 296.9	10.3	88 - 133	P 110.6	3.2	14
Siemens Dimension & Siemens Dimension EXL	10	128 - 192	P 160.0	4.1	26 - 38	P 31.9	2.0	173 - 259	P 215.9	5.3	233 - 349	P 291.1	6.3	83 - 125	P 104.0	3.2	42
Siemens Dimension & Siemens Dimension Xpand	11	131 - 196	P 163.6	2.7	26 - 39	P 32.7	2.1	177 - 265	P 220.9	3.6	236 - 354	P 295.0	6.9	85 - 127	P 106.2	3.5	13

Initial Grouping by Reagent

Abbott Architect	12	130 - 195	P 162.1	3.3	30 - 44	P 37.0	1.0	175 - 263	P 218.8	5.3	232 - 348	P 290.1	5.9	86 - 129	P 107.1	1.8	13
Alfa Wassermann	13	116 - 174	P 145.3	4.7	21 - 32	P 26.6	3.9	158 - 237	P 197.4	4.7	209 - 313	P 261.1	5.4	80 - 119	P 99.5	2.6	18
Beckman Coulter	14	119 - 178	P 148.6	11.2	29 - 44	P 36.7	4.8	160 - 240	P 200.2	15.5	212 - 318	P 264.6	19.6	80 - 120	P 99.8	9.3	21
Beckman Olympus	15	113 - 169	P 141.1	4.5	26 - 39	P 32.7	1.3	152 - 227	P 189.5	5.8	202 - 303	P 252.6	7.9	75 - 112	P 93.5	3.2	46
Carolina	16	135 - 203	P 169.0	10.6	30 - 46	P 38.1	3.8	184 - 276	P 230.4	18.1	244 - 366	P 305.2	23.0	91 - 136	P 113.5	7.8	11
Ortho Vitros	17	130 - 195	P 162.8	4.8	32 - 48	P 40.0	1.3	189 - 284	P 236.3	6.8	281 - 421	P 350.8	10.7	83 - 124	P 103.7	2.9	47
Roche Cobas	18	132 - 197	P 164.5	5.6	28 - 42	P 34.9	1.1	177 - 265	P 221.2	8.3	234 - 351	P 292.6	11.4	88 - 132	P 109.6	4.0	32
Siemens Dimension	19	129 - 193	P 160.9	4.1	26 - 39	P 32.1	2.0	174 - 261	P 217.4	5.4	234 - 351	P 292.5	6.7	84 - 126	P 104.8	3.3	61

Initial Grouping by Sensitivity or Principle

Other no P5P	20	125 - 187	P 156.2	13.6	26 - 39	P 32.6	6.6	170 - 255	P 212.4	19.6	224 - 336	P 279.7	25.4	84 - 127	P 105.5	8.4	39
Standardized methods	21	119 - 179	P 149.0	12.1	28 - 41	P 34.5	3.3	160 - 240	P 199.7	18.1	211 - 317	P 264.2	23.6	80 - 120	P 99.7	8.1	115

Vitros and related	22	130 - 195	P 162.8	4.8	32 - 48	P 40.0	1.3	189 - 284	P 236.3	6.8	281 - 421	P 350.8	10.7	83 - 124	P 103.7	2.9	47
Roche and related	23	132 - 197	P 164.5	5.6	28 - 42	P 34.9	1.1	177 - 265	P 221.2	8.3	234 - 351	P 292.6	11.4	88 - 132	P 109.6	4.0	32
Siemens and related	24	129 - 194	P 161.5	5.5	26 - 39	P 32.4	2.8	174 - 262	P 218.0	7.1	234 - 351	P 292.9	10.1	84 - 126	P 105.3	4.6	73
Other P5P	25	143 - 214	P 178.6	10.5	34 - 51	P 42.2	6.0	189 - 284	P 236.6	26.8	255 - 383	P 319.2	24.0	97 - 145	P 121.0	6.1	10
Total Population																	
Whole Population	26	126 - 189	P 157.2	12.0	28 - 42	P 34.9	4.5	172 - 257	P 214.4	19.7	232 - 348	P 290.0	34.3	83 - 125	P 103.8	7.7	317

Bicarbonate (Total CO2)

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	11 - 19	C 14.9	1.2	4 - 12	C 8.0	1.3	17 - 26	P 21.3	1.7	24 - 35	P 29.4	2.2	5 - 13	C 9.4	1.4	14
Alfa Wassermann & Alfa Wasser Excel/Alera	2	15 - 23	C 18.6	1.5	7 - 15	C 10.9	1.6	20 - 30	P 25.2	1.9	26 - 39	P 32.5	2.6	8 - 16	C 11.6	1.4	17
Beckman Coulter & Beck Coulter Unicel DXC	3	13 - 21	C 16.6	1.7	7 - 15	C 10.9	1.4	18 - 27	P 22.5	3.1	24 - 37	P 30.6	2.9	7 - 15	C 11.2	1.5	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	14 - 22	C 17.8	1.9	6 - 14	C 10.2	1.8	20 - 29	P 24.5	2.8	27 - 40	P 33.7	3.5	7 - 15	C 10.7	1.6	23
Beckman Olympus & Beckman AU 480	5	14 - 22	C 17.8	1.4	7 - 15	C 10.7	1.2	20 - 29	P 24.4	2.0	27 - 41	P 34.0	2.0	7 - 15	C 10.7	1.4	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	11 - 19	C 15.4	1.3	3 - 11	C 7.4	1.4	17 - 25	P 21.2	2.3	25 - 38	P 31.4	3.0	6 - 14	C 9.5	1.6	18
Ortho Vitros & Ortho Vitros not DT or ECI	7	11 - 19	C 15.3	1.3	4 - 12	C 7.5	1.6	17 - 25	P 20.8	1.8	24 - 35	P 29.4	2.4	5 - 13	C 8.8	1.1	18
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	12 - 20	C 15.5	1.8	5 - 13	C 9.4	2.6	17 - 25	P 20.9	2.0	23 - 34	P 28.7	2.6	6 - 14	C 9.7	0.9	13
Siemens ECO2 & Siemens Dimension EXL	9	16 - 24	C 19.9	1.7	8 - 16	C 12.2	1.8	21 - 31	P 25.9	1.8	28 - 42	P 34.8	2.4	8 - 16	C 12.3	1.1	49
Siemens ECO2 & Siemens Dimension Xpand	10	16 - 24	P 20.1	2.0	9 - 17	C 12.5	1.5	21 - 31	P 26.1	2.1	27 - 41	P 34.0	3.1	8 - 16	C 12.2	1.2	14

Initial Grouping by Reagent

Abbott Architect	11	11 - 19	C 14.9	1.2	4 - 12	C 8.0	1.3	17 - 26	P 21.3	1.7	24 - 35	P 29.4	2.2	5 - 13	C 9.4	1.4	14
Alfa Wassermann	12	15 - 23	C 18.6	1.5	7 - 15	C 10.9	1.6	20 - 30	P 25.2	1.9	26 - 39	P 32.5	2.6	8 - 16	C 11.6	1.4	17
Beckman Coulter	13	14 - 22	C 17.8	2.0	7 - 15	C 10.9	1.4	19 - 29	P 24.0	2.9	26 - 40	P 33.1	3.5	7 - 15	C 11.4	1.3	22
Beckman Olympus	14	14 - 22	C 17.8	1.6	6 - 14	C 10.4	1.5	20 - 29	P 24.4	2.4	27 - 41	P 33.9	2.9	7 - 15	C 10.7	1.4	46
Carolina	15	15 - 23	C 19.1	1.9	9 - 17	C 12.5	1.6	20 - 30	P 24.8	2.9	26 - 39	P 32.9	3.5	9 - 17	C 13.2	1.9	12
Ortho Vitros	16	12 - 20	C 15.5	1.3	4 - 12	C 7.5	1.5	17 - 25	P 21.1	2.0	24 - 37	P 30.5	2.8	5 - 13	C 9.2	1.4	42
Roche Cobas	17	13 - 21	C 16.6	2.2	6 - 14	C 10.3	2.6	18 - 26	P 22.0	2.4	24 - 36	P 29.9	3.0	6 - 14	C 10.4	1.7	28
Sekisui	18	14 - 22	C 17.5	2.7	6 - 14	C 9.8	3.1	19 - 28	P 23.2	3.7	25 - 37	P 31.0	3.2	7 - 15	C 11.1	2.6	14
Siemens ECO2	19	16 - 24	C 19.9	1.7	8 - 16	C 12.3	1.7	21 - 31	P 25.9	1.8	28 - 41	P 34.5	2.5	8 - 16	C 12.2	1.1	69

Initial Grouping by Sensitivity or Principle

UV/kinetic (rate) methods	20	13 - 21	C 16.9	2.1	6 - 14	C 10.3	2.5	18 - 27	P 22.2	2.4	24 - 36	P 30.3	2.9	7 - 15	C 10.5	1.9	34
Diluted ISE results	21	13 - 21	C 16.9	2.3	6 - 14	C 9.9	1.9	19 - 28	P 23.2	2.9	26 - 39	P 32.1	3.6	7 - 15	C 10.7	1.6	41
UV/bichromatic methods	22	14 - 22	C 17.9	1.7	7 - 15	C 10.6	1.5	20 - 29	P 24.4	2.3	27 - 40	P 33.2	3.0	7 - 15	C 11.0	1.4	69
UV/uncorrected methods	23	14 - 22	C 17.9	2.6	7 - 15	C 10.5	2.7	19 - 28	P 23.7	3.3	26 - 38	P 31.9	3.6	8 - 16	C 11.5	2.3	44
Undiluted ISE results	24	12 - 20	C 15.5	1.3	4 - 12	C 7.5	1.5	17 - 25	P 21.1	2.0	24 - 37	P 30.5	2.8	5 - 13	C 9.2	1.4	42
All other methods	25	16 - 24	C 19.9	1.7	8 - 16	C 12.3	1.7	21 - 31	P 25.9	1.8	28 - 41	P 34.5	2.5	8 - 16	C 12.2	1.1	69

Total Population

Whole Population	26	14 - 22	C 17.8	2.4	6 - 14	C 10.4	2.4	19 - 29	P 23.8	2.9	26 - 39	P 32.4	3.4	7 - 15	C 11.0	1.9	301
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Bilirubin, Total

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	1.2 - 2.0	C 1.6	0.05	0.1 - 0.9	C 0.5	0.0	2.2 - 3.3	P 2.74	0.07	3.3 - 5.0	P 4.16	0.1	0 - 0.8	C 0.41	0.03	14
Alfa Wassermann & Alfa Wasser Excel/Alera	2	1.5 - 2.3	C 1.91	0.11	0.2 - 1.0	C 0.63	0.06	2.7 - 4.1	P 3.4	0.17	4.2 - 6.3	P 5.24	0.22	0.1 - 0.9	C 0.52	0.06	18
Beckman Coulter & Beck Coulter Unicel DXC	3	1.4 - 2.2	C 1.84	0.13	0.3 - 1.1	C 0.66	0.14	2.7 - 4.0	P 3.36	0.2	4.1 - 6.2	P 5.16	0.28	0.2 - 1.0	C 0.55	0.19	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	1.3 - 2.1	C 1.67	0.1	0.1 - 0.9	C 0.52	0.05	2.3 - 3.5	P 2.93	0.17	3.6 - 5.4	P 4.49	0.2	0 - 0.8	C 0.44	0.06	23
Beckman Olympus & Beckman AU 480	5	1.3 - 2.1	C 1.67	0.11	0.1 - 0.9	C 0.52	0.04	2.3 - 3.5	P 2.91	0.23	3.6 - 5.4	P 4.52	0.21	0 - 0.8	C 0.44	0.05	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	1.3 - 2.1	C 1.66	0.16	0.2 - 1.0	C 0.58	0.09	2.5 - 3.7	P 3.12	0.24	4.0 - 6.0	P 4.98	0.35	0 - 0.7	C 0.28	0.1	19
Ortho Vitros & Ortho Vitros not DT or ECI	7	1.3 - 2.1	C 1.65	0.12	0.2 - 1.0	C 0.57	0.07	2.4 - 3.7	P 3.05	0.11	3.8 - 5.8	P 4.81	0.23	0 - 0.7	C 0.33	0.09	20
Siemens Dimension & Siemens Dimension EXL	8	1.2 - 2.0	C 1.57	0.06	0 - 0.8	C 0.41	0.03	2.3 - 3.5	P 2.9	0.1	3.6 - 5.5	P 4.56	0.12	0 - 0.8	C 0.38	0.05	46
Siemens Dimension & Siemens Dimension Xpand	9	1.2 - 2.0	C 1.57	0.09	0 - 0.8	C 0.4	0.0	2.3 - 3.5	P 2.89	0.16	3.6 - 5.4	P 4.53	0.27	0 - 0.8	C 0.37	0.06	15

Initial Grouping by Reagent

Abbott Architect	10	1.2 - 2.0	C 1.6	0.05	0.1 - 0.9	C 0.5	0.0	2.2 - 3.3	P 2.74	0.07	3.3 - 5.0	P 4.16	0.1	0 - 0.8	C 0.41	0.03	14
Alfa Wassermann	11	1.5 - 2.3	C 1.91	0.11	0.2 - 1.0	C 0.63	0.06	2.7 - 4.1	P 3.4	0.17	4.2 - 6.3	P 5.24	0.22	0.1 - 0.9	C 0.52	0.06	18
Beckman Coulter	12	1.4 - 2.2	C 1.76	0.13	0.2 - 1.0	C 0.59	0.13	2.5 - 3.8	P 3.18	0.24	3.9 - 5.8	P 4.84	0.38	0.1 - 0.9	C 0.5	0.14	21
Beckman Olympus	13	1.3 - 2.1	C 1.67	0.1	0.1 - 0.9	C 0.52	0.04	2.3 - 3.5	P 2.93	0.19	3.6 - 5.4	P 4.5	0.2	0 - 0.8	C 0.44	0.05	46
Carolina	14	1.3 - 2.1	C 1.72	0.22	0.2 - 1.0	C 0.63	0.13	2.4 - 3.6	P 3.0	0.27	3.8 - 5.6	P 4.7	0.37	0.2 - 1.0	C 0.63	0.17	10
Ortho Vitros	15	1.3 - 2.1	C 1.65	0.14	0.2 - 1.0	C 0.58	0.08	2.5 - 3.7	P 3.08	0.19	3.9 - 5.9	P 4.89	0.3	0 - 0.7	C 0.31	0.09	47
Roche Cobas	16	1.1 - 1.9	C 1.47	0.08	0 - 0.8	C 0.39	0.08	2.1 - 3.2	P 2.68	0.12	3.3 - 5.0	P 4.17	0.19	0 - 0.7	C 0.34	0.05	19
Roche Cobas BLTS	17	1.0 - 1.8	C 1.42	0.07	0 - 0.8	C 0.39	0.03	2.1 - 3.1	P 2.6	0.1	3.3 - 4.9	P 4.1	0.15	0 - 0.8	C 0.35	0.05	13
Siemens Dimension	18	1.2 - 2.0	C 1.57	0.07	0 - 0.8	C 0.4	0.03	2.3 - 3.5	P 2.9	0.12	3.6 - 5.5	P 4.56	0.17	0 - 0.8	C 0.38	0.05	68

Initial Grouping by Sensitivity or Principle

Oxidation	19	1.4 - 2.2	C 1.75	0.16	0.1 - 0.9	C 0.53	0.08	2.5 - 3.7	P 3.11	0.28	3.8 - 5.6	P 4.7	0.32	0.1 - 0.9	C 0.47	0.06	12
Diazonium ion	20	1.2 - 2.0	C 1.64	0.14	0.1 - 0.9	C 0.54	0.09	2.4 - 3.5	P 2.95	0.23	3.7 - 5.5	P 4.59	0.37	0 - 0.8	C 0.4	0.12	126
Diazo/DMSO	21	1.4 - 2.2	C 1.81	0.17	0.2 - 1.0	C 0.59	0.1	2.6 - 3.8	P 3.2	0.31	4.0 - 5.9	P 4.94	0.45	0.1 - 0.9	C 0.47	0.11	29
Diazo/caffeine-benzoate	22	1.2 - 2.0	C 1.61	0.13	0 - 0.9	C 0.45	0.1	2.4 - 3.5	P 2.95	0.21	3.7 - 5.5	P 4.6	0.3	0 - 0.8	C 0.4	0.1	100
Diazo/surfactant	23	1.1 - 1.9	C 1.47	0.11	0 - 0.8	C 0.42	0.07	2.2 - 3.2	P 2.69	0.17	3.4 - 5.1	P 4.23	0.28	0 - 0.7	C 0.34	0.07	40
Total Population																	
Whole Population	24	1.2 - 2.0	C 1.63	0.16	0.1 - 0.9	C 0.5	0.11	2.4 - 3.5	P 2.94	0.26	3.7 - 5.5	P 4.58	0.39	0 - 0.8	C 0.4	0.11	312

Calcium

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	8.0 - 10.0	C 8.95	0.16	7.3 - 9.3	C 8.32	0.18	9.8 - 11.8	C 10.75	0.17	12.1 - 14.1	C 13.08	0.14	6.3 - 8.3	C 7.25	0.12	15
Alfa Wassermann & Alfa Wasser Axel/Alera	2	8.0 - 10.0	C 9.03	0.19	7.3 - 9.3	C 8.3	0.17	9.8 - 11.8	C 10.78	0.21	11.7 - 13.7	C 12.71	0.22	6.6 - 8.6	C 7.56	0.2	18
Beckman Olympus Arsenazo & Beck Olym AU 400/600/5400	3	7.8 - 9.8	C 8.79	0.27	7.2 - 9.2	C 8.23	0.26	9.5 - 11.5	C 10.48	0.29	11.7 - 13.7	C 12.69	0.35	6.1 - 8.1	C 7.06	0.22	23
Beckman Olympus Arsenazo & Beckman AU 480	4	7.9 - 9.9	C 8.93	0.17	7.4 - 9.4	C 8.41	0.17	9.6 - 11.6	C 10.62	0.2	11.8 - 13.8	C 12.8	0.25	6.2 - 8.2	C 7.2	0.18	19
Ortho Vitros & Ortho Vitros 3600, 5600	5	7.9 - 9.9	C 8.91	0.17	7.0 - 9.0	C 7.95	0.21	9.7 - 11.7	C 10.65	0.19	11.7 - 13.7	C 12.67	0.18	6.2 - 8.2	C 7.16	0.15	19
Ortho Vitros & Ortho Vitros not DT or ECI	6	8.0 - 10.0	C 8.96	0.21	7.0 - 9.0	C 7.98	0.15	9.7 - 11.7	C 10.74	0.22	11.9 - 13.9	C 12.91	0.2	6.2 - 8.2	C 7.18	0.13	21
Roche Cobas & Roche Cobas Integra	7	8.2 - 10.2	C 9.19	0.25	7.2 - 9.2	C 8.16	0.23	9.9 - 11.9	C 10.94	0.24	12.2 - 14.2	C 13.18	0.24	6.5 - 8.5	C 7.45	0.16	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	8.2 - 10.2	C 9.18	0.09	7.2 - 9.2	C 8.19	0.11	9.9 - 11.9	C 10.88	0.1	12.2 - 14.2	C 13.17	0.15	6.5 - 8.5	C 7.48	0.08	14
Siemens OCPC & Siemens Dimension EXL	9	7.8 - 9.8	C 8.76	0.18	6.6 - 8.6	C 7.59	0.19	9.4 - 11.4	C 10.41	0.19	11.6 - 13.6	C 12.62	0.29	6.2 - 8.2	C 7.2	0.18	49
Siemens OCPC & Siemens Dimension Xpand	10	7.8 - 9.8	C 8.79	0.24	6.6 - 8.6	C 7.6	0.25	9.5 - 11.5	C 10.54	0.38	11.6 - 13.6	C 12.59	0.38	6.2 - 8.2	C 7.21	0.28	15

Initial Grouping by Reagent

Abbott	11	8.0 - 10.0	C 8.95	0.16	7.3 - 9.3	C 8.32	0.18	9.8 - 11.8	C 10.75	0.17	12.1 - 14.1	C 13.08	0.14	6.3 - 8.3	C 7.25	0.12	15
Alfa Wassermann	12	8.0 - 10.0	C 9.03	0.19	7.3 - 9.3	C 8.3	0.17	9.8 - 11.8	C 10.78	0.21	11.7 - 13.7	C 12.71	0.22	6.6 - 8.6	C 7.56	0.2	18
Beckman Coulter	13	7.9 - 9.9	C 8.85	0.12	7.1 - 9.1	C 8.14	0.27	9.4 - 11.4	C 10.44	0.22	11.6 - 13.6	C 12.59	0.35	6.2 - 8.2	C 7.22	0.13	19
Beckman Olympus Arsenazo	14	7.9 - 9.9	C 8.85	0.24	7.3 - 9.3	C 8.3	0.24	9.5 - 11.5	C 10.54	0.26	11.7 - 13.7	C 12.73	0.31	6.1 - 8.1	C 7.12	0.21	43
Carolina	15	7.9 - 9.9	C 8.93	0.27	7.2 - 9.2	C 8.2	0.37	9.4 - 11.4	C 10.41	0.34	11.3 - 13.3	C 12.34	0.37	6.3 - 8.3	C 7.33	0.41	10
Ortho Vitros	16	7.9 - 9.9	C 8.93	0.19	7.0 - 9.0	C 7.97	0.18	9.7 - 11.7	C 10.69	0.21	11.8 - 13.8	C 12.79	0.23	6.2 - 8.2	C 7.17	0.14	47
Roche Cobas	17	8.1 - 10.1	C 9.12	0.23	7.1 - 9.1	C 8.13	0.21	9.8 - 11.8	C 10.83	0.26	12.1 - 14.1	C 13.1	0.3	6.4 - 8.4	C 7.42	0.17	32
Siemens OCPC	18	7.8 - 9.8	C 8.78	0.2	6.6 - 8.6	C 7.61	0.23	9.5 - 11.5	C 10.45	0.26	11.6 - 13.6	C 12.63	0.32	6.2 - 8.2	C 7.21	0.21	71

Initial Grouping by Sensitivity or Principle

Arsenazo-based	19	7.9 - 9.9	C 8.93	0.25	7.2 - 9.2	C 8.19	0.29	9.6 - 11.6	C 10.6	0.26	11.7 - 13.7	C 12.71	0.34	6.2 - 8.2	C 7.24	0.25	190
OCPC (o-cresolphth complex)	20	7.9 - 9.9	C 8.88	0.26	6.8 - 8.8	C 7.79	0.34	9.6 - 11.6	C 10.58	0.31	11.8 - 13.8	C 12.79	0.38	6.3 - 8.3	C 7.28	0.22	111
Total Population																	
Whole Population	21	7.9 - 9.9	C 8.91	0.25	7.0 - 9.0	C 8.04	0.36	9.6 - 11.6	C 10.59	0.28	11.7 - 13.7	C 12.73	0.36	6.3 - 8.3	C 7.25	0.24	312

Chloride

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	89 - 99	P 94.0	0.0	86 - 95	P 90.6	0.6	97 - 107	P 101.9	0.4	106 - 118	P 112.1	0.7	82 - 91	P 86.5	0.6	15
Alfa Wassermann & Alfa Wasser Axel/Alera	2	90 - 100	P 94.8	1.8	85 - 94	P 89.4	1.1	100 - 110	P 105.1	1.7	115 - 127	P 120.8	2.0	80 - 88	P 84.1	1.5	18
Beckman Coulter & Beck Coult Unicel DXC	3	88 - 98	P 93.0	1.0	85 - 94	P 89.9	0.8	96 - 106	P 101.2	0.9	106 - 117	P 111.2	1.2	82 - 91	P 86.2	1.0	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	88 - 98	P 93.0	1.5	84 - 93	P 88.2	1.2	96 - 106	P 100.9	1.5	106 - 117	P 111.8	1.5	81 - 89	P 85.2	1.4	27
Beckman Olympus & Beckman AU 480	5	88 - 97	P 92.6	1.0	84 - 93	P 88.2	1.1	96 - 106	P 101.0	1.4	106 - 117	P 111.5	1.7	81 - 89	P 84.8	0.7	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	89 - 98	P 93.2	1.0	85 - 94	P 89.7	0.9	97 - 108	P 102.4	1.7	109 - 120	P 114.7	1.8	81 - 90	P 85.5	1.4	19
Ortho Vitros & Ortho Vitros not DT or ECI	7	89 - 98	P 93.2	1.3	85 - 94	P 89.9	0.7	97 - 107	P 102.2	1.2	109 - 121	P 115.1	1.3	82 - 90	P 86.0	1.4	21
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	86 - 95	P 90.0	1.9	82 - 91	P 86.5	4.8	95 - 105	P 99.8	1.2	107 - 118	P 112.4	1.8	77 - 85	P 81.2	2.5	11
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	87 - 96	P 91.5	1.2	78 - 86	P 82.3	0.9	97 - 108	P 102.4	1.1	111 - 122	P 116.5	1.5	77 - 85	P 80.9	0.9	50
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	87 - 96	P 91.4	0.9	78 - 86	P 82.1	1.1	97 - 107	P 102.2	1.0	111 - 122	P 116.5	1.1	77 - 85	P 80.6	1.0	15

Initial Grouping by Reagent

Abbott	11	89 - 99	P 94.0	0.0	86 - 95	P 90.6	0.6	97 - 107	P 101.9	0.4	106 - 118	P 112.1	0.7	82 - 91	P 86.5	0.6	15
Alfa Wassermann	12	90 - 100	P 94.8	1.8	85 - 94	P 89.4	1.1	100 - 110	P 105.1	1.7	115 - 127	P 120.8	2.0	80 - 88	P 84.1	1.5	18
Beckman Coulter	13	88 - 98	P 92.9	1.3	84 - 93	P 88.9	1.4	96 - 106	P 101.3	1.2	106 - 117	P 111.7	1.5	81 - 90	P 85.6	1.3	23
Beckman Olympus	14	88 - 97	P 92.8	1.3	84 - 93	P 88.2	1.1	96 - 106	P 100.9	1.4	106 - 117	P 111.6	1.6	81 - 89	P 85.0	1.2	50
Ortho Vitros	15	89 - 98	P 93.2	1.1	85 - 94	P 89.8	0.9	97 - 107	P 102.3	1.4	109 - 121	P 114.9	1.5	81 - 90	P 85.7	1.3	47
Roche Cobas dil ISE	16	87 - 96	P 91.1	3.3	81 - 90	P 85.3	3.6	96 - 106	P 101.3	3.1	109 - 120	P 114.4	4.1	78 - 86	P 82.3	3.2	26
Siemens QuickLYTE IMT	17	87 - 96	P 91.4	1.2	78 - 86	P 82.2	1.0	97 - 107	P 102.3	1.2	111 - 122	P 116.5	1.8	77 - 85	P 80.8	1.0	71

Initial Grouping by Sensitivity or Principle

Undiluted ISE	18	89 - 98	P 93.4	2.1	85 - 93	P 89.0	2.4	98 - 108	P 103.0	2.5	110 - 122	P 116.3	3.4	81 - 89	P 84.8	2.1	83
Colorimetric	19	89 - 98	P 93.8	3.5	85 - 94	P 89.9	4.8	97 - 108	P 102.6	3.7	109 - 121	P 115.2	5.9	81 - 89	P 85.1	3.7	11
Diluted ISE	20	88 - 97	P 92.2	2.0	82 - 90	P 86.0	3.7	97 - 107	P 101.7	1.9	108 - 120	P 114.0	3.4	79 - 87	P 83.3	2.7	202

All Medica Synermed	21	89 - 98	P 93.7	2.4	85 - 94	P 89.9	2.7	99 - 110	P 104.6	3.2	112 - 124	P 118.4	4.9	80 - 88	P 83.7	2.0	10
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Total Population																	
Whole Population	22	88 - 97	P 92.6	2.2	83 - 91	P 87.0	3.7	97 - 107	P 102.2	2.4	109 - 121	P 114.8	3.8	80 - 88	P 83.8	2.7	308

Cholesterol, Total

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	97 - 118	P 107.5	0.8	238 - 290	P 263.9	1.9	139 - 170	P 154.2	1.2	194 - 237	P 215.7	1.7	55 - 67	P 60.9	0.7	14
Alfa Wassermann & Alfa Wasser Excel/Alera	2	99 - 121	P 110.1	4.1	236 - 288	P 262.0	7.7	141 - 172	P 156.5	4.7	194 - 237	P 215.9	6.5	57 - 70	P 63.3	2.1	14
Beckman Olympus & Beck Olym AU 400/600/5400	3	93 - 113	P 103.0	1.9	228 - 278	P 253.1	5.5	134 - 163	P 148.4	2.8	188 - 230	P 209.0	4.4	51 - 63	P 57.2	1.4	21
Beckman Olympus & Beckman AU 480	4	95 - 116	P 105.4	3.3	231 - 283	P 257.2	7.3	137 - 167	P 152.1	4.2	192 - 235	P 213.2	5.8	53 - 64	P 58.5	2.1	17
Ortho Vitros & Ortho Vitros 3600, 5600	5	90 - 110	P 100.4	2.6	264 - 322	P 293.1	7.5	138 - 169	P 153.2	4.5	199 - 244	P 221.4	6.0	45 - 55	P 49.7	2.0	18
Ortho Vitros & Ortho Vitros not DT or ECi	6	92 - 112	P 102.1	3.7	254 - 311	P 282.3	11.1	137 - 167	P 152.1	5.0	195 - 238	P 216.3	6.9	42 - 51	P 46.4	2.7	20
Roche Cobas & Roche Cobas Integra	7	95 - 116	P 105.5	2.4	231 - 282	P 256.5	5.7	137 - 168	P 152.5	3.5	192 - 235	P 213.3	5.6	53 - 65	P 59.4	1.4	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	95 - 116	P 105.7	3.1	228 - 279	P 253.8	7.1	137 - 167	P 152.1	4.5	191 - 233	P 211.8	4.8	54 - 66	P 59.7	2.1	14
Siemens Dimension & Siemens Dimension EXL	9	92 - 113	P 102.3	2.9	232 - 283	P 257.6	6.2	134 - 164	P 148.8	3.7	188 - 230	P 209.1	4.3	51 - 62	P 56.7	2.9	48
Siemens Dimension & Siemens Dimension Xpand	10	93 - 114	P 103.3	4.0	233 - 285	P 258.8	7.5	135 - 164	P 149.5	4.5	189 - 231	P 210.0	5.6	52 - 63	P 57.5	3.6	16

Initial Grouping by Reagent																	
Abbott	11	97 - 118	P 107.5	0.8	238 - 290	P 263.9	1.9	139 - 170	P 154.2	1.2	194 - 237	P 215.7	1.7	55 - 67	P 60.9	0.7	14
Alfa Wassermann	12	99 - 121	P 110.1	4.1	236 - 288	P 262.0	7.7	141 - 172	P 156.5	4.7	194 - 237	P 215.9	6.5	57 - 70	P 63.3	2.1	14
Beckman Coulter	13	95 - 116	P 105.4	3.6	232 - 283	P 257.5	10.2	138 - 168	P 153.1	6.7	194 - 237	P 215.7	8.2	52 - 63	P 57.6	2.6	18
Beckman Olympus	14	94 - 114	P 103.9	3.0	229 - 280	P 254.5	6.9	135 - 165	P 149.8	4.1	189 - 232	P 210.5	5.6	52 - 64	P 57.8	1.8	40
Carolina	15	99 - 121	P 110.3	5.2	239 - 293	P 266.1	10.0	143 - 175	P 158.7	4.6	202 - 247	P 224.3	5.8	55 - 67	P 61.0	3.5	11
Ortho Vitros	16	91 - 112	P 101.5	3.4	258 - 315	P 286.8	10.7	137 - 168	P 152.7	4.7	197 - 241	P 218.9	6.8	43 - 53	P 48.2	3.4	43
Pointe Scientific	17	100 - 122	P 110.9	3.5	238 - 291	P 264.6	8.4	142 - 173	P 157.4	4.7	200 - 244	P 221.8	5.0	55 - 67	P 61.3	2.3	14
Roche Cobas	18	95 - 116	P 105.9	3.3	229 - 280	P 254.7	6.6	137 - 168	P 152.5	4.3	192 - 234	P 212.9	5.6	54 - 66	P 60.0	2.8	34
Siemens Dimension	19	93 - 113	P 102.8	3.3	232 - 284	P 258.1	6.8	134 - 164	P 149.1	4.0	189 - 231	P 209.7	5.0	51 - 63	P 57.0	3.1	70
Stering Diagnostic	20	94 - 115	P 104.6	5.3	227 - 278	P 252.6	4.8	135 - 165	P 149.6	5.1	187 - 229	P 208.3	5.7	55 - 67	P 60.8	3.9	14

Initial Grouping by Sensitivity or Principle																	
All enzymatic cholesterol	21	94 - 116	P 105.0	4.7	236 - 288	P 262.1	13.6	137 - 168	P 152.3	5.8	193 - 235	P 214.0	7.8	52 - 63	P 57.5	5.2	307
Total Population																	
Whole Population	22	94 - 116	P 105.0	4.7	236 - 288	P 262.1	13.6	137 - 168	P 152.3	5.8	193 - 235	P 214.0	7.8	52 - 63	P 57.5	5.2	307

Creatinine

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	1.5 - 2.1	C 1.82	0.04	0.5 - 1.1	C 0.81	0.03	2.8 - 3.8	P 3.31	0.04	4.4 - 6.0	P 5.23	0.06	0.2 - 0.8	C 0.5	0.0	15
Alfa Wassermann & Alfa Wasser Excel/Alera	2	1.6 - 2.2	C 1.91	0.07	0.4 - 1.0	C 0.69	0.05	2.7 - 3.6	P 3.15	0.09	4.0 - 5.4	P 4.69	0.15	0.4 - 1.0	C 0.67	0.06	20
Beckman Olympus & Beck Olym AU 400/600/5400	3	1.5 - 2.1	C 1.81	0.07	0.4 - 1.0	C 0.68	0.05	2.6 - 3.6	P 3.11	0.08	4.0 - 5.4	P 4.73	0.14	0.2 - 0.8	C 0.49	0.05	25
Beckman Olympus & Beckman AU 480	4	1.5 - 2.1	C 1.83	0.07	0.4 - 1.0	C 0.69	0.03	2.7 - 3.6	P 3.12	0.09	4.1 - 5.5	P 4.81	0.11	0.2 - 0.8	C 0.48	0.04	21
Ortho Vitros 1-slide enz & Ortho Vitros 3600, 5600	5	1.6 - 2.2	C 1.86	0.05	0.4 - 1.0	C 0.71	0.05	2.7 - 3.6	P 3.16	0.08	4.0 - 5.4	P 4.7	0.08	0.2 - 0.8	C 0.52	0.04	12
Roche Cobas & Roche Cobas Integra	6	1.5 - 2.1	C 1.82	0.08	0.4 - 1.0	C 0.65	0.07	2.6 - 3.5	P 3.0	0.13	3.7 - 5.0	P 4.36	0.26	0.2 - 0.8	C 0.5	0.04	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	7	1.5 - 2.1	C 1.82	0.07	0.3 - 0.9	C 0.62	0.1	2.7 - 3.6	P 3.12	0.14	3.9 - 5.3	P 4.62	0.22	0.1 - 0.7	C 0.44	0.07	14
Siemens Dimension & Siemens Dimension EXL	8	1.5 - 2.1	C 1.83	0.08	0.4 - 1.0	C 0.65	0.06	2.7 - 3.7	P 3.21	0.08	4.2 - 5.7	P 4.98	0.09	0.2 - 0.8	C 0.46	0.06	37
Siemens Dimension & Siemens Dimension Xpand	9	1.5 - 2.1	C 1.79	0.07	0.3 - 0.9	C 0.63	0.05	2.7 - 3.6	P 3.16	0.09	4.1 - 5.6	P 4.86	0.13	0.1 - 0.7	C 0.43	0.05	10

Initial Grouping by Reagent																	
Abbott Architect	10	1.5 - 2.1	C 1.82	0.04	0.5 - 1.1	C 0.81	0.03	2.8 - 3.8	P 3.31	0.04	4.4 - 6.0	P 5.23	0.06	0.2 - 0.8	C 0.5	0.0	15
Alfa Wassermann	11	1.6 - 2.2	C 1.91	0.07	0.4 - 1.0	C 0.69	0.05	2.7 - 3.6	P 3.15	0.09	4.0 - 5.4	P 4.69	0.15	0.4 - 1.0	C 0.67	0.06	20
Beckman Coulter	12	1.5 - 2.1	C 1.83	0.06	0.4 - 1.0	C 0.67	0.04	2.7 - 3.6	P 3.12	0.08	4.0 - 5.5	P 4.76	0.16	0.2 - 0.8	C 0.48	0.04	18
Beckman Olympus	13	1.5 - 2.1	C 1.82	0.07	0.4 - 1.0	C 0.68	0.05	2.6 - 3.6	P 3.11	0.08	4.1 - 5.5	P 4.77	0.13	0.2 - 0.8	C 0.48	0.05	48
Carolina	14	1.6 - 2.2	C 1.87	0.11	0.6 - 1.2	C 0.85	0.21	2.7 - 3.6	P 3.15	0.17	4.0 - 5.5	P 4.74	0.24	0.4 - 1.0	C 0.65	0.1	11
Ortho Vitros 1-slide enz	15	1.5 - 2.1	C 1.84	0.06	0.4 - 1.0	C 0.7	0.04	2.7 - 3.6	P 3.15	0.09	4.0 - 5.4	P 4.67	0.09	0.2 - 0.8	C 0.51	0.04	25
Ortho Vitros IDMS traceable	16	1.6 - 2.2	C 1.85	0.07	0.4 - 1.0	C 0.7	0.04	2.7 - 3.6	P 3.17	0.1	4.0 - 5.4	P 4.68	0.16	0.2 - 0.8	C 0.5	0.04	21
Roche Cobas	17	1.5 - 2.1	C 1.81	0.08	0.3 - 0.9	C 0.64	0.09	2.6 - 3.5	P 3.05	0.15	3.8 - 5.2	P 4.5	0.25	0.2 - 0.8	C 0.46	0.07	31
Siemens Dimension	18	1.5 - 2.1	C 1.82	0.07	0.4 - 1.0	C 0.65	0.06	2.7 - 3.7	P 3.2	0.08	4.2 - 5.7	P 4.96	0.11	0.2 - 0.8	C 0.46	0.06	50
Synermed	19	1.6 - 2.2	C 1.86	0.14	0.3 - 0.9	C 0.55	0.16	2.5 - 3.4	P 2.92	0.22	3.6 - 4.9	P 4.28	0.23	0.4 - 1.0	C 0.65	0.11	10

Initial Grouping by Sensitivity or Principle																	
Enzymatic methods	20	1.5 - 2.1	C 1.83	0.08	0.4 - 1.0	C 0.67	0.06	2.7 - 3.7	P 3.18	0.09	4.1 - 5.6	P 4.85	0.18	0.2 - 0.8	C 0.48	0.07	79
Nonenzymatic rate	21	1.5 - 2.1	C 1.83	0.09	0.4 - 1.0	C 0.68	0.12	2.7 - 3.6	P 3.12	0.15	4.0 - 5.4	P 4.73	0.28	0.2 - 0.8	C 0.53	0.1	193
IDMS traceable	22	1.6 - 2.2	C 1.86	0.09	0.3 - 0.9	C 0.64	0.13	2.7 - 3.6	P 3.17	0.14	4.0 - 5.5	P 4.74	0.24	0.2 - 0.8	C 0.53	0.07	45
Total Population																	
Whole Population	23	1.5 - 2.1	C 1.83	0.09	0.4 - 1.0	C 0.67	0.11	2.7 - 3.6	P 3.13	0.14	4.0 - 5.5	P 4.75	0.27	0.2 - 0.8	C 0.52	0.09	325

Glucose

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	95 - 116	P 105.9	1.6	51 - 63	C 56.9	1.1	144 - 176	P 159.7	3.6	210 - 257	P 233.7	5.8	45 - 57	C 50.5	1.1	15
Alfa Wassermann & Alfa Wasser Axel/Alera	2	103 - 125	P 114.0	3.2	59 - 72	P 65.7	1.6	154 - 188	P 170.9	4.9	220 - 269	P 244.9	5.8	51 - 63	C 57.1	1.6	18
Beckman Olympus & Beck Olym AU 400/600/5400	3	100 - 122	P 111.0	2.5	52 - 64	C 58.0	1.5	151 - 184	P 167.5	3.9	218 - 266	P 241.8	6.1	48 - 60	C 53.5	1.9	24
Beckman Olympus & Beckman AU 480	4	101 - 123	P 111.9	2.4	52 - 64	C 58.3	1.2	151 - 185	P 168.3	3.4	219 - 267	P 243.1	4.9	48 - 60	C 54.1	1.4	23
Ortho Vitros & Ortho Vitros 3600, 5600	5	93 - 114	P 103.3	2.6	58 - 71	P 64.8	2.0	144 - 176	P 159.8	5.3	218 - 267	P 242.7	8.1	42 - 54	C 47.6	1.8	19
Ortho Vitros & Ortho Vitros not DT or ECi	6	94 - 115	P 104.1	2.7	58 - 71	P 64.9	1.7	143 - 175	P 159.0	3.5	217 - 265	P 240.8	4.6	42 - 54	C 48.1	1.4	21
Roche Cobas & Roche Cobas Integra	7	101 - 124	P 112.5	3.5	54 - 66	C 59.6	1.7	153 - 187	P 170.3	4.7	220 - 269	P 244.1	6.4	48 - 60	C 54.3	1.8	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	99 - 121	P 110.3	1.7	53 - 65	C 59.3	1.3	150 - 183	P 166.7	2.4	219 - 268	P 243.4	3.9	47 - 59	C 53.1	1.0	14
Siemens HK & Siemens Dimension EXL	9	100 - 122	P 111.2	2.2	60 - 74	P 67.0	1.8	151 - 184	P 167.3	2.2	218 - 266	P 242.1	4.7	49 - 61	C 54.5	1.4	22
Siemens HK, GLUC & Siemens Dimension EXL	10	99 - 121	P 110.2	2.3	60 - 73	P 66.6	1.5	150 - 183	P 166.6	3.3	218 - 266	P 241.9	5.3	48 - 60	C 53.9	1.4	28

Initial Grouping by Reagent

Abbott	11	95 - 116	P 105.9	1.6	51 - 63	C 56.9	1.1	144 - 176	P 159.7	3.6	210 - 257	P 233.7	5.8	45 - 57	C 50.5	1.1	15
Alfa Wassermann	12	103 - 125	P 114.0	3.2	59 - 72	P 65.7	1.6	154 - 188	P 170.9	4.9	220 - 269	P 244.9	5.8	51 - 63	C 57.1	1.6	18
Beckman HK	13	99 - 121	P 110.4	4.5	53 - 65	C 59.0	2.0	152 - 185	P 168.6	5.9	220 - 268	P 244.0	5.7	48 - 60	C 53.7	2.1	14
Beckman Olympus	14	100 - 123	P 111.4	2.5	52 - 64	C 58.1	1.4	151 - 184	P 167.6	3.9	218 - 266	P 242.2	5.6	48 - 60	C 53.8	1.7	49
Ortho Vitros	15	94 - 114	P 103.9	2.5	59 - 71	P 65.0	1.7	144 - 176	P 159.7	4.3	218 - 266	P 242.2	6.3	42 - 54	C 47.9	1.6	47
Roche Cobas	16	99 - 122	P 110.5	3.4	53 - 65	C 59.1	1.7	151 - 184	P 167.3	4.6	218 - 267	P 242.6	6.3	47 - 59	C 53.3	1.6	32
Siemens HK	17	100 - 122	P 110.6	2.5	60 - 73	P 66.2	2.9	150 - 183	P 166.8	3.3	217 - 265	P 241.1	4.9	48 - 60	C 54.1	1.6	37
Siemens HK, GLUC	18	99 - 121	P 110.4	2.4	60 - 74	P 67.1	1.9	150 - 183	P 166.7	3.6	218 - 266	P 242.0	5.3	48 - 60	C 54.3	1.7	37
Sterling Diagnostic	19	99 - 121	P 110.3	2.9	56 - 68	P 61.8	2.0	149 - 182	P 165.6	3.0	216 - 264	P 240.2	7.1	50 - 62	C 55.7	2.4	12

Initial Grouping by Sensitivity or Principle

HexoKinase (HK)	20	99 - 121	P 110.4	3.4	56 - 68	P 61.9	4.7	150 - 183	P 166.6	4.8	217 - 266	P 241.4	6.5	48 - 60	C 53.7	2.2	225
HexoKinase Alfa Wasserman and related	21	103 - 125	P 114.0	3.2	59 - 72	P 65.7	1.6	154 - 188	P 170.9	4.9	220 - 269	P 244.9	5.8	51 - 63	C 57.1	1.6	18
Glucose Oxidase (GO)	22	95 - 116	P 105.9	4.3	57 - 70	P 63.4	3.0	146 - 178	P 161.7	5.6	217 - 266	P 241.6	6.3	44 - 56	C 50.1	3.7	72

Total Population

Whole Population	23	99 - 120	P 109.5	4.2	56 - 69	P 62.4	4.3	149 - 182	P 165.7	5.5	217 - 266	P 241.6	6.5	47 - 59	C 53.1	3.1	324
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Phosphorus

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	2.1 - 2.9	C 2.48	0.07	1.1 - 1.9	C 1.53	0.08	3.0 - 4.0	P 3.5	0.12	4.1 - 5.5	P 4.81	0.09	1.1 - 1.9	C 1.48	0.09	12
Beckman Olympus no blank & Beck Olym AU 400/600/5400	2	2.0 - 2.8	C 2.43	0.1	1.1 - 1.9	C 1.51	0.06	2.9 - 3.9	P 3.39	0.14	4.0 - 5.4	P 4.69	0.16	1.0 - 1.8	C 1.42	0.08	12
Beckman Olympus no blank & Beckman AU 480	3	2.1 - 2.9	C 2.48	0.11	1.1 - 1.9	C 1.53	0.06	2.9 - 4.0	P 3.47	0.13	4.1 - 5.6	P 4.87	0.19	1.0 - 1.9	C 1.45	0.07	11
Ortho Vitros & Ortho Vitros 3600, 5600	4	2.3 - 3.1	P 2.72	0.08	1.7 - 2.4	C 2.05	0.1	3.2 - 4.3	P 3.73	0.12	4.5 - 6.1	P 5.27	0.21	1.3 - 2.1	C 1.68	0.1	13
Ortho Vitros & Ortho Vitros not DT or ECi	5	2.3 - 3.1	C 2.65	0.11	1.5 - 2.3	C 1.93	0.11	3.1 - 4.2	P 3.63	0.13	4.3 - 5.8	P 5.07	0.17	1.3 - 2.1	C 1.65	0.1	16
Roche Cobas & Roche e/c, 1XX, X000, Elec series	6	2.1 - 2.9	C 2.48	0.04	1.1 - 1.9	C 1.53	0.05	3.0 - 4.0	P 3.49	0.08	4.1 - 5.6	P 4.85	0.09	1.0 - 1.9	C 1.45	0.07	10
Siemens Dimension & Siemens Dimension EXL	7	2.2 - 3.0	C 2.62	0.09	1.4 - 2.2	C 1.78	0.07	3.1 - 4.2	P 3.65	0.09	4.3 - 5.8	P 5.03	0.1	1.1 - 1.9	C 1.53	0.08	46

Initial Grouping by Reagent

Abbott Architect	8	2.1 - 2.9	C 2.48	0.07	1.1 - 1.9	C 1.53	0.08	3.0 - 4.0	P 3.5	0.12	4.1 - 5.5	P 4.81	0.09	1.1 - 1.9	C 1.48	0.09	12
Beckman Olympus blanked	9	2.1 - 2.9	C 2.45	0.08	1.2 - 2.0	C 1.55	0.08	2.9 - 4.0	P 3.45	0.1	4.1 - 5.5	P 4.79	0.13	1.0 - 1.9	C 1.45	0.07	19
Beckman Olympus no blank	10	2.1 - 2.9	C 2.45	0.11	1.1 - 1.9	C 1.52	0.06	2.9 - 3.9	P 3.43	0.14	4.1 - 5.5	P 4.77	0.19	1.0 - 1.8	C 1.43	0.07	24
Ortho Vitros	11	2.3 - 3.1	P 2.69	0.1	1.6 - 2.4	C 1.99	0.12	3.1 - 4.2	P 3.68	0.14	4.4 - 5.9	P 5.17	0.21	1.3 - 2.1	C 1.67	0.1	32
Roche Cobas	12	2.1 - 2.9	C 2.49	0.06	1.2 - 2.0	C 1.55	0.09	3.0 - 4.0	P 3.51	0.13	4.1 - 5.6	P 4.87	0.16	1.1 - 1.9	C 1.46	0.07	19
Siemens Dimension	13	2.2 - 3.0	C 2.61	0.09	1.4 - 2.2	C 1.77	0.09	3.1 - 4.2	P 3.65	0.08	4.3 - 5.8	P 5.03	0.1	1.1 - 1.9	C 1.53	0.08	61

Initial Grouping by Sensitivity or Principle

UV-bichromatic-sam blanked	14	2.2 - 2.9	C 2.55	0.11	1.3 - 2.1	C 1.69	0.16	3.0 - 4.1	P 3.58	0.14	4.2 - 5.7	P 4.94	0.18	1.1 - 1.9	C 1.5	0.09	120
UV-bichromatic-no sam blks	15	2.0 - 2.8	C 2.44	0.12	1.1 - 1.9	C 1.52	0.08	2.9 - 3.9	P 3.42	0.13	4.0 - 5.4	P 4.73	0.2	1.0 - 1.9	C 1.45	0.1	32
UV-rate	16	2.2 - 3.0	C 2.57	0.08	1.3 - 2.1	C 1.7	0.19	3.1 - 4.2	P 3.66	0.19	4.2 - 5.7	P 4.97	0.18	1.1 - 1.9	C 1.49	0.08	10
UV-uncorrected	17	2.1 - 2.9	C 2.54	0.18	1.1 - 1.9	C 1.49	0.15	3.0 - 4.1	P 3.57	0.23	4.2 - 5.7	P 4.98	0.29	1.2 - 2.0	C 1.55	0.14	11
Visible	18	2.3 - 3.1	P 2.7	0.11	1.6 - 2.4	C 1.99	0.14	3.1 - 4.2	P 3.68	0.14	4.4 - 6.0	P 5.19	0.23	1.3 - 2.1	C 1.67	0.1	33

Total Population

Whole Population	19	2.2 - 3.0	C 2.56	0.14	1.3 - 2.1	C 1.7	0.21	3.0 - 4.1	P 3.57	0.17	4.2 - 5.7	P 4.95	0.24	1.1 - 1.9	C 1.52	0.12	213
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Potassium

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	3.5 - 4.5	C 3.98	0.04	2.2 - 3.2	C 2.67	0.05	4.9 - 5.9	C 5.36	0.06	6.7 - 7.7	C 7.21	0.05	2.1 - 3.1	C 2.59	0.03	15
Alfa Wassermann & Alfa Wasser Axel/Alera	2	3.5 - 4.5	C 3.99	0.07	2.2 - 3.2	C 2.74	0.08	4.9 - 5.9	C 5.44	0.11	7.1 - 8.1	C 7.64	0.2	2.1 - 3.1	C 2.57	0.07	18
Beckman Coulter & Beck Coulter Unicel DXC	3	3.3 - 4.3	C 3.84	0.07	2.0 - 3.0	C 2.5	0.0	4.7 - 5.7	C 5.24	0.05	6.7 - 7.7	C 7.15	0.08	2.0 - 3.0	C 2.48	0.04	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	3.4 - 4.4	C 3.89	0.06	2.1 - 3.1	C 2.61	0.07	4.7 - 5.7	C 5.23	0.09	6.5 - 7.5	C 7.02	0.11	2.1 - 3.1	C 2.62	0.07	27

Beckman Olympus & Beckman AU 480	5	3.4 - 4.4	C 3.88	0.04	2.1 - 3.1	C 2.6	0.0	4.7 - 5.7	C 5.22	0.05	6.5 - 7.5	C 7.03	0.07	2.1 - 3.1	C 2.62	0.04	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	3.7 - 4.7	C 4.16	0.05	2.4 - 3.4	C 2.89	0.05	5.2 - 6.2	C 5.65	0.09	7.2 - 8.2	C 7.67	0.11	2.2 - 3.2	C 2.69	0.05	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	3.6 - 4.6	C 4.12	0.08	2.4 - 3.4	C 2.86	0.06	5.1 - 6.1	C 5.6	0.11	7.1 - 8.1	C 7.63	0.17	2.2 - 3.2	C 2.69	0.05	21
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	3.5 - 4.5	C 4.0	0.07	2.2 - 3.2	C 2.67	0.08	4.9 - 5.9	C 5.43	0.08	6.8 - 7.8	C 7.28	0.08	2.1 - 3.1	C 2.63	0.07	11
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	3.4 - 4.4	C 3.94	0.06	2.0 - 3.0	C 2.53	0.05	4.8 - 5.8	C 5.33	0.06	6.7 - 7.7	C 7.2	0.09	2.0 - 3.0	C 2.52	0.04	50
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	3.4 - 4.4	C 3.93	0.04	2.0 - 3.0	C 2.51	0.03	4.8 - 5.8	C 5.32	0.04	6.7 - 7.7	C 7.19	0.05	2.0 - 3.0	C 2.51	0.03	15
Initial Grouping by Reagent																	
Abbott Architect	11	3.5 - 4.5	C 3.98	0.04	2.2 - 3.2	C 2.67	0.05	4.9 - 5.9	C 5.36	0.06	6.7 - 7.7	C 7.21	0.05	2.1 - 3.1	C 2.59	0.03	15
Alfa Wassermann	12	3.5 - 4.5	C 3.99	0.07	2.2 - 3.2	C 2.74	0.08	4.9 - 5.9	C 5.44	0.11	7.1 - 8.1	C 7.64	0.2	2.1 - 3.1	C 2.57	0.07	18
Beckman Coulter	13	3.4 - 4.4	C 3.87	0.08	2.1 - 3.1	C 2.56	0.07	4.8 - 5.8	C 5.25	0.07	6.6 - 7.6	C 7.09	0.11	2.1 - 3.1	C 2.55	0.08	23
Beckman Olympus	14	3.4 - 4.4	C 3.89	0.05	2.1 - 3.1	C 2.61	0.05	4.7 - 5.7	C 5.23	0.07	6.5 - 7.5	C 7.02	0.09	2.1 - 3.1	C 2.61	0.06	50
Ortho Vitros	15	3.6 - 4.6	C 4.14	0.07	2.4 - 3.4	C 2.88	0.06	5.1 - 6.1	C 5.63	0.11	7.2 - 8.2	C 7.66	0.14	2.2 - 3.2	C 2.69	0.05	47
Roche Cobas dil ISE	16	3.5 - 4.5	C 3.98	0.09	2.2 - 3.2	C 2.65	0.07	4.9 - 5.9	C 5.4	0.08	6.8 - 7.8	C 7.25	0.1	2.1 - 3.1	C 2.62	0.08	26
Siemens QuickLYTE IMT	17	3.4 - 4.4	C 3.94	0.06	2.0 - 3.0	C 2.53	0.05	4.8 - 5.8	C 5.32	0.05	6.7 - 7.7	C 7.19	0.08	2.0 - 3.0	C 2.52	0.04	71
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE results	18	3.5 - 4.5	C 4.01	0.11	2.2 - 3.2	C 2.69	0.17	4.9 - 5.9	C 5.42	0.17	6.9 - 7.9	C 7.37	0.29	2.1 - 3.1	C 2.6	0.1	164
Diluted ISE results	19	3.4 - 4.4	C 3.92	0.08	2.1 - 3.1	C 2.62	0.08	4.8 - 5.8	C 5.29	0.11	6.6 - 7.6	C 7.11	0.16	2.1 - 3.1	C 2.6	0.08	134
Total Population																	
Whole Population	20	3.5 - 4.5	C 3.96	0.11	2.2 - 3.2	C 2.66	0.14	4.9 - 5.9	C 5.36	0.16	6.8 - 7.8	C 7.25	0.27	2.1 - 3.1	C 2.6	0.09	308

Sodium

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	123 - 131	C 127.3	0.5	123 - 131	C 127.2	0.7	137 - 145	C 141.3	0.9	156 - 164	C 159.9	1.2	109 - 117	C 113.2	0.7	15
Alfa Wassermann & Alfa Wasser Excel/Alera	2	122 - 130	C 126.4	1.5	128 - 136	C 131.8	1.1	139 - 147	C 142.8	1.7	163 - 171	C 167.2	2.5	106 - 114	C 110.0	1.5	16
Beckman Coulter & Beck Coult Unical DXC	3	121 - 129	C 125.4	1.4	121 - 129	C 124.9	1.0	136 - 144	C 139.8	1.5	155 - 163	C 158.9	2.1	108 - 116	C 112.1	1.4	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	121 - 129	C 125.1	2.1	121 - 129	C 124.6	2.0	135 - 143	C 139.0	2.3	153 - 161	C 156.9	2.0	109 - 117	C 112.6	2.0	28
Beckman Olympus & Beckman AU 480	5	122 - 130	C 125.7	1.5	121 - 129	C 124.8	1.4	135 - 143	C 139.4	1.8	153 - 161	C 157.3	2.2	109 - 117	C 113.0	2.0	21
Ortho Vitros & Ortho Vitros 3600, 5600	6	129 - 137	C 133.3	1.7	135 - 143	C 138.8	2.1	145 - 153	C 148.9	1.9	166 - 174	C 169.9	2.3	114 - 122	C 118.4	1.5	19
Ortho Vitros & Ortho Vitros not DT or ECi	7	129 - 137	C 133.4	1.8	135 - 143	C 138.6	2.0	145 - 153	C 149.0	2.1	166 - 174	C 169.6	2.5	115 - 123	C 119.0	2.1	21
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	8	124 - 132	C 127.9	1.4	124 - 132	C 128.4	1.4	138 - 146	C 142.3	1.2	158 - 166	C 162.2	2.1	110 - 118	C 114.3	1.8	11
Siemens QuickLYTE IMT & Siemens Dimension EXL	9	125 - 133	C 128.6	1.6	123 - 131	C 127.2	1.2	138 - 146	C 141.9	1.3	156 - 164	C 159.5	1.6	111 - 119	C 115.4	1.4	48
Siemens QuickLYTE IMT & Siemens Dimension Xpand	10	125 - 133	C 128.5	1.0	123 - 131	C 126.6	1.0	138 - 146	C 141.7	1.5	155 - 163	C 159.1	1.4	111 - 119	C 115.2	0.5	15

Initial Grouping by Reagent

Abbott Architect	11	123 - 131	C 127.3	0.5	123 - 131	C 127.2	0.7	137 - 145	C 141.3	0.9	156 - 164	C 159.9	1.2	109 - 117	C 113.2	0.7	15
Alfa Wassermann	12	122 - 130	C 126.4	1.5	128 - 136	C 131.8	1.1	139 - 147	C 142.8	1.7	163 - 171	C 167.2	2.5	106 - 114	C 110.0	1.5	16
Beckman Coulter	13	121 - 129	C 125.3	1.8	120 - 128	C 124.4	1.7	136 - 144	C 139.8	1.5	154 - 162	C 158.4	2.0	108 - 116	C 112.0	1.7	23
Beckman Olympus	14	121 - 129	C 125.3	1.9	121 - 129	C 124.7	1.8	135 - 143	C 139.2	2.1	153 - 161	C 157.0	2.1	109 - 117	C 112.7	2.0	51
Ortho Vitros	15	129 - 137	C 133.2	1.7	135 - 143	C 138.7	2.0	145 - 153	C 149.0	1.9	166 - 174	C 169.8	2.3	115 - 123	C 118.7	1.8	47
Roche Cobas dil ISE	16	123 - 131	C 127.4	1.3	124 - 132	C 127.5	1.4	138 - 146	C 141.6	1.2	157 - 165	C 160.8	2.1	110 - 118	C 113.5	1.5	26
Siemens QuickLYTE IMT	17	125 - 133	C 128.5	1.6	123 - 131	C 126.9	1.2	138 - 146	C 141.7	1.4	155 - 163	C 159.2	1.7	111 - 119	C 115.3	1.2	71

Initial Grouping by Sensitivity or Principle

Undiluted ISE	18	125 - 133	C 129.4	3.1	128 - 136	C 131.5	5.4	140 - 148	C 144.1	3.6	160 - 168	C 163.8	5.2	111 - 119	C 115.3	3.2	157
Diluted ISE	19	122 - 130	C 126.2	1.9	122 - 130	C 125.8	2.5	136 - 144	C 140.3	2.2	155 - 163	C 158.8	2.9	109 - 117	C 113.0	1.8	132

Total Population

Whole Population	20	124 - 132	C 128.0	3.1	125 - 133	C 129.1	5.3	139 - 147	C 142.5	3.7	158 - 166	C 161.7	5.1	110 - 118	C 114.3	2.9	308
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Protein, Total

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	4.3 - 5.2	P 4.77	0.09	10.0 - 12.3	P 11.16	0.13	6.3 - 7.7	P 6.96	0.09	8.9 - 10.9	P 9.87	0.11	2.4 - 2.9	P 2.62	0.08	17
Alfa Wassermann & Alfa Wasser Excel/Alera	2	4.4 - 5.3	P 4.85	0.13	9.8 - 12.0	P 10.94	0.2	6.3 - 7.7	P 6.99	0.17	8.8 - 10.7	P 9.77	0.2	2.5 - 3.0	P 2.75	0.07	15
All refractometers & All other refractometers	3	5.3 - 6.5	P 5.92	0.15	11.1 - 13.6	P 12.36	0.21	7.5 - 9.2	P 8.34	0.12	10.4 - 12.8	P 11.61	0.14	3.2 - 3.9	P 3.53	0.11	276
All refractometers & Reichert TS Meter-DSP	4	5.3 - 6.5	P 5.94	0.18	11.1 - 13.6	P 12.37	0.13	7.5 - 9.2	P 8.35	0.11	10.4 - 12.8	P 11.61	0.13	3.2 - 3.9	P 3.53	0.13	127
Beckman Olympus & Beck Olym AU 400/600/5400	5	4.2 - 5.2	P 4.71	0.14	9.6 - 11.7	P 10.67	0.3	6.1 - 7.4	P 6.76	0.18	8.5 - 10.3	P 9.39	0.2	2.5 - 3.1	P 2.78	0.17	27
Beckman Olympus & Beckman AU 480	6	4.2 - 5.2	P 4.7	0.12	9.5 - 11.6	P 10.57	0.28	6.1 - 7.4	P 6.74	0.17	8.4 - 10.3	P 9.35	0.23	2.4 - 2.9	P 2.68	0.12	26
Ortho Vitros & Ortho Vitros 3600, 5600	7	4.3 - 5.2	P 4.74	0.09	10.1 - 12.4	P 11.24	0.32	6.0 - 7.4	P 6.71	0.17	8.4 - 10.3	P 9.37	0.31	2.5 - 3.0	P 2.75	0.09	19
Ortho Vitros & Ortho Vitros not DT or ECi	8	4.3 - 5.2	P 4.75	0.11	10.5 - 12.9	P 11.7	0.4	6.1 - 7.4	P 6.74	0.18	8.5 - 10.3	P 9.4	0.26	2.5 - 3.1	P 2.79	0.09	21
Reichert TS Meter-DSP & Reichert TS Meter-DSP	9	5.3 - 6.5	P 5.92	0.13	11.1 - 13.6	P 12.34	0.17	7.5 - 9.2	P 8.33	0.1	10.4 - 12.8	P 11.6	0.15	3.2 - 3.9	P 3.52	0.1	304
Roche Cobas & Roche e/c, 1XX, X000, Elec series	10	4.4 - 5.4	P 4.91	0.1	9.7 - 11.9	P 10.78	0.2	6.3 - 7.7	P 6.96	0.14	8.6 - 10.5	P 9.59	0.19	2.5 - 3.1	P 2.79	0.08	14

Siemens Dimension & Siemens Dimension EXL	11	4.5 - 5.5	P 4.97	0.09	10.2 - 12.4	P 11.29	0.18	6.4 - 7.8	P 7.13	0.11	9.0 - 11.0	P 9.96	0.15	2.5 - 3.1	P 2.81	0.06	43
Siemens Dimension & Siemens Dimension Xpand	12	4.5 - 5.5	P 5.01	0.11	10.2 - 12.5	P 11.34	0.22	6.4 - 7.9	P 7.16	0.14	9.0 - 11.0	P 10.04	0.2	2.6 - 3.1	P 2.85	0.1	15
Initial Grouping byReagent																	
Abbott	13	4.3 - 5.2	P 4.77	0.09	10.0 - 12.3	P 11.16	0.13	6.3 - 7.7	P 6.96	0.09	8.9 - 10.9	P 9.87	0.11	2.4 - 2.9	P 2.62	0.08	17
Alfa Wassermann	14	4.4 - 5.3	P 4.85	0.13	9.8 - 12.0	P 10.94	0.2	6.3 - 7.7	P 6.99	0.17	8.8 - 10.7	P 9.77	0.2	2.5 - 3.0	P 2.75	0.07	15
All refractometers	15	5.3 - 6.5	P 5.92	0.18	11.1 - 13.6	P 12.36	0.19	7.5 - 9.2	P 8.34	0.12	10.4 - 12.8	P 11.61	0.14	3.2 - 3.9	P 3.53	0.12	406
Beckman Olympus	16	4.2 - 5.2	P 4.7	0.13	9.6 - 11.7	P 10.62	0.29	6.1 - 7.4	P 6.75	0.17	8.4 - 10.3	P 9.37	0.21	2.5 - 3.0	P 2.73	0.15	55
Carolina	17	4.3 - 5.2	P 4.74	0.14	9.9 - 12.1	P 10.99	0.16	6.1 - 7.5	P 6.8	0.18	8.6 - 10.5	P 9.56	0.23	2.4 - 3.0	P 2.69	0.1	11
Ortho Vitros	18	4.3 - 5.2	P 4.75	0.11	10.3 - 12.6	P 11.46	0.42	6.0 - 7.4	P 6.71	0.17	8.4 - 10.3	P 9.37	0.27	2.5 - 3.0	P 2.77	0.09	47
Reichert TS Meter-DSP	19	5.3 - 6.5	P 5.92	0.13	11.1 - 13.6	P 12.34	0.16	7.5 - 9.2	P 8.33	0.1	10.4 - 12.8	P 11.6	0.15	3.2 - 3.9	P 3.52	0.11	307
Roche Cobas	20	4.4 - 5.3	P 4.85	0.15	9.6 - 11.7	P 10.68	0.27	6.2 - 7.5	P 6.85	0.19	8.5 - 10.4	P 9.43	0.28	2.5 - 3.0	P 2.74	0.09	31
Siemens Dimension	21	4.5 - 5.5	P 5.0	0.11	10.2 - 12.5	P 11.32	0.2	6.4 - 7.9	P 7.16	0.13	9.0 - 11.0	P 10.01	0.18	2.5 - 3.1	P 2.83	0.08	64
Siemens biuret based	22	4.5 - 5.5	P 4.99	0.12	10.1 - 12.4	P 11.25	0.28	6.4 - 7.9	P 7.16	0.14	9.0 - 11.0	P 9.97	0.21	2.5 - 3.1	P 2.8	0.06	10
Initial Grouping bySensitivityor Principle																	
Bichromatic-no sam blanks	23	4.3 - 5.2	P 4.77	0.16	9.7 - 11.9	P 10.82	0.38	6.2 - 7.5	P 6.86	0.22	8.6 - 10.5	P 9.58	0.32	2.4 - 3.0	P 2.72	0.13	119
All refractometer users	24	5.3 - 6.5	P 5.92	0.18	11.1 - 13.6	P 12.36	0.19	7.5 - 9.2	P 8.34	0.12	10.4 - 12.8	P 11.61	0.14	3.2 - 3.9	P 3.53	0.12	406
Rate	25	4.3 - 5.2	P 4.75	0.12	9.9 - 12.1	P 10.98	0.17	6.1 - 7.5	P 6.81	0.16	8.6 - 10.5	P 9.55	0.2	2.4 - 3.0	P 2.71	0.09	15
Uncorrected	26	4.3 - 5.3	P 4.82	0.22	10.2 - 12.5	P 11.32	0.54	6.2 - 7.5	P 6.84	0.33	8.6 - 10.5	P 9.55	0.46	2.5 - 3.1	P 2.78	0.16	75
Bichromatic-sample blanked	27	4.5 - 5.5	P 4.99	0.12	10.2 - 12.4	P 11.31	0.22	6.4 - 7.9	P 7.15	0.14	9.0 - 11.0	P 10.0	0.19	2.5 - 3.1	P 2.83	0.08	65
Just sample blanked	28	4.4 - 5.3	P 4.85	0.15	9.6 - 11.7	P 10.68	0.27	6.2 - 7.5	P 6.85	0.19	8.5 - 10.4	P 9.43	0.28	2.5 - 3.0	P 2.74	0.09	31
Total Population																	
Whole Population	29	5.0 - 6.1	P 5.59	0.53	10.8 - 13.2	P 11.96	0.67	7.1 - 8.7	P 7.91	0.68	9.9 - 12.1	P 11.02	0.93	3.0 - 3.6	P 3.3	0.37	1021

Triglycerides

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	89 - 148	P 118.6	2.7	109 - 182	P 145.4	2.1	115 - 191	P 153.1	2.7	149 - 248	P 198.1	3.0	63 - 104	P 83.4	2.1	14
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	96 - 160	P 127.7	3.2	114 - 190	P 151.9	5.3	120 - 200	P 159.6	4.0	150 - 250	P 200.1	3.9	70 - 117	P 93.9	3.2	14
Beckman Olympus & Beck Olym AU 400/600/5400	3	93 - 155	P 124.0	2.7	110 - 184	P 147.3	3.5	119 - 199	P 159.3	3.9	155 - 258	P 206.5	5.3	66 - 109	P 87.4	2.3	23
Beckman Olympus & Beckman AU 480	4	93 - 156	P 124.6	3.8	110 - 184	P 147.3	5.3	121 - 201	P 161.0	4.1	156 - 259	P 207.6	5.5	67 - 111	P 88.7	3.0	22
Ortho Vitros & Ortho Vitros 3600, 5600	5	98 - 163	P 130.3	3.4	123 - 205	P 163.6	4.8	130 - 217	P 173.5	4.4	174 - 290	P 232.0	6.0	68 - 113	P 90.1	2.9	19
Ortho Vitros & Ortho Vitros not DT or ECI	6	100 - 166	P 132.9	3.5	125 - 208	P 166.3	4.3	132 - 220	P 176.4	4.5	177 - 295	P 236.1	6.2	69 - 115	P 92.0	2.1	20
Roche Cobas & Roche Cobas Integra	7	95 - 158	P 126.1	2.4	112 - 187	P 149.7	3.2	118 - 197	P 157.4	3.0	147 - 245	P 196.4	3.7	69 - 115	P 91.8	2.2	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	93 - 154	P 123.4	2.6	113 - 188	P 150.4	2.5	116 - 193	P 154.6	4.1	147 - 244	P 195.4	3.2	67 - 112	P 89.4	1.8	14
Siemens Dimension & Siemens Dimension EXL	9	87 - 145	P 115.9	2.3	105 - 175	P 140.3	2.5	115 - 191	P 152.8	3.0	150 - 250	P 199.7	3.1	59 - 99	P 79.0	1.7	46
Siemens Dimension & Siemens Dimension Xpand	10	87 - 146	P 116.5	2.0	105 - 176	P 140.5	1.5	115 - 191	P 152.7	2.6	150 - 250	P 200.0	3.2	59 - 98	P 78.4	1.2	15

Initial Grouping byReagent

Abbott	11	89 - 148	P 118.6	2.7	109 - 182	P 145.4	2.1	115 - 191	P 153.1	2.7	149 - 248	P 198.1	3.0	63 - 104	P 83.4	2.1	14
Alfa Wassermann	12	96 - 160	P 127.7	3.2	114 - 190	P 151.9	5.3	120 - 200	P 159.6	4.0	150 - 250	P 200.1	3.9	70 - 117	P 93.9	3.2	14
Beckman GPO glycerol-unc	13	96 - 160	P 127.8	2.8	124 - 206	P 165.0	7.6	125 - 209	P 166.9	4.9	162 - 270	P 216.1	6.0	66 - 111	P 88.6	3.6	10
Beckman Olympus	14	93 - 155	P 124.2	3.3	110 - 184	P 147.2	4.4	120 - 200	P 160.0	4.1	155 - 259	P 206.9	5.4	66 - 110	P 88.0	2.7	47
Carolina	15	87 - 145	P 115.7	9.4	99 - 166	P 132.6	11.6	107 - 178	P 142.1	14.0	133 - 221	P 177.0	18.3	59 - 98	P 78.8	8.2	11
Ortho Vitros	16	99 - 165	P 131.9	3.6	124 - 207	P 165.2	4.7	131 - 219	P 175.2	4.6	176 - 293	P 234.4	6.4	68 - 114	P 91.3	2.7	44
Pointe Scientific	17	86 - 143	P 114.3	3.4	105 - 175	P 139.8	6.3	108 - 181	P 144.6	4.7	139 - 232	P 185.9	8.4	63 - 105	P 84.1	4.6	14
Roche Cobas	18	93 - 156	P 124.5	2.9	113 - 188	P 150.1	3.2	117 - 195	P 156.0	4.2	147 - 245	P 195.8	4.3	68 - 113	P 90.5	2.4	34
Siemens Dimension	19	87 - 146	P 116.6	3.7	106 - 176	P 140.9	3.9	115 - 192	P 153.4	4.2	150 - 251	P 200.5	5.0	59 - 99	P 79.3	3.1	67
Sterling Diagnostic	20	97 - 162	P 129.3	3.9	121 - 201	P 161.2	4.3	123 - 205	P 164.0	4.7	158 - 263	P 210.8	7.9	71 - 119	P 94.9	4.0	14

Initial Grouping bySensitivityor Principle

Gly-unc/visible/GPO-based	21	92 - 154	P 123.0	7.0	112 - 187	P 149.6	11.2	119 - 199	P 158.9	10.1	155 - 258	P 206.1	16.1	65 - 108	P 86.5	6.2	283
Gly-unc/visible/INT-based	22	96 - 160	P 127.7	3.2	114 - 190	P 151.9	5.3	120 - 200	P 159.6	4.0	150 - 250	P 200.1	3.9	70 - 117	P 93.9	3.2	14
Total Population																	
Whole Population	23	92 - 154	P 123.3	6.9	112 - 187	P 149.6	10.9	119 - 199	P 158.9	9.8	154 - 257	P 205.8	15.6	65 - 109	P 86.8	6.3	306

Urea Nitrogen (BUN)

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	15 - 19	C 17.0	0.5	4 - 8	C 6.1	0.3	26 - 31	P 28.4	0.8	40 - 48	P 43.6	1.3	4 - 8	C 6.1	0.3	15
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	15 - 19	C 16.6	0.6	4 - 8	C 5.8	0.4	25 - 30	P 27.2	0.9	37 - 45	P 40.9	1.4	4 - 8	C 6.1	0.3	18
Beckman Olympus & Beck Olym AU 400/600/5400	3	15 - 19	C 17.2	0.6	4 - 8	C 6.3	0.6	26 - 31	P 28.2	1.1	39 - 46	P 42.6	1.6	4 - 8	C 6.1	0.4	25
Beckman Olympus & Beckman AU 480	4	16 - 20	C 17.8	0.8	5 - 9	C 6.5	0.6	26 - 31	P 28.4	1.0	39 - 47	P 43.2	1.4	5 - 9	C 6.5	0.6	25
Ortho Vitros & Ortho Vitros 3600, 5600	5	12 - 16	C 13.7	0.6	3 - 7	C 4.5	0.5	21 - 25	P 22.6	0.8	32 - 38	P 35.3	0.7	2 - 6	C 4.3	0.5	18
Ortho Vitros & Ortho Vitros not DT or ECI	6	12 - 16	C 14.0	0.6	3 - 7	C 4.7	0.5	21 - 25	P 22.8	0.7	32 - 39	P 35.7	0.9	3 - 7	C 4.7	0.5	21
Roche Cobas & Roche Cobas Integra	7	15 - 19	C 17.2	0.6	4 - 8	C 6.3	0.5	26 - 31	P 28.4	0.7	40 - 48	P 43.9	1.8	4 - 8	C 6.0	0.6	10

Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	15 - 19	C 17.0	0.5	4 - 8	C 6.0	0.0	26 - 31	P 28.2	0.8	39 - 47	P 43.0	1.1	4 - 8	C 6.0	0.0	14
Siemens GLDH-rate & Siemens Dimension EXL	9	16 - 20	C 17.7	0.9	5 - 9	C 6.6	0.8	26 - 31	P 28.4	1.1	39 - 47	P 43.3	1.4	4 - 8	C 6.4	0.9	47
Siemens GLDH-rate & Siemens Dimension Xpand	10	15 - 19	C 17.3	0.8	4 - 8	C 6.3	0.7	26 - 31	P 28.5	0.7	39 - 47	P 43.0	1.4	4 - 8	C 6.3	0.6	14
Initial Grouping byReagent																	
Abbott	11	15 - 19	C 17.0	0.5	4 - 8	C 6.1	0.3	26 - 31	P 28.4	0.8	40 - 48	P 43.6	1.3	4 - 8	C 6.1	0.3	15
Alfa Wassermann	12	15 - 19	C 16.6	0.6	4 - 8	C 5.8	0.4	25 - 30	P 27.2	0.9	37 - 45	P 40.9	1.4	4 - 8	C 6.1	0.3	18
Beckman GLDH-rate	13	16 - 20	C 17.8	0.7	5 - 9	C 6.9	0.3	27 - 32	P 29.4	0.9	41 - 49	P 44.8	1.2	5 - 9	C 6.7	0.4	12
Beckman Olympus	14	16 - 20	C 17.5	0.7	4 - 8	C 6.4	0.6	26 - 31	P 28.3	1.0	39 - 47	P 42.9	1.5	4 - 8	C 6.3	0.6	52
Carolina	15	16 - 20	C 17.6	0.8	5 - 9	C 6.7	0.5	26 - 31	P 28.5	0.8	39 - 47	P 42.8	1.7	5 - 9	C 6.6	0.7	10
Ortho Vitros	16	12 - 16	C 13.9	0.6	3 - 7	C 4.7	0.9	21 - 25	P 22.7	0.7	32 - 39	P 35.5	0.8	3 - 7	C 4.7	0.9	46
Roche Cobas	17	15 - 19	C 17.0	0.6	4 - 8	C 6.1	0.3	26 - 31	P 28.1	0.8	39 - 47	P 43.1	1.5	4 - 8	C 6.0	0.4	32
Siemens GLDH-rate	18	16 - 20	C 17.6	0.9	5 - 9	C 6.5	0.8	26 - 31	P 28.5	1.0	39 - 47	P 43.4	1.4	4 - 8	C 6.4	0.8	70
Synermed	19	15 - 19	C 16.8	1.2	4 - 8	C 6.2	0.6	24 - 29	P 26.8	1.9	37 - 44	P 40.8	3.0	4 - 8	C 6.0	0.6	10
Initial Grouping bySensitivityor Principle																	
Glutamate DH-rate methods	20	15 - 19	C 17.3	1.6	4 - 8	C 6.4	0.8	26 - 31	P 28.3	2.7	39 - 47	P 42.8	2.0	4 - 8	C 6.3	0.7	256
Ammonia (NH3) diffusion	21	12 - 16	C 13.9	0.6	3 - 7	C 4.7	0.9	21 - 25	P 22.7	0.7	32 - 39	P 35.5	0.8	3 - 7	C 4.7	0.9	46
Total Population																	
Whole Population	22	15 - 19	C 16.9	1.9	4 - 8	C 6.2	1.0	25 - 30	P 27.5	3.1	38 - 45	P 41.6	3.4	4 - 8	C 6.1	1.0	319

Uric Acid

Initial Grouping byReagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	3.8 - 5.4	P 4.6	0.0	1.5 - 2.1	P 1.78	0.04	6.2 - 8.7	P 7.43	0.09	9.3 - 13.2	P 11.26	0.18	1.5 - 2.1	P 1.78	0.04	12
Alfa Wassermann & Alfa Wasser Axel/Alera	2	3.9 - 5.6	P 4.75	0.21	2.4 - 3.4	P 2.9	0.0	5.8 - 8.2	P 7.01	0.25	8.5 - 12.0	P 10.22	0.5	1.6 - 2.2	P 1.9	0.0	11
Beckman Olympus & Beck Olym AU 400/600/5400	3	3.6 - 5.1	P 4.39	0.15	1.5 - 2.1	P 1.83	0.08	5.8 - 8.1	P 6.96	0.21	8.6 - 12.1	P 10.37	0.3	1.5 - 2.1	P 1.76	0.09	20
Beckman Olympus & Beckman AU 480	4	3.6 - 5.1	P 4.39	0.1	1.5 - 2.2	P 1.85	0.06	5.8 - 8.2	P 7.0	0.17	8.7 - 12.2	P 10.45	0.24	1.5 - 2.1	P 1.76	0.05	14
Ortho Vitros & Ortho Vitros 3600, 5600	5	3.6 - 5.1	P 4.34	0.09	1.5 - 2.1	P 1.83	0.06	5.8 - 8.2	P 7.02	0.11	8.9 - 12.6	P 10.75	0.17	1.3 - 1.8	P 1.56	0.06	14
Ortho Vitros & Ortho Vitros not DT or ECi	6	3.6 - 5.1	P 4.32	0.16	1.5 - 2.1	P 1.81	0.09	5.7 - 8.1	P 6.91	0.23	8.8 - 12.4	P 10.57	0.27	1.3 - 1.8	P 1.57	0.07	16
Roche Cobas & Roche e/c, 1XX, X000, Elec series	7	3.6 - 5.0	P 4.28	0.16	1.4 - 2.0	P 1.7	0.06	5.7 - 8.0	P 6.85	0.21	8.5 - 11.9	P 10.21	0.33	1.4 - 1.9	P 1.63	0.05	13
Siemens Dimension & Siemens Dimension EXL	8	3.5 - 4.9	P 4.23	0.1	1.5 - 2.1	P 1.77	0.13	5.6 - 7.9	P 6.73	0.13	8.3 - 11.7	P 10.02	0.29	1.4 - 2.0	P 1.69	0.1	47
Siemens Dimension & Siemens Dimension Xpand	9	3.5 - 5.0	P 4.25	0.14	1.5 - 2.1	P 1.76	0.17	5.6 - 7.9	P 6.72	0.27	8.4 - 11.8	P 10.07	0.39	1.4 - 2.0	P 1.68	0.09	13
Initial Grouping byReagent																	
Abbott Architect	10	3.8 - 5.4	P 4.6	0.0	1.5 - 2.1	P 1.78	0.04	6.2 - 8.7	P 7.43	0.09	9.3 - 13.2	P 11.26	0.18	1.5 - 2.1	P 1.78	0.04	12
Alfa Wassermann	11	3.9 - 5.6	P 4.75	0.21	2.4 - 3.4	P 2.9	0.0	5.8 - 8.2	P 7.01	0.25	8.5 - 12.0	P 10.22	0.5	1.6 - 2.2	P 1.9	0.0	11
Beckman Coulter	12	3.6 - 5.1	P 4.32	0.09	1.4 - 2.0	P 1.74	0.12	5.7 - 8.0	P 6.84	0.17	8.4 - 11.9	P 10.16	0.31	1.4 - 2.0	P 1.72	0.04	16
Beckman Olympus	13	3.6 - 5.1	P 4.39	0.13	1.5 - 2.2	P 1.84	0.07	5.8 - 8.2	P 6.98	0.19	8.6 - 12.2	P 10.4	0.27	1.5 - 2.1	P 1.76	0.07	36
Carolina	14	3.5 - 5.0	P 4.25	0.24	1.5 - 2.2	P 1.86	0.23	5.6 - 7.9	P 6.72	0.36	8.2 - 11.5	P 9.85	0.46	1.4 - 2.0	P 1.67	0.13	10
Ortho Vitros	15	3.6 - 5.1	P 4.34	0.13	1.5 - 2.1	P 1.82	0.08	5.8 - 8.1	P 6.96	0.18	8.8 - 12.4	P 10.64	0.24	1.3 - 1.8	P 1.58	0.07	32
Roche Cobas	16	3.6 - 5.0	P 4.28	0.16	1.4 - 2.0	P 1.7	0.07	5.7 - 8.1	P 6.89	0.23	8.5 - 12.0	P 10.25	0.35	1.4 - 1.9	P 1.63	0.05	30
Siemens Dimension	17	3.5 - 4.9	P 4.23	0.11	1.5 - 2.1	P 1.77	0.13	5.6 - 7.9	P 6.72	0.17	8.3 - 11.7	P 10.02	0.31	1.4 - 2.0	P 1.69	0.1	65
Initial Grouping bySensitivityor Principle																	
Endpt-corrected(bic or SB)	18	3.7 - 5.2	P 4.42	0.2	1.5 - 2.1	P 1.81	0.16	5.8 - 8.2	P 7.01	0.25	8.7 - 12.3	P 10.54	0.43	1.4 - 2.0	P 1.68	0.13	102
Rate	19	3.5 - 5.0	P 4.26	0.14	1.5 - 2.1	P 1.76	0.14	5.6 - 7.9	P 6.78	0.22	8.4 - 11.8	P 10.09	0.36	1.4 - 2.0	P 1.68	0.09	122
Endpoint-uncorrected	20	3.6 - 5.1	P 4.38	0.26	1.8 - 2.5	P 2.17	0.35	5.9 - 8.3	P 7.06	0.42	8.5 - 12.0	P 10.29	0.79	1.6 - 2.2	P 1.92	0.23	29
Total Population																	
Whole Population	21	3.6 - 5.1	P 4.34	0.2	1.5 - 2.1	P 1.83	0.22	5.7 - 8.1	P 6.91	0.29	8.5 - 12.1	P 10.3	0.5	1.4 - 2.0	P 1.71	0.15	253