



## Comprehensive 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	
<b>Alpha-fetoprotein</b>																	
<b>Initial Grouping by Reagent</b>																	
Beckman Coulter Access	1	2.5 - 3.2	S 2.85	0.11	172.3 - 235.8	S 204.05	10.57	246.3 - 354.5	S 300.43	18.03	142.3 - 185.7	S 164.0	7.25	58.1 - 69.2	S 63.65	1.84	4
Roche Elecsys	2	0.6 - 5.6	S 3.11	0.82	134.1 - 279.2	S 206.63	24.19	205.7 - 450.6	S 328.16	40.82	108.9 - 236.0	S 172.44	21.19	44.2 - 99.0	S 71.56	9.13	8
<b>Initial Grouping by Sensitivity or Principle</b>																	
luminometric	3	1.1 - 4.8	S 2.97	0.61	142.3 - 265.1	S 203.7	20.48	215.0 - 419.3	S 317.16	34.04	116.3 - 219.6	S 167.95	17.21	45.0 - 91.8	S 68.4	7.8	16
All Siemens Methods	4	0 - 5.9	S 2.35	1.18	139.0 - 267.1	S 203.04	21.34	209.5 - 466.0	S 337.73	42.74	111.9 - 218.6	S 165.27	17.78	57.0 - 78.7	S 67.87	3.62	6
<b>Total Population</b>																	
Whole Population	5	0.4 - 5.3	S 2.85	0.83	38.2 - 341.8	S 190.0	50.59	212.8 - 438.4	S 325.63	37.6	103.2 - 230.6	S 166.89	21.23	48.1 - 89.6	S 68.85	6.92	24
<b>Amylase</b>																	
<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	17 - 32	P 24.9	1.3	103 - 190	P 146.5	3.6	161 - 300	P 230.6	4.5	87 - 161	P 123.8	3.0	40 - 75	P 57.5	1.5	17
Beckman AMY7 & Beck Coulter Unicel DXC	2	17 - 32	P 24.9	1.8	99 - 184	P 141.7	3.1	159 - 295	P 227.2	4.9	85 - 158	P 121.2	3.3	40 - 75	P 57.8	1.7	10
Beckman Olympus & Beck Olym AU 400/600/5400	3	11 - 21	P 16.0	1.3	71 - 132	P 101.6	5.6	114 - 212	P 162.8	8.4	61 - 112	P 86.5	5.1	28 - 53	P 40.6	2.3	17
Beckman Olympus & Beck Olympus AU 2700	4	13 - 24	P 18.3	0.4	79 - 146	P 112.3	1.9	126 - 234	P 180.3	4.0	68 - 126	P 96.8	2.4	32 - 59	P 45.5	0.5	4
Beckman Olympus & Beckman AU 480	5	11 - 21	P 16.3	1.3	73 - 136	P 104.8	3.5	118 - 218	P 168.0	7.3	63 - 116	P 89.5	3.1	30 - 56	P 42.8	1.8	10
Horiba ABX & Horiba ABX 400	6	17 - 31	P 24.0	0.7	95 - 177	P 136.3	2.3	151 - 281	P 216.3	2.2	81 - 151	P 116.3	0.8	38 - 71	P 54.8	0.8	4
Ortho Vitros & Ortho Vitros 3600, 5600	7	21 - 40	P 30.4	1.0	52 - 97	P 74.3	2.7	76 - 142	P 109.0	6.6	44 - 82	P 63.4	5.2	22 - 41	P 31.9	2.8	12
Ortho Vitros & Ortho Vitros 5,1 FS	8	21 - 39	P 30.3	0.4	50 - 93	P 71.5	3.6	78 - 144	P 110.8	3.9	41 - 76	P 58.5	3.6	23 - 43	P 32.8	4.8	4
Ortho Vitros & Ortho Vitros not DT or ECI	9	21 - 39	P 30.0	0.0	49 - 91	P 70.2	5.2	74 - 138	P 106.1	8.6	44 - 81	P 62.5	4.1	22 - 41	P 31.5	2.4	16
Roche Cobas & Roche Cobas 6000	10	18 - 34	P 25.9	1.3	94 - 174	P 133.9	3.4	150 - 279	P 214.4	6.2	79 - 147	P 113.1	3.0	39 - 72	P 55.0	1.9	8
Roche Cobas & Roche Cobas Integra	11	18 - 33	P 25.7	0.7	92 - 170	P 131.1	3.5	145 - 269	P 206.9	5.1	78 - 145	P 111.6	3.0	38 - 70	P 54.0	1.3	9
Roche Cobas & Roche e/c, 1XX, X000, Elec series	12	18 - 33	P 25.5	0.8	93 - 172	P 132.3	3.1	149 - 276	P 212.6	5.9	79 - 146	P 112.3	3.1	38 - 70	P 54.0	1.6	12
Sekisui & Beck Olym AU 400/600/5400	13	16 - 30	P 22.8	2.2	94 - 175	P 134.8	7.1	150 - 279	P 214.5	6.5	80 - 148	P 113.8	3.3	38 - 71	P 54.8	0.8	4
Siemens Advia & Siemens Advia	14	17 - 32	P 24.3	0.4	90 - 166	P 128.0	2.5	144 - 268	P 206.0	2.5	78 - 144	P 110.8	2.2	38 - 71	P 54.3	2.9	4
Siemens Dimension & Siemens Dim Rxl, Rxl Max	15	15 - 27	P 21.0	2.4	102 - 189	P 145.3	2.5	162 - 300	P 230.7	5.8	86 - 160	P 123.2	2.0	39 - 73	P 56.3	1.5	6
Siemens Dimension & Siemens Dimension EXL	16	16 - 29	P 22.5	0.7	101 - 188	P 144.9	2.5	160 - 297	P 228.6	3.2	87 - 161	P 123.6	2.1	40 - 74	P 57.3	1.2	48
Siemens Dimension & Siemens Dimension Xpand	17	16 - 29	P 22.4	1.1	103 - 191	P 146.6	2.2	162 - 301	P 231.7	2.8	87 - 162	P 124.6	1.5	40 - 75	P 57.6	1.1	16
<b>Initial Grouping by Reagent</b>																	
Abbott Aeroset/Architect	18	17 - 32	P 24.9	1.3	103 - 190	P 146.5	3.6	161 - 300	P 230.6	4.5	87 - 161	P 123.8	3.0	40 - 75	P 57.5	1.5	17
Beckman AMY7	19	17 - 32	P 24.9	1.8	99 - 184	P 141.7	3.1	159 - 295	P 227.2	4.9	85 - 158	P 121.2	3.3	40 - 75	P 57.8	1.7	10
Beckman Olympus	20	11 - 21	P 16.4	1.4	73 - 136	P 104.3	5.9	117 - 217	P 167.0	9.5	62 - 116	P 88.9	5.4	29 - 55	P 42.0	2.6	32
Carolina	21	15 - 28	P 21.2	4.4	136 - 253	P 194.8	15.0	224 - 416	P 320.2	23.1	116 - 216	P 166.0	12.7	53 - 98	P 75.5	10.3	6
Horiba ABX	22	17 - 31	P 24.0	0.7	95 - 177	P 136.3	2.3	151 - 281	P 216.3	2.2	81 - 151	P 116.3	0.8	38 - 71	P 54.8	0.8	4
Ortho Vitros	23	21 - 39	P 30.2	0.6	50 - 93	P 71.8	4.6	75 - 140	P 107.6	7.6	44 - 81	P 62.3	4.7	22 - 41	P 31.8	3.0	33
Roche Cobas	24	18 - 33	P 25.7	0.9	93 - 172	P 132.3	3.5	148 - 275	P 211.3	6.5	79 - 146	P 112.3	3.1	38 - 71	P 54.3	1.7	29
Sekisui	25	16 - 30	P 23.0	2.3	93 - 172	P 132.3	7.4	149 - 277	P 213.0	7.9	79 - 146	P 112.6	4.7	37 - 69	P 53.4	3.0	7
Siemens Advia	26	17 - 32	P 24.3	0.4	90 - 166	P 128.0	2.5	144 - 268	P 206.0	2.5	78 - 144	P 110.8	2.2	38 - 71	P 54.3	2.9	4
Siemens Dimension	27	16 - 29	P 22.3	1.2	102 - 189	P 145.3	2.6	160 - 298	P 229.3	3.8	87 - 161	P 123.7	2.0	40 - 74	P 57.3	1.2	72
<b>Initial Grouping by Sensitivity or Principle</b>																	
Moderate recovery methods	28	16 - 30	P 22.9	2.3	91 - 169	P 129.8	13.6	145 - 269	P 206.6	22.5	77 - 142	P 109.5	13.3	37 - 69	P 52.9	4.7	16
High moderate recovery meth	29	16 - 30	P 22.7	1.9	102 - 190	P 146.4	11.7	163 - 302	P 232.5	22.7	88 - 162	P 125.0	10.9	41 - 75	P 58.0	5.5	103
All Beckman	30	13 - 24	P 18.7	4.0	80 - 148	P 113.8	17.5	128 - 237	P 182.4	28.2	68 - 126	P 97.2	15.3	32 - 60	P 46.0	7.5	45
Very low recovery methods	31	21 - 39	P 30.2	0.6	50 - 93	P 71.8	4.6	75 - 140	P 107.6	7.6	44 - 81	P 62.3	4.7	22 - 41	P 31.8	3.0	33
All other methods	32	18 - 33	P 25.7	0.9	93 - 172	P 132.3	3.5	148 - 275	P 211.3	6.5	79 - 146	P 112.3	3.1	38 - 71	P 54.3	1.7	29

Low moderate recovery meth	33	17 - 32	P 24.3	0.4	90 - 166	P 128.0	2.5	144 - 268	P 206.0	2.5	78 - 144	P 110.8	2.2	38 - 71	P 54.3	2.9	4
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<b>Total Population</b>																	
Whole Population	34	16 - 30	P 23.4	4.3	89 - 165	P 126.8	29.7	140 - 261	P 200.7	49.4	75 - 140	P 107.8	24.9	36 - 67	P 51.8	12.6	230

**Bilirubin, Direct Comprehensive**

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott acid diazo & Abbott Architect c, ci, i	1	0 - 0.5	C 0.1	0.0	0.9 - 1.7	C 1.33	0.07	1.4 - 2.2	C 1.82	0.09	0.8 - 1.6	C 1.16	0.06	0.3 - 1.1	C 0.65	0.06	13
Beckman Coulter & Beck Coulter Unicel DXC	2	0 - 0.4	C 0.04	0.05	0.3 - 1.1	C 0.74	0.06	0.7 - 1.5	C 1.11	0.09	0.2 - 1.0	C 0.61	0.07	0 - 0.7	C 0.33	0.04	11
Beckman Olympus & Beck Olym AU 400/600/5400	3	0 - 0.4	C 0.03	0.05	0.7 - 1.5	C 1.08	0.11	1.1 - 1.9	C 1.53	0.12	0.5 - 1.3	C 0.88	0.09	0.1 - 0.9	C 0.47	0.06	13
Beckman Olympus & Beckman AU 480	4	0 - 0.4	C 0.0	0.0	0.6 - 1.4	C 1.0	0.07	1.1 - 1.9	C 1.46	0.12	0.4 - 1.2	C 0.84	0.09	0 - 0.8	C 0.44	0.05	8
Ortho Vitros & Ortho Vitros 3600, 5600	5	0 - 0.4	C 0.03	0.05	0.5 - 1.3	C 0.92	0.58	1.2 - 2.0	C 1.58	0.91	0.3 - 1.1	C 0.73	0.49	0 - 0.8	C 0.37	0.26	10
Ortho Vitros & Ortho Vitros not DT or ECI	6	0 - 0.4	C 0.01	0.03	0 - 0.6	C 0.19	0.39	0 - 0.7	C 0.33	0.09	0 - 0.4	C 0.03	0.05	0 - 0.4	C 0.01	0.03	8
Point Scientific & Beck Olym AU 400/600/5400	7	0 - 0.4	C 0.03	0.05	1.0 - 1.8	C 1.35	0.27	1.4 - 2.2	C 1.75	0.38	0.8 - 1.6	C 1.18	0.22	0.2 - 1.0	C 0.63	0.13	4
Roche acid diazo & Roche Cobas 6000	8	0 - 0.6	C 0.15	0.07	0.2 - 1.0	C 0.64	0.05	0.5 - 1.3	C 0.9	0.05	0.1 - 0.9	C 0.54	0.05	0 - 0.7	C 0.27	0.04	8
Roche acid diazo & Roche Cobas Integra	9	0 - 0.4	C 0.0	0.0	0.4 - 1.2	C 0.76	0.05	0.7 - 1.5	C 1.14	0.05	0.2 - 1.0	C 0.64	0.05	0 - 0.7	C 0.3	0.0	5
Roche acid diazo & Roche e/c, 1XX, X000, Elec series	10	0 - 0.6	C 0.2	0.0	0.2 - 1.0	C 0.63	0.04	0.5 - 1.3	C 0.9	0.07	0.1 - 0.9	C 0.53	0.08	0 - 0.7	C 0.28	0.04	4
Siemens Dimension DBI & Siemens Dim RxD, RxD Max	11	0 - 0.5	C 0.05	0.05	0.3 - 1.1	C 0.73	0.05	0.7 - 1.5	C 1.07	0.07	0.2 - 1.0	C 0.6	0.06	0 - 0.7	C 0.3	0.0	6
Siemens Dimension DBI & Siemens Dimension EXL	12	0 - 0.5	C 0.07	0.05	0.3 - 1.1	C 0.72	0.05	0.7 - 1.5	C 1.06	0.08	0.2 - 1.0	C 0.59	0.04	0 - 0.7	C 0.29	0.03	34
Siemens Dimension DBI & Siemens Dimension Xpand	13	0 - 0.5	C 0.07	0.05	0.3 - 1.1	C 0.73	0.07	0.7 - 1.5	C 1.06	0.05	0.2 - 1.0	C 0.58	0.04	0 - 0.7	C 0.3	0.0	9

<b>Initial Grouping by Reagent</b>																	
Abbott acid diazo	14	0 - 0.5	C 0.1	0.0	0.9 - 1.7	C 1.33	0.07	1.4 - 2.2	C 1.82	0.09	0.8 - 1.6	C 1.16	0.06	0.3 - 1.1	C 0.65	0.06	13
Beckman Coulter	15	0 - 0.4	C 0.03	0.05	0.4 - 1.2	C 0.81	0.15	0.8 - 1.6	C 1.19	0.19	0.3 - 1.1	C 0.66	0.13	0 - 0.8	C 0.36	0.08	14
Beckman Olympus	16	0 - 0.4	C 0.02	0.04	0.6 - 1.4	C 1.04	0.11	1.1 - 1.9	C 1.5	0.12	0.5 - 1.3	C 0.87	0.09	0.1 - 0.9	C 0.46	0.06	23
Carolina	17	0 - 0.4	C 0.02	0.04	0.5 - 1.3	C 0.86	0.22	0.8 - 1.6	C 1.18	0.21	0.4 - 1.2	C 0.8	0.18	0.1 - 0.9	C 0.46	0.12	5
Ortho Vitros	18	0 - 0.4	C 0.02	0.04	0.2 - 1.0	C 0.6	0.61	0.7 - 1.5	C 1.07	0.92	0 - 0.8	C 0.44	0.51	0 - 0.6	C 0.22	0.26	20
Point Scientific	19	0 - 0.4	C 0.03	0.05	1.0 - 1.8	C 1.35	0.27	1.4 - 2.2	C 1.75	0.38	0.8 - 1.6	C 1.18	0.22	0.2 - 1.0	C 0.63	0.13	4
Roche acid diazo	20	0 - 0.5	C 0.12	0.09	0.3 - 1.1	C 0.67	0.07	0.6 - 1.4	C 0.97	0.12	0.2 - 1.0	C 0.56	0.08	0 - 0.7	C 0.28	0.04	17
Siemens Dimension DBI	21	0 - 0.5	C 0.07	0.05	0.3 - 1.1	C 0.72	0.06	0.7 - 1.5	C 1.06	0.07	0.2 - 1.0	C 0.59	0.04	0 - 0.7	C 0.29	0.02	52

<b>Initial Grouping by Sensitivity or Principle</b>																	
Acid diazo methods	22	0 - 0.5	C 0.06	0.06	0.4 - 1.2	C 0.83	0.36	0.8 - 1.6	C 1.21	0.48	0.3 - 1.1	C 0.69	0.32	0 - 0.8	C 0.36	0.18	134
Diazonium ion methods	23	0 - 0.4	C 0.03	0.05	0.6 - 1.4	C 1.03	0.14	1.1 - 1.9	C 1.49	0.19	0.5 - 1.3	C 0.86	0.12	0 - 0.9	C 0.45	0.07	29
Other	24	0 - 0.4	C 0.04	0.06	0.7 - 1.5	C 1.08	0.28	1.1 - 1.9	C 1.51	0.38	0.5 - 1.3	C 0.91	0.25	0.1 - 0.9	C 0.48	0.16	13

<b>Total Population</b>																	
Whole Population	25	0 - 0.5	C 0.06	0.08	0.5 - 1.3	C 0.88	0.34	0.9 - 1.7	C 1.29	0.45	0.4 - 1.2	C 0.75	0.35	0 - 0.8	C 0.39	0.18	182

**Cortisol**

<b>Initial Grouping by Reagent and Instrument</b>																	
Beckman Coulter Access & Beckman Coulter Access	1	3 - 5	P 4.3	0.5	17 - 28	P 22.7	0.9	25 - 42	P 33.5	0.5	14 - 24	P 19.2	0.7	8 - 13	P 10.7	0.5	6
Beckman Coulter Access & Beckman Coulter Dxl	2	4 - 6	P 4.8	0.4	18 - 30	P 23.8	0.8	26 - 44	P 35.3	2.8	16 - 26	P 20.8	0.8	9 - 15	P 12.0	0.7	5
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	3	4 - 6	P 4.8	0.4	18 - 30	P 24.0	2.6	29 - 48	P 38.5	4.5	15 - 26	P 20.5	2.2	8 - 13	P 10.3	0.7	6
Roche Elecsys & Roche e411/e601/E170/E2010	4	4 - 6	P 4.8	0.4	19 - 32	P 25.8	0.8	30 - 50	P 40.3	1.6	16 - 27	P 21.5	0.9	8 - 13	P 10.8	0.4	4
Siemens Immulite & Siemens Immulite 2000	5	3 - 6	P 4.5	0.5	16 - 27	P 21.3	1.5	23 - 38	P 30.0	1.8	14 - 24	P 19.2	1.2	8 - 14	P 11.2	0.7	6

<b>Initial Grouping by Reagent</b>																	
Beckman Coulter Access	6	3 - 6	P 4.4	0.5	17 - 29	P 23.1	1.0	26 - 43	P 34.2	1.9	15 - 25	P 19.9	1.0	8 - 14	P 11.3	0.8	13
Roche Elecsys	7	4 - 6	P 4.7	0.4	19 - 31	P 24.7	2.0	29 - 49	P 39.2	3.5	16 - 26	P 20.9	1.7	8 - 13	P 10.5	0.6	15
Siemens Immulite	8	3 - 6	P 4.6	0.5	16 - 27	P 21.4	2.3	23 - 38	P 30.1	2.1	14 - 24	P 19.3	1.9	9 - 14	P 11.4	0.7	9
Tosoh AIA	9	3 - 6	P 4.6	0.5	17 - 29	P 23.2	1.5	26 - 43	P 34.2	2.1	15 - 26	P 20.4	2.1	9 - 14	P 11.4	0.5	5

<b>Initial Grouping by Sensitivity or Principle</b>																	
Immuno-not FPIA	10	3 - 6	P 4.6	0.5	17 - 28	P 22.4	2.9	25 - 41	P 33.0	3.8	15 - 25	P 19.7	2.4	8 - 14	P 10.8	1.1	10
luminometric	11	3 - 6	P 4.5	0.5	17 - 29	P 23.3	2.2	26 - 43	P 34.8	4.6	15 - 25	P 20.1	1.7	8 - 14	P 11.0	0.8	41

<b>Total Population</b>																	
Whole Population	12	3 - 6	P 4.5	0.7	17 - 28	P 22.8	3.7	26 - 43	P 34.1	6.3	15 - 25	P 19.8	3.1	8 - 13	P 10.8	1.6	54

**Creatine Kinase, Total**

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott & Abbott Architect c, ci, i	1	51 - 95	P 73.0	2.1	194 - 359	P 276.5	3.9	306 - 567	P 436.5	5.9	164 - 305	P 234.7	3.8	81 - 151	P 115.8	1.7	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	49 - 91	P 70.2	6.0	167 - 311	P 239.0	7.5	256 - 475	P 365.6	7.7	144 - 268	P 206.4	4.8	75 - 139	P 107.0	4.7	5
Beckman Coulter & Beck Coulter Unicel DXC	3	50 - 93	P 71.7	1.7	184 - 342	P 262.7	4.8	286 - 532	P 409.1	7.5	158 - 294	P 226.4	4.6	80 - 149	P 114.5	2.6	14
Beckman Olympus & Beck Olym AU 400/600/5400	4	41 - 77	P 59.1	4.1	164 - 304	P 233.7	12.4	256 - 475	P 365.2	20.5	139 - 257	P 198.0	11.0	69 - 127	P 97.9	5.3	20

Beckman Olympus & Beck Olympus AU 2700	5	42 - 79	P 60.5	4.3	164 - 305	P 234.8	12.9	257 - 477	P 366.8	16.5	141 - 262	P 201.5	10.7	70 - 131	P 100.5	6.1	4
Beckman Olympus & Beckman AU 480	6	42 - 79	P 60.4	1.9	166 - 308	P 237.1	9.4	261 - 485	P 373.1	15.7	141 - 262	P 201.8	7.7	70 - 129	P 99.5	4.9	8
Ortho Vitros & Ortho Vitros 3600, 5600	7	50 - 93	P 71.9	4.1	145 - 270	P 207.8	8.3	199 - 370	P 284.8	13.9	128 - 237	P 182.4	7.5	70 - 130	P 100.3	5.1	13
Ortho Vitros & Ortho Vitros not DT or ECI	8	50 - 93	P 71.9	5.1	152 - 283	P 217.6	9.9	208 - 387	P 297.6	13.8	135 - 250	P 192.4	9.7	72 - 134	P 102.7	6.4	12
Roche Cobas & Roche Cobas 6000	9	49 - 91	P 69.8	1.8	191 - 355	P 273.2	9.0	300 - 558	P 429.0	13.3	163 - 302	P 232.3	8.0	80 - 149	P 114.5	3.4	11
Roche Cobas & Roche Cobas Integra	10	47 - 87	P 67.0	1.5	180 - 334	P 257.2	4.3	275 - 511	P 392.8	7.3	153 - 284	P 218.2	3.8	76 - 142	P 109.0	2.3	9
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	47 - 87	P 67.3	4.1	187 - 348	P 267.5	15.1	293 - 544	P 418.7	24.5	158 - 294	P 226.1	12.5	78 - 145	P 111.8	6.7	10
SDI Biomed & SDI CA-240, 480	12	48 - 89	P 68.8	2.3	173 - 322	P 247.4	16.2	272 - 506	P 389.2	14.9	152 - 282	P 216.6	12.7	78 - 144	P 110.8	8.7	5
Siemens Advia & Siemens Advia	13	44 - 82	P 62.8	2.2	171 - 318	P 244.8	6.4	271 - 502	P 386.5	9.2	147 - 273	P 210.0	6.0	72 - 134	P 103.0	2.5	4
Siemens Dimension & Siemens Dimension EXL	14	50 - 93	P 71.7	1.0	183 - 339	P 260.8	3.6	286 - 531	P 408.7	5.9	156 - 290	P 222.9	3.2	77 - 142	P 109.3	1.9	16
Siemens Dimension & Siemens Dimension Xpand	15	50 - 93	P 71.9	2.2	181 - 335	P 257.9	6.5	281 - 523	P 402.1	9.7	154 - 286	P 220.3	5.4	77 - 143	P 110.3	3.6	8
Siemens Dimension IFCC & Siemens Dimension EXL	16	51 - 94	P 72.2	2.9	183 - 340	P 261.7	5.8	287 - 533	P 410.0	10.3	156 - 290	P 223.4	5.4	77 - 144	P 110.7	3.4	33
Siemens Dimension IFCC & Siemens Dimension Xpand	17	50 - 93	P 71.7	2.4	182 - 338	P 260.2	6.1	286 - 532	P 409.0	9.4	155 - 288	P 221.9	4.6	77 - 142	P 109.5	2.4	11

#### Initial Grouping by Reagent

Abbott	18	51 - 95	P 73.0	2.1	194 - 359	P 276.5	3.9	306 - 567	P 436.5	5.9	164 - 305	P 234.7	3.8	81 - 151	P 115.8	1.7	16
Alfa Wassermann	19	49 - 91	P 70.2	6.0	167 - 311	P 239.0	7.5	256 - 475	P 365.6	7.7	144 - 268	P 206.4	4.8	75 - 139	P 107.0	4.7	5
Beckman Coulter	20	49 - 90	P 69.6	4.5	181 - 335	P 258.0	11.6	282 - 524	P 403.3	14.5	155 - 289	P 222.1	10.1	78 - 146	P 112.1	5.7	18
Beckman Olympus	21	42 - 77	P 59.6	3.7	164 - 305	P 234.6	11.7	257 - 478	P 367.6	19.0	140 - 259	P 199.5	10.3	69 - 128	P 98.7	5.3	33
Carolina	22	43 - 80	P 61.8	1.2	157 - 292	P 224.8	19.6	245 - 455	P 349.8	29.3	139 - 258	P 198.2	9.8	67 - 125	P 96.0	8.6	6
Ortho Vitros	23	50 - 94	P 72.0	4.4	149 - 276	P 212.4	9.8	203 - 378	P 290.6	14.6	131 - 243	P 187.2	9.4	71 - 132	P 101.4	5.5	29
Pointe Scientific	24	56 - 104	P 80.0	7.1	196 - 365	P 280.4	21.6	308 - 572	P 440.2	32.9	166 - 308	P 236.8	16.5	83 - 154	P 118.8	7.4	5
Roche Cobas	25	47 - 88	P 67.8	3.4	186 - 345	P 265.6	13.2	289 - 537	P 413.2	23.5	158 - 293	P 225.3	11.2	78 - 145	P 111.7	5.3	31
SDI Biomed	26	50 - 92	P 71.0	4.2	177 - 329	P 253.0	16.4	277 - 514	P 395.1	15.8	155 - 288	P 221.3	14.3	78 - 145	P 111.9	8.1	7
Siemens Advia	27	44 - 82	P 62.8	1.9	172 - 320	P 246.0	6.3	271 - 503	P 387.2	8.4	147 - 274	P 210.4	5.5	72 - 134	P 103.4	2.4	5
Siemens Dimension	28	50 - 93	P 71.7	1.8	182 - 338	P 259.7	5.2	284 - 528	P 406.0	8.1	155 - 288	P 221.9	4.7	77 - 142	P 109.6	2.6	28
Siemens Dimension IFCC	29	51 - 94	P 72.2	2.9	183 - 340	P 261.3	7.0	287 - 532	P 409.5	11.6	156 - 290	P 223.0	6.1	77 - 144	P 110.6	3.5	47

#### Initial Grouping by Sensitivity or Principle

IFCC standardized methods	30	50 - 92	P 71.0	3.6	184 - 341	P 262.6	10.9	288 - 534	P 410.9	17.8	157 - 291	P 224.0	9.0	78 - 145	P 111.2	4.5	147
High moderate recovery meth	31	51 - 94	P 72.6	5.6	160 - 298	P 228.9	26.8	232 - 431	P 331.8	58.4	140 - 260	P 199.9	21.1	74 - 137	P 105.6	8.6	46
Moderate recovery methods	32	42 - 78	P 60.3	4.4	163 - 303	P 232.9	13.6	255 - 473	P 363.8	22.6	140 - 259	P 199.3	10.1	69 - 128	P 98.3	6.0	40
Low moderate recovery meths	33	44 - 82	P 62.8	1.9	172 - 320	P 246.0	6.3	271 - 503	P 387.2	8.4	147 - 274	P 210.4	5.5	72 - 134	P 103.4	2.4	5

#### Total Population

Whole Population	34	49 - 90	P 69.4	6.8	176 - 326	P 250.8	21.7	271 - 502	P 386.5	47.5	150 - 279	P 214.8	17.4	76 - 142	P 109.1	16.2	243
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### Gamma-Glutamyltransferase (GGT)

#### Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	7 - 27	C 17.2	0.6	126 - 190	P 158.0	7.4	200 - 300	P 250.3	11.1	108 - 161	P 134.4	5.9	53 - 79	P 65.7	3.0	9
Alfa Wassermann & Alfa Wasser Axel/Alera	2	8 - 28	C 18.2	1.1	90 - 135	P 112.7	4.8	137 - 206	P 171.7	2.4	77 - 115	P 96.0	3.5	40 - 60	P 50.2	2.3	6
Beckman Coulter & Beck Coulter Unicel DXC	3	4 - 24	C 14.1	2.0	130 - 195	P 162.6	4.5	204 - 306	P 255.1	7.7	112 - 168	P 139.9	4.1	56 - 83	P 69.4	1.9	10
Beckman Olympus & Beck Olym AU 400/600/5400	4	4 - 24	C 13.8	0.8	99 - 148	P 123.4	5.8	154 - 232	P 193.1	8.9	84 - 127	P 105.5	5.0	41 - 62	P 51.8	2.5	17
Beckman Olympus & Beck Olympus AU 2700	5	5 - 25	C 14.8	1.3	101 - 152	P 126.5	1.7	154 - 231	P 192.5	2.9	87 - 131	P 109.0	2.3	43 - 65	P 53.8	1.5	4
Beckman Olympus & Beckman AU 480	6	4 - 24	C 14.0	0.0	101 - 151	P 125.8	1.7	156 - 234	P 195.4	3.6	85 - 128	P 106.6	2.1	42 - 63	P 52.3	1.1	8
Ortho Vitros & Ortho Vitros 3600, 5600	7	8 - 28	C 18.0	1.7	158 - 236	P 197.0	3.8	212 - 318	P 264.8	4.7	140 - 211	P 175.6	3.6	77 - 116	P 96.4	1.0	5
Ortho Vitros & Ortho Vitros not DT or ECI	8	8 - 28	C 18.4	0.9	160 - 239	P 199.5	12.4	214 - 321	P 267.6	18.8	143 - 215	P 178.9	11.7	79 - 119	P 98.9	5.3	8
Pointe Scientific & Beck Olym AU 400/600/5400	9	4 - 24	C 13.8	1.1	106 - 159	P 132.3	10.3	163 - 244	P 203.5	17.0	90 - 135	P 112.5	8.3	44 - 66	P 55.3	5.1	4
Roche Cobas & Roche Cobas 6000	10	6 - 26	C 15.5	0.5	114 - 171	P 142.3	3.2	179 - 268	P 223.7	5.3	97 - 146	P 121.3	2.7	47 - 71	P 59.3	1.8	6
Roche Cobas & Roche Cobas Integra	11	5 - 25	C 14.5	0.9	112 - 168	P 140.3	2.2	176 - 264	P 220.0	3.1	96 - 144	P 120.3	1.1	47 - 70	P 58.5	0.5	4
Roche Cobas & Roche e/c, 1XX, X000, Elec series	12	5 - 25	C 15.3	0.5	111 - 167	P 139.3	3.0	175 - 262	P 218.4	4.6	95 - 143	P 118.3	3.0	46 - 70	P 58.1	1.6	10
Siemens Dimension & Siemens Dimension EXL	13	16 - 36	C 25.9	2.0	146 - 219	P 182.2	4.4	224 - 335	P 279.5	5.5	125 - 188	P 156.5	3.4	64 - 96	P 80.4	2.3	22
Siemens Dimension & Siemens Dimension Xpand	14	16 - 36	C 26.2	2.2	147 - 220	P 183.2	5.0	225 - 337	P 281.0	7.5	126 - 189	P 157.6	5.0	64 - 96	P 80.2	2.5	5

#### Initial Grouping by Reagent

Abbott	15	7 - 27	C 17.2	0.6	126 - 190	P 158.0	7.4	200 - 300	P 250.3	11.1	108 - 161	P 134.4	5.9	53 - 79	P 65.7	3.0	9
Alfa Wassermann	16	8 - 28	C 18.2	1.1	90 - 135	P 112.7	4.8	137 - 206	P 171.7	2.4	77 - 115	P 96.0	3.5	40 - 60	P 50.2	2.3	6
Beckman Coulter	17	4 - 24	C 14.4	1.8	122 - 183	P 152.8	18.0	192 - 287	P 239.4	28.2	105 - 157	P 131.1	15.8	52 - 78	P 64.9	8.1	14
Beckman Olympus	18	4 - 24	C 14.0	0.9	100 - 150	P 124.6	4.7	155 - 233	P 193.8	7.1	85 - 128	P 106.4	4.2	42 - 63	P 52.3	2.2	30
Carolina	19	4 - 24	C 13.8	2.4	79 - 118	P 98.6	15.7	124 - 185	P 154.4	24.7	69 - 103	P 85.9	12.5	30 - 50	C 40.2	8.4	9
Ortho Vitros	20	8 - 28	C 18.3	1.3	159 - 238	P 198.7	9.9	214 - 321	P 267.5	14.2	142 - 213	P 177.8	9.1	78 - 117	P 97.7	4.1	16
Pointe Scientific	21	6 - 26	C 15.8	5.6	105 - 157	P 131.2	9.2	151 - 227	P 189.2	31.3	85 - 127	P 106.2	12.8	46 - 70	P 58.0	7.5	6
Roche Cobas	22	5 - 25	C 15.2	0.7	112 - 168	P 140.4	3.2	176 - 264	P 220.3	5.1	96 - 144	P 119.9	2.9	47 - 70	P 58.6	1.6	20
Siemens Dimension	23	16 - 36	C 25.7	2.0	146 - 219	P 182.3	4.3	224 - 336	P 279.9	5.7	125 - 188	P 156.8	3.6	64 - 96	P 80.2	2.2	31

#### Initial Grouping by Sensitivity or Principle

Moderate recovery methods	24	5 - 25	C 14.6	1.5	102 - 153	P 127.4	15.0	159 - 239	P 199.2	23.5	88 - 131	P 109.4	12.7	42 - 64	P 53.1	6.9	68
High recovery methods	25	6 - 26	C 15.8	2.3	124 - 186	P 155.4	14.5	196 - 293	P 244.4	22.9	106 - 159	P 132.8	12.5	52 - 79	P 65.6	6.5	25
Low moderate recovery meth	26	7 - 27	C 17.2	4.4	98 - 147	P 122.6	11.3	146 - 219	P 182.4	22.7	82 - 123	P 102.3	10.5	44 - 65	P 54.4	6.6	14
High moderate recovery meth	27	8 - 28	C 18.3	2.1	129 - 193	P 160.8	11.1	200 - 300	P 249.7	14.0	111 - 166	P 138.3	9.9	54 - 81	P 67.8	7.0	6
Very high recovery methods	28	13 - 33	C 23.2	4.0	150 - 225	P 187.9	10.3	221 - 331	P 275.9	11.0	131 - 197	P 164.0	11.6	69 - 103	P 85.9	8.7	47
<b>Total Population</b>																	
Whole Population	29	8 - 28	C 17.6	4.7	120 - 180	P 149.7	30.7	182 - 272	P 227.0	43.6	103 - 155	P 129.1	27.8	53 - 80	P 66.4	21.7	161

## Human Chorionic Gonadotropin (hCG)

### Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	0 - 2	C 1.0	0.0	853 - 1077	S 964.9	37.4	1347 - 1694	S 1520.6	57.7	723 - 899	S 811.0	29.4	325 - 395	S 360.4	11.7	10
Beckman Coulter Access & Beckman Coulter Access	2	0 - 6	S 1.0	1.6	987 - 1273	S 1129.9	47.8	1643 - 2813	S 2227.8	195.0	820 - 1107	S 963.3	47.9	370 - 509	S 439.7	23.1	27
Beckman Coulter Access & Beckman Coulter DxI	3	0 - 3	S 1.3	0.4	930 - 1237	S 1083.4	51.3	817 - 3269	S 2043.2	408.6	827 - 1049	S 938.0	36.9	357 - 481	S 419.0	20.7	5
Ortho Vitros ECI & Ortho Vitros 3600, 5600	4	1 - 4	S 2.3	0.5	892 - 1438	S 1165.0	91.0	1521 - 2084	S 1802.5	93.8	798 - 1161	S 979.8	60.5	361 - 510	S 435.5	24.7	8
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	5	0 - 7	S 1.6	1.7	1032 - 1168	S 1100.2	22.7	1603 - 1913	S 1758.2	51.6	847 - 1016	S 931.8	28.1	372 - 441	S 406.6	11.4	5
Roche Elecsys & Roche e411/e601/E170/E2010	6	0 - 1	C 0.0	0.0	873 - 1380	S 1126.5	84.4	1390 - 2096	S 1742.8	117.7	792 - 1106	S 949.1	52.3	355 - 503	S 429.1	24.6	14
Roche HCG Stat & Roche e411/e601/E170/E2010	7	0 - 2	S 0.7	0.5	726 - 983	S 854.6	42.7	1211 - 1577	S 1393.9	61.0	614 - 831	S 722.3	36.1	250 - 351	S 300.4	16.8	7
Roche HCG+b & Roche Cobas 6000	8	0 - 2	S 0.4	0.5	982 - 1249	S 1115.9	44.5	1579 - 2014	S 1796.4	72.4	827 - 1045	S 935.9	36.2	371 - 458	S 414.3	14.6	7
Roche HCG+b & Roche e/c, 1XX, X000, Elec series	9	0 - 2	S 0.8	0.4	768 - 1349	S 1058.3	96.9	1192 - 2221	S 1706.3	171.5	666 - 1150	S 908.0	80.6	287 - 507	S 396.8	36.7	4
Roche HCG+b & Roche e411/e601/E170/E2010	10	0 - 7	S 1.2	1.9	832 - 1364	S 1098.1	88.8	1312 - 2200	S 1756.0	147.8	370 - 1394	S 882.1	170.7	324 - 512	S 418.0	31.2	10
Siemens Advia & Siemens Centaur/Centaur CP	11	0 - 7	S 3.3	1.1	696 - 884	S 790.0	31.3	977 - 1969	S 1472.8	165.2	537 - 878	S 707.7	56.9	258 - 468	S 362.8	35.1	12
Siemens Dimension & Siemens Dimension EXL	12	0 - 2	S 0.4	0.5	730 - 1347	S 1038.5	102.7	1109 - 2185	S 1646.9	179.2	745 - 999	S 871.8	42.3	357 - 451	S 404.0	15.7	25
Siemens Dimension & Siemens Dimension Xpand	13	0 - 2	S 0.5	0.5	821 - 1286	S 1053.8	77.6	1375 - 2076	S 1725.3	116.9	755 - 990	S 872.7	39.1	362 - 446	S 404.0	14.2	6
Siemens Dimension LOCI & Siemens Dimension EXL	14	0 - 2	S 0.4	0.5	777 - 1392	S 1084.2	102.5	1425 - 2186	S 1805.4	126.7	778 - 1041	S 909.4	43.9	357 - 477	S 417.4	20.0	10
Siemens Immulite & Siemens Immulite 1000	15	0 - 2	C 1.0	0.2	1215 - 2098	S 1656.8	147.1	1947 - 3558	S 2752.6	268.5	970 - 1894	S 1431.6	154.0	506 - 797	S 651.7	48.5	29
Siemens Immulite 2000 & Siemens Immulite 2000	16	0 - 2	C 1.0	0.0	1270 - 1958	S 1613.7	114.6	1351 - 3747	S 2548.6	399.3	912 - 1929	S 1420.6	169.5	444 - 898	S 671.1	75.8	7
Tosoh Total b-hCG & Tosoh AIA	17	0 - 2	S 0.3	0.4	1210 - 1582	S 1395.8	61.9	1264 - 2872	S 2068.0	268.1	597 - 1805	S 1201.0	201.2	269 - 682	S 475.3	68.8	4
Tosoh Total b-hCG & Tosoh AIA ST	18	0 - 5	S 1.1	1.4	1146 - 1662	S 1404.3	86.0	1543 - 3258	S 2400.7	285.8	798 - 1646	S 1222.0	141.4	445 - 630	S 537.1	30.9	10
Tosoh beta-hCG & Tosoh AIA	19	0 - 9	S 2.4	2.2	856 - 1863	S 1359.4	167.9	1087 - 3216	S 2151.4	354.9	309 - 1899	S 1104.4	265.0	342 - 707	S 524.1	60.8	10
Tosoh beta-hCG & Tosoh AIA ST	20	0 - 6	S 1.6	1.6	948 - 1895	S 1421.5	157.8	1411 - 3105	S 2257.9	282.3	853 - 1471	S 1162.2	103.1	344 - 680	S 512.2	55.9	12
bioMerieux Vidas & bioMerieux mini Vidas/Vidas	21	0 - 6	S 2.3	1.3	723 - 1493	S 1108.0	128.3	935 - 2541	S 1737.8	267.7	664 - 1203	S 933.6	89.7	302 - 513	S 407.5	35.1	12

### Initial Grouping by Reagent

Abbott Architect	22	0 - 2	C 1.0	0.0	853 - 1077	S 964.9	37.4	1347 - 1694	S 1520.6	57.7	723 - 899	S 811.0	29.4	325 - 395	S 360.4	11.7	10
Beckman Coulter Access	23	0 - 5	S 1.0	1.4	960 - 1286	S 1122.9	54.4	1431 - 2934	S 2182.7	250.5	826 - 1095	S 960.1	44.8	367 - 504	S 435.7	22.8	36
Ortho Vitros ECI	24	1 - 3	S 2.2	0.4	862 - 1412	S 1137.0	91.7	1441 - 2081	S 1761.0	106.6	771 - 1147	S 959.0	62.6	334 - 512	S 423.3	29.7	11
Roche Elecsys	25	0 - 4	S 0.5	1.1	841 - 1381	S 1110.9	90.1	1367 - 2113	S 1739.8	124.4	740 - 1132	S 935.9	65.4	313 - 523	S 417.9	35.0	23
Roche HCG Stat	26	0 - 2	S 0.6	0.5	735 - 975	S 855.3	40.0	1222 - 1578	S 1400.1	59.4	621 - 824	S 722.3	33.8	253 - 348	S 300.3	15.7	8
Roche HCG+b	27	0 - 5	S 0.9	1.4	853 - 1340	S 1096.4	81.3	1349 - 2171	S 1760.0	137.0	524 - 1286	S 905.0	127.0	325 - 500	S 412.5	29.1	21
Siemens Advia	28	0 - 7	S 3.3	1.1	696 - 884	S 790.0	31.3	977 - 1969	S 1472.8	165.2	537 - 878	S 707.7	56.9	258 - 468	S 362.8	35.1	12
Siemens Dimension	29	0 - 2	S 0.4	0.5	746 - 1337	S 1041.5	98.5	1147 - 2177	S 1662.1	171.8	747 - 997	S 872.0	41.7	358 - 450	S 404.0	15.5	31
Siemens Dimension LOCI	30	0 - 2	S 0.5	0.5	793 - 1382	S 1087.2	98.2	1445 - 2173	S 1809.2	121.4	777 - 1055	S 915.6	46.3	360 - 477	S 418.6	19.5	11
Siemens Immulite	31	0 - 2	C 1.0	0.2	1127 - 2137	S 1631.8	168.4	1833 - 3579	S 2706.2	291.0	896 - 1922	S 1409.0	170.9	465 - 820	S 642.6	59.3	32
Siemens Immulite 2000	32	0 - 2	C 1.0	0.0	1218 - 1958	S 1588.0	123.4	1436 - 3711	S 2573.5	379.3	898 - 1902	S 1400.4	167.3	437 - 887	S 661.9	75.0	8
Tosoh Total b-hCG	33	0 - 5	S 0.9	1.3	1162 - 1642	S 1401.9	79.9	1350 - 3261	S 2305.6	318.5	733 - 1699	S 1216.0	161.0	373 - 673	S 522.8	50.0	14
Tosoh beta-hCG	34	0 - 8	S 1.9	1.9	840 - 1903	S 1371.6	177.3	1145 - 3191	S 2168.0	340.8	529 - 1712	S 1120.5	197.1	314 - 703	S 508.3	64.8	24
bioMerieux Vidas	35	0 - 6	S 2.3	1.3	723 - 1493	S 1108.0	128.3	935 - 2541	S 1737.8	267.7	664 - 1203	S 933.6	89.7	302 - 513	S 407.5	35.1	12

### Initial Grouping by Sensitivity or Principle

Moderate recovery methods	36	0 - 5	S 1.1	1.4	514 - 1648	S 1081.1	188.9	859 - 2613	S 1736.2	292.4	442 - 1372	S 906.8	155.0	231 - 593	S 412.0	60.3	153
High recovery methods	37	0 - 6	S 1.1	1.6	823 - 1864	S 1343.2	173.4	958 - 3438	S 2197.9	413.4	566 - 1766	S 1166.3	200.0	279 - 722	S 500.4	73.8	16
All other methods	38	0 - 5	S 1.2	1.4	930 - 1322	S 1126.2	65.4	1222 - 2946	S 2084.0	287.4	811 - 1109	S 959.9	49.6	357 - 508	S 432.8	25.2	47
Very high recovery methods	39	0 - 2	C 1.0	0.2	1138 - 2110	S 1623.7	162.0	1729 - 3627	S 2678.2	316.3	897 - 1918	S 1407.2	170.2	457 - 836	S 646.5	63.2	40
<b>Total Population</b>																	
Whole Population	40	0 - 236	S 6.0	76.6	383 - 1999	S 1191.2	269.3	484 - 3508	S 1996.4	504.0	299 - 1728	S 1013.5	238.3	0 - 2223	S 522.7	566.7	260

## Iron

### Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	189 - 284	P 236.6	5.4	116 - 175	P 145.6	2.6	176 - 264	P 219.8	3.6	101 - 152	P 126.8	2.1	57 - 86	P 71.3	1.6	11
Beck Oly tripyridyltriazine & Beck Olym AU 400/600/5400	2	198 - 297	P 247.1	5.7	126 - 189	P 157.8	4.0	193 - 290	P 241.3	6.0	109 - 164	P 136.5	3.1	61 - 91	P 75.8	2.2	8
Beckman Coulter & Beck Coulter Unicel DXC	3	185 - 278	P 231.6	3.0	118 - 177	P 147.4	1.8	179 - 269	P 224.3	3.5	103 - 154	P 128.2	2.8	56 - 84	P 69.9	1.2	9
Beckman Coulter & Beck Olym AU 400/600/5400	4	204 - 305	P 254.5	3.8	127 - 191	P 159.0	6.0	197 - 295	P 245.7	3.5	113 - 169	P 140.8	2.0	62 - 94	P 78.0	3.3	6
Beckman Coulter & Beckman AU 480	5	204 - 306	P 255.3	26.6	124 - 187	P 155.6	3.6	185 - 277	P 231.2	16.7	115 - 172	P 143.7	19.7	63 - 94	P 78.5	12.1	6

Beckman Olympus Ferene & Beck Olym AU 400/600/5400	6	199 - 299	P 248.8	8.3	125 - 187	P 156.1	6.8	192 - 287	P 239.4	7.6	108 - 162	P 135.2	6.7	60 - 90	P 75.3	5.5	9
Beckman Olympus Ferene & Beckman AU 480	7	200 - 300	P 250.3	7.8	129 - 194	P 161.3	6.3	195 - 292	P 243.3	7.2	112 - 167	P 139.5	4.5	62 - 94	P 78.0	3.7	4
Carolina & Beck Olym AU 400/600/5400	8	195 - 293	P 243.8	2.8	114 - 171	P 142.5	2.3	172 - 258	P 214.8	4.4	99 - 148	P 123.5	3.0	57 - 86	P 71.3	4.4	4
Carolina & Beckman Synchro CX3/7/9/L	9	196 - 293	P 244.4	26.2	125 - 188	P 156.4	7.9	181 - 272	P 226.8	17.5	104 - 156	P 130.2	9.0	60 - 90	P 75.2	5.9	5
Ortho Vitros & Ortho Vitros 3600, 5600	10	197 - 296	P 246.6	7.6	128 - 193	P 160.6	6.0	195 - 292	P 243.5	7.5	112 - 168	P 140.4	5.7	57 - 85	P 71.1	4.1	10
Ortho Vitros & Ortho Vitros 5,1 FS	11	201 - 302	P 251.3	6.1	132 - 199	P 165.5	4.7	201 - 302	P 251.8	5.8	112 - 167	P 139.5	4.2	59 - 88	P 73.5	6.3	4
Ortho Vitros & Ortho Vitros not DT or ECI	12	186 - 280	P 233.1	9.6	129 - 194	P 161.4	11.1	201 - 301	P 251.0	14.6	114 - 171	P 142.4	15.4	55 - 82	P 68.5	1.8	9
Roche Cobas & Roche Cobas 6000	13	191 - 286	P 238.3	6.3	122 - 183	P 152.5	4.6	182 - 272	P 227.0	5.7	106 - 160	P 133.1	4.2	61 - 92	P 76.3	4.3	10
Roche Cobas & Roche Cobas Integra	14	186 - 279	P 232.8	4.3	117 - 175	P 145.8	4.5	177 - 266	P 221.4	4.9	103 - 154	P 128.6	4.6	57 - 86	P 71.8	3.7	5
Roche Cobas & Roche e/c, 1XX, X000, Elec series	15	189 - 284	P 236.6	4.9	122 - 183	P 152.6	6.2	181 - 272	P 226.7	5.3	106 - 159	P 132.2	3.4	61 - 91	P 75.7	2.1	10
Siemens Advia Iron 2 & Siemens Advia	16	193 - 289	P 240.8	6.6	119 - 178	P 148.3	3.6	179 - 269	P 224.0	5.0	104 - 156	P 129.7	2.9	58 - 87	P 72.8	1.1	6
Siemens Dimension & Siemens Dim Rxl, Rxl Max	17	184 - 277	P 230.6	5.7	115 - 172	P 143.6	4.4	173 - 259	P 216.0	5.2	100 - 150	P 124.6	3.7	56 - 84	P 70.0	2.6	5
Siemens Dimension & Siemens Dimension EXL	18	187 - 280	P 233.3	2.9	116 - 174	P 145.4	1.6	175 - 263	P 219.3	2.4	102 - 152	P 127.0	1.4	57 - 86	P 71.6	0.9	29
Siemens Dimension & Siemens Dimension Xpand	19	184 - 277	P 230.5	2.8	115 - 173	P 144.0	1.3	174 - 261	P 217.3	1.9	101 - 151	P 125.9	1.4	57 - 85	P 71.0	1.0	8
Sterling Diagnostic & Other spectrophotometers	20	199 - 299	P 249.0	5.8	125 - 188	P 156.7	11.0	190 - 284	P 237.0	20.4	111 - 166	P 138.4	11.5	68 - 102	P 85.0	8.2	6

#### Initial Grouping by Reagent

Abbott Architect	21	189 - 284	P 236.6	5.4	116 - 175	P 145.6	2.6	176 - 264	P 219.8	3.6	101 - 152	P 126.8	2.1	57 - 86	P 71.3	1.6	11
Beck Oly tripyridyltriazine	22	200 - 300	P 249.6	6.1	127 - 190	P 158.6	3.6	193 - 290	P 241.6	5.6	110 - 165	P 137.4	3.0	61 - 92	P 76.7	2.4	12
Beckman Coulter	23	196 - 294	P 245.0	18.1	123 - 184	P 153.2	6.4	186 - 279	P 232.6	12.7	109 - 163	P 136.2	12.5	60 - 90	P 74.7	7.8	22
Beckman Olympus Ferene	24	199 - 298	P 248.3	8.0	126 - 188	P 156.9	6.9	192 - 288	P 240.0	7.7	109 - 163	P 135.8	6.5	60 - 91	P 75.5	5.0	17
Carolina	25	196 - 293	P 244.5	17.7	118 - 176	P 147.0	11.0	174 - 261	P 217.3	15.7	101 - 151	P 126.1	7.0	58 - 87	P 72.4	5.2	12
Ortho Vitros	26	194 - 291	P 242.5	11.0	129 - 194	P 161.8	8.4	198 - 297	P 247.9	11.3	113 - 169	P 141.0	10.5	56 - 85	P 70.6	4.4	23
Pointe Scientific	27	182 - 273	P 227.3	21.6	107 - 160	P 133.5	8.7	164 - 246	P 205.0	25.4	93 - 139	P 116.0	12.3	54 - 81	P 67.5	6.0	4
Roche Cobas	28	189 - 284	P 236.5	5.8	121 - 181	P 151.2	5.9	181 - 271	P 225.8	5.8	105 - 158	P 131.8	4.3	60 - 90	P 75.2	3.8	25
Siemens Advia Iron 2	29	193 - 289	P 240.8	6.6	119 - 178	P 148.3	3.6	179 - 269	P 224.0	5.0	104 - 156	P 129.7	2.9	58 - 87	P 72.8	1.1	6
Siemens Dimension	30	186 - 279	P 232.5	3.6	116 - 174	P 145.1	2.3	175 - 262	P 218.6	3.1	101 - 152	P 126.4	1.9	57 - 86	P 71.3	1.3	45
Sterling Diagnostic	31	197 - 296	P 246.3	13.0	123 - 185	P 154.0	13.0	186 - 279	P 232.5	21.3	108 - 162	P 134.7	13.7	66 - 99	P 82.9	10.4	8

#### Initial Grouping by Sensitivity or Principle

Ferene-based	32	190 - 285	P 237.5	10.4	118 - 176	P 147.0	8.1	177 - 266	P 221.4	12.9	102 - 153	P 127.6	6.6	58 - 86	P 71.9	4.3	90
Ferrozine-based	33	191 - 287	P 239.3	14.3	119 - 179	P 149.3	9.9	180 - 270	P 224.8	16.5	105 - 157	P 131.0	11.4	60 - 89	P 74.4	7.6	71
Tripyridyltriazine (TPTZ)	34	200 - 300	P 249.6	6.1	127 - 190	P 158.6	3.6	193 - 290	P 241.6	5.6	110 - 165	P 137.4	3.0	61 - 92	P 76.7	2.4	12
All other methods	35	194 - 291	P 242.5	11.0	129 - 194	P 161.8	8.4	198 - 297	P 247.9	11.3	113 - 169	P 141.0	10.5	56 - 85	P 70.6	4.4	23

#### Total Population

Whole Population	36	191 - 287	P 238.9	28.0	121 - 181	P 150.7	17.2	182 - 273	P 227.3	26.5	106 - 159	P 132.7	26.5	59 - 89	P 73.9	14.6	199
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### Lactic Acid

#### Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	0 - 0.5	C 0.22	0.13	3.7 - 6.2	P 4.96	0.07	5.7 - 9.4	P 7.54	0.36	3.2 - 5.3	P 4.2	0.17	1.8 - 3.1	P 2.45	0.1	8
Ortho Vitros & Ortho Vitros 3600, 5600	2	0.2 - 0.8	C 0.5	0.0	3.2 - 5.3	P 4.21	0.15	4.3 - 7.1	P 5.7	0.2	2.8 - 4.7	P 3.74	0.13	1.7 - 2.8	P 2.21	0.06	7
Siemens Dimension & Siemens Dimension EXL	3	0 - 0.5	C 0.23	0.12	3.7 - 6.2	P 4.95	0.12	5.5 - 9.2	P 7.39	0.21	3.3 - 5.4	P 4.35	0.13	1.9 - 3.1	P 2.49	0.1	33
Siemens Dimension & Siemens Dimension Xpand	4	0 - 0.5	C 0.21	0.12	3.7 - 6.2	P 4.95	0.16	5.6 - 9.3	P 7.4	0.27	3.3 - 5.4	P 4.35	0.17	1.9 - 3.1	P 2.49	0.09	8

#### Initial Grouping by Reagent

Abbott Architect	5	0 - 0.5	C 0.22	0.13	3.7 - 6.2	P 4.96	0.07	5.7 - 9.4	P 7.54	0.36	3.2 - 5.3	P 4.2	0.17	1.8 - 3.1	P 2.45	0.1	8
Ortho Vitros	6	0.2 - 0.8	C 0.5	0.0	3.2 - 5.3	P 4.24	0.19	4.3 - 7.2	P 5.78	0.28	2.8 - 4.7	P 3.76	0.15	1.7 - 2.8	P 2.22	0.11	12
Roche Cobas	7	0 - 0.5	C 0.16	0.08	3.8 - 6.3	P 5.0	0.11	5.5 - 9.2	P 7.34	0.05	3.3 - 5.5	P 4.42	0.07	1.9 - 3.2	P 2.56	0.05	5
Siemens Dimension	8	0 - 0.5	C 0.23	0.12	3.7 - 6.2	P 4.96	0.14	5.6 - 9.3	P 7.41	0.22	3.3 - 5.4	P 4.35	0.14	1.9 - 3.1	P 2.5	0.1	44

#### Initial Grouping by Sensitivity or Principle

Spectrophotometric-Other	9	0 - 0.5	C 0.2	0.14	3.7 - 6.2	P 4.96	0.07	5.6 - 9.4	P 7.49	0.37	3.2 - 5.3	P 4.2	0.16	1.8 - 3.1	P 2.44	0.1	9
Beckman methods	10	0 - 0.3	C 0.04	0.05	3.4 - 5.7	P 4.58	0.09	5.1 - 8.5	P 6.78	0.27	3.1 - 5.1	P 4.07	0.07	1.7 - 2.9	P 2.33	0.05	6
Other	11	0 - 0.5	C 0.2	0.21	3.4 - 5.7	P 4.57	0.42	5.0 - 8.3	P 6.67	0.85	3.1 - 5.1	P 4.07	0.34	1.7 - 2.9	P 2.33	0.17	4
luminometric	12	0 - 0.6	C 0.28	0.16	3.6 - 6.0	P 4.8	0.33	5.3 - 8.8	P 7.07	0.71	3.2 - 5.3	P 4.23	0.28	1.8 - 3.0	P 2.44	0.16	57
Roche methods	13	0 - 0.5	C 0.16	0.08	3.8 - 6.3	P 5.0	0.11	5.5 - 9.2	P 7.34	0.05	3.3 - 5.5	P 4.42	0.07	1.9 - 3.2	P 2.56	0.05	5

#### Total Population

Whole Population	14	0 - 0.6	C 0.27	0.25	3.9 - 6.4	P 5.16	3.78	5.8 - 9.6	P 7.7	5.46	3.4 - 5.7	P 4.58	3.27	2.0 - 3.3	P 2.64	1.86	81
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### Lactate Dehydrogenase, Total (LDH)

#### Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	87 - 131	P 109.0	19.6	367 - 551	P 458.8	6.6	598 - 897	P 747.6	11.1	308 - 462	P 384.8	4.9	138 - 207	P 172.6	3.5	5
Abbott Architect & Abbott Architect c, ci, i	2	76 - 114	P 95.2	6.1	364 - 546	P 455.3	15.7	593 - 889	P 740.8	21.6	309 - 464	P 386.7	15.2	137 - 206	P 171.8	6.9	6
Alfa Wassermann & Alfa Wasser Axcel/Alera	3	53 - 80	P 66.8	5.5	245 - 367	P 305.8	8.6	392 - 588	P 489.8	4.5	210 - 315	P 262.3	4.4	99 - 149	P 124.3	6.2	4

Beckman Coulter & Beck Coult Unicel DXC	4	62 - 93	P 77.7	4.1	307 - 461	P 384.3	12.9	483 - 725	P 604.3	15.0	261 - 391	P 326.2	10.3	121 - 182	P 151.8	6.8	9
Beckman Olympus & Beck Olym AU 400/600/5400	5	65 - 97	P 80.8	4.7	304 - 456	P 380.2	18.0	491 - 737	P 614.0	28.5	256 - 385	P 320.5	15.4	115 - 173	P 143.9	7.4	14
Beckman Olympus & Beck Olympus AU 2700	6	73 - 109	P 90.8	5.1	322 - 484	P 403.0	19.9	521 - 782	P 651.3	28.9	273 - 409	P 340.8	14.0	124 - 187	P 155.5	9.1	4
Beckman Olympus & Beckman AU 480	7	66 - 99	P 82.5	4.4	307 - 461	P 383.8	11.2	498 - 747	P 622.8	23.6	258 - 387	P 322.3	15.2	116 - 174	P 145.0	9.1	6
Ortho Vitros & Ortho Vitros 3600, 5600	8	201 - 302	P 251.7	14.0	1179 - 1768	P 1473.3	38.9	1856 - 2784	P 2319.6	146.9	983 - 1474	P 1228.5	23.0	457 - 685	P 570.8	21.4	10
Ortho Vitros & Ortho Vitros not DT or ECI	9	193 - 290	P 241.6	15.5	1184 - 1776	P 1479.6	46.0	1832 - 2747	P 2289.5	162.5	985 - 1477	P 1231.2	28.3	456 - 684	P 570.1	18.2	14
Roche Cobas & Roche Cobas 6000	10	78 - 116	P 97.0	4.0	358 - 537	P 447.3	8.4	575 - 862	P 718.3	11.3	302 - 453	P 377.6	6.3	136 - 204	P 170.4	3.7	7
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	79 - 118	P 98.6	5.1	361 - 541	P 451.1	18.4	581 - 872	P 726.7	31.8	306 - 458	P 382.0	15.2	137 - 206	P 171.3	6.5	7
Siemens Advia & Siemens Advia	12	78 - 116	P 97.0	3.9	367 - 551	P 458.8	13.3	587 - 881	P 733.8	13.1	314 - 470	P 392.0	11.9	143 - 215	P 178.8	4.3	4
Siemens Dimension & Siemens Dimension EXL	13	76 - 114	P 95.3	4.0	347 - 520	P 433.5	12.1	563 - 844	P 703.7	14.9	293 - 439	P 365.8	9.0	133 - 200	P 166.3	5.8	6
Siemens Dimension & Siemens Dimension Xpand	14	76 - 114	P 94.8	3.5	342 - 513	P 427.2	8.7	558 - 836	P 697.0	18.7	289 - 434	P 361.4	9.5	130 - 194	P 162.0	3.1	5
Siemens Flex LDI & Siemens Dimension EXL	15	77 - 116	P 96.8	5.5	350 - 526	P 438.1	13.3	570 - 854	P 712.0	23.1	296 - 444	P 369.6	11.1	134 - 201	P 167.5	7.6	30
Siemens Flex LDI & Siemens Dimension Xpand	16	79 - 119	P 99.3	5.8	360 - 540	P 449.8	18.4	585 - 877	P 730.8	22.6	305 - 457	P 381.0	13.9	136 - 204	P 170.3	7.7	4

**Initial Grouping by Reagent**

Abbott	17	87 - 131	P 109.0	19.6	367 - 551	P 458.8	6.6	598 - 897	P 747.6	11.1	308 - 462	P 384.8	4.9	138 - 207	P 172.6	3.5	5
Abbott Architect	18	76 - 114	P 95.2	6.1	364 - 546	P 455.3	15.7	593 - 889	P 740.8	21.6	309 - 464	P 386.7	15.2	137 - 206	P 171.8	6.9	6
Alfa Wassermann	19	53 - 80	P 66.8	5.5	245 - 367	P 305.8	8.6	392 - 588	P 489.8	4.5	210 - 315	P 262.3	4.4	99 - 149	P 124.3	6.2	4
Beckman Coulter	20	63 - 94	P 78.6	3.6	305 - 458	P 381.5	13.8	484 - 725	P 604.4	12.9	260 - 390	P 324.6	9.7	119 - 179	P 149.0	6.8	14
Beckman Olympus	21	66 - 100	P 83.1	5.9	308 - 462	P 385.1	18.5	498 - 747	P 622.5	29.9	260 - 390	P 325.2	17.0	117 - 176	P 146.4	9.1	25
Carolina	22	59 - 88	P 73.7	10.3	279 - 418	P 348.7	36.2	443 - 665	P 554.3	61.9	240 - 359	P 299.4	30.8	110 - 165	P 137.3	12.3	7
Ortho Vitros	23	196 - 294	P 245.0	16.3	1184 - 1776	P 1480.0	43.0	1857 - 2785	P 2321.1	156.7	986 - 1480	P 1233.1	29.1	456 - 684	P 570.4	19.6	27
Roche Cobas	24	78 - 116	P 97.0	6.1	357 - 536	P 446.8	16.6	572 - 859	P 715.5	30.0	303 - 455	P 378.8	13.1	137 - 206	P 171.5	5.9	18
Roche Cobas Integra	25	81 - 121	P 100.8	1.5	375 - 563	P 469.0	6.7	589 - 884	P 736.3	17.9	317 - 476	P 396.3	8.3	146 - 218	P 182.0	4.8	4
Siemens Advia	26	78 - 116	P 97.0	3.9	367 - 551	P 458.8	13.3	587 - 881	P 733.8	13.1	314 - 470	P 392.0	11.9	143 - 215	P 178.8	4.3	4
Siemens Dimension	27	76 - 114	P 95.2	3.9	345 - 518	P 431.3	11.2	562 - 842	P 701.9	17.4	292 - 437	P 364.5	9.7	132 - 197	P 164.5	5.5	13
Siemens Flex LDI	28	77 - 116	P 96.8	5.6	352 - 529	P 440.6	14.6	573 - 860	P 716.3	24.0	298 - 446	P 372.0	12.2	135 - 202	P 168.2	7.6	37

**Initial Grouping by Sensitivity or Principle**

Moderate recovery methods	29	77 - 115	P 96.0	9.2	353 - 530	P 441.3	36.0	567 - 851	P 709.1	39.2	295 - 443	P 368.9	18.8	133 - 200	P 166.4	9.4	67
Low recovery methods	30	57 - 85	P 71.2	9.5	266 - 400	P 333.1	35.9	425 - 637	P 530.8	58.4	229 - 343	P 285.9	30.5	106 - 159	P 132.5	12.3	11
Low moderate recovery meths	31	67 - 100	P 83.4	10.8	309 - 463	P 385.9	22.2	496 - 743	P 619.4	33.7	262 - 393	P 327.7	20.6	119 - 178	P 148.6	11.0	43
All other methods	32	196 - 294	P 245.0	16.3	1184 - 1776	P 1480.0	43.0	1857 - 2785	P 2321.1	156.7	986 - 1480	P 1233.1	29.1	456 - 684	P 570.4	19.6	27
All IFCC Methods	33	78 - 117	P 97.7	5.7	361 - 541	P 450.9	17.5	575 - 863	P 719.3	29.3	306 - 458	P 382.0	14.1	139 - 208	P 173.4	7.0	22
High moderate recovery meth	34	78 - 117	P 97.3	3.3	377 - 566	P 471.5	22.3	597 - 896	P 746.7	22.0	319 - 479	P 399.3	15.1	149 - 223	P 185.7	14.5	6

**Total Population**

Whole Population	35	92 - 137	P 114.5	57.0	463 - 695	P 579.3	386.2	733 - 1099	P 915.9	591.7	391 - 587	P 489.1	318.5	186 - 280	P 233.0	211.3	177
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**Lipase**

**Initial Grouping by Reagent and Instrument**

Abbot Architect & Abbott Architect c, ci, i	1	11 - 21	P 15.8	1.7	31 - 57	P 43.7	2.6	43 - 80	P 61.9	3.8	27 - 51	P 39.2	2.3	17 - 32	P 24.7	1.5	11
Beckman LIP & Beck Coult Unicel DXC	2	27 - 50	P 38.5	3.0	31 - 57	P 44.0	2.6	38 - 70	P 53.6	3.1	30 - 55	P 42.4	2.7	23 - 42	P 32.5	2.4	10
Beckman Olympus & Beck Olym AU 400/600/5400	3	10 - 18	P 13.9	1.9	29 - 55	P 42.1	2.8	42 - 78	P 59.8	4.5	26 - 49	P 37.7	2.6	16 - 30	P 23.0	2.3	15
Beckman Olympus & Beckman AU 480	4	9 - 17	P 13.4	2.0	28 - 53	P 40.5	3.8	40 - 74	P 56.6	4.6	25 - 47	P 36.0	3.2	16 - 29	P 22.5	2.5	10
Ortho Vitros & Ortho Vitros 3600, 5600	5	145 - 270	P 207.5	10.4	364 - 676	P 520.0	12.5	476 - 884	P 680.1	15.3	330 - 612	P 470.8	13.3	211 - 393	P 302.0	8.8	12
Ortho Vitros & Ortho Vitros not DT or ECI	6	155 - 288	P 221.3	8.6	371 - 689	P 530.0	14.5	482 - 895	P 688.8	13.1	340 - 632	P 485.8	14.0	224 - 416	P 320.1	8.6	12
Roche Cobas Integra & Roche Cobas 6000	7	8 - 15	P 11.2	0.7	29 - 55	P 42.0	1.3	41 - 76	P 58.8	2.1	27 - 49	P 38.0	1.8	18 - 33	P 25.2	1.5	5
Roche Cobas Integra & Roche Cobas Integra	8	9 - 17	P 13.3	1.1	33 - 61	P 46.8	2.6	45 - 83	P 64.0	3.1	29 - 54	P 41.7	2.3	19 - 36	P 27.6	1.6	10
Roche Cobas Integra & Roche e/c, 1XX, X000, Elec series	9	8 - 15	P 11.3	1.1	30 - 55	P 42.5	2.3	41 - 76	P 58.3	3.3	27 - 49	P 38.0	1.9	18 - 33	P 25.3	1.1	4
Roche/Hitachi & Roche e/c, 1XX, X000, Elec series	10	7 - 14	P 10.5	0.5	29 - 54	P 41.3	0.4	40 - 74	P 57.0	0.7	26 - 48	P 37.3	0.4	17 - 32	P 24.3	0.4	4
Siemens Advia & Siemens Advia	11	15 - 28	P 21.5	0.9	40 - 74	P 56.8	2.2	56 - 104	P 80.3	2.0	36 - 67	P 51.5	2.9	24 - 45	P 34.5	1.1	4
Siemens Dimension & Siemens Dimension EXL	12	36 - 66	P 50.9	3.0	131 - 244	P 187.4	7.8	182 - 337	P 259.6	9.7	119 - 222	P 170.5	6.4	78 - 146	P 112.1	5.8	8
Siemens Dimension & Siemens Dimension Xpand	13	36 - 67	P 51.6	3.9	126 - 233	P 179.6	4.6	176 - 326	P 250.8	8.8	114 - 211	P 162.2	4.9	74 - 138	P 106.4	4.9	5
Siemens LIPL, liquid & Siemens Dimension EXL	14	36 - 67	P 51.5	3.1	130 - 242	P 186.1	6.3	179 - 333	P 256.2	7.9	117 - 217	P 167.1	6.4	77 - 143	P 110.2	4.2	35
Siemens LIPL, liquid & Siemens Dimension Xpand	15	36 - 66	P 50.7	4.1	128 - 238	P 183.0	5.4	177 - 328	P 252.6	7.8	116 - 215	P 165.3	6.1	76 - 142	P 109.1	5.7	9

**Initial Grouping by Reagent**

Abbot Architect	16	11 - 21	P 15.8	1.7	31 - 57	P 43.7	2.6	43 - 80	P 61.9	3.8	27 - 51	P 39.2	2.3	17 - 32	P 24.7	1.5	11
Beckman LIP	17	27 - 50	P 38.5	3.0	31 - 57	P 44.0	2.6	38 - 70	P 53.6	3.1	30 - 55	P 42.4	2.7	23 - 42	P 32.5	2.4	10
Beckman Olympus	18	10 - 18	P 13.8	1.9	29 - 54	P 41.7	3.4	41 - 76	P 58.8	4.8	26 - 48	P 37.3	3.0	16 - 30	P 22.9	2.3	27
Carolina	19	29 - 54	P 41.4	12.0	36 - 66	P 51.0	3.4	39 - 72	P 55.1	6.2	35 - 65	P 50.3	3.6	29 - 55	P 42.1	6.0	7
Ortho Vitros	20	150 - 278	P 214.1	11.2	368 - 684	P 526.4	14.2	480 - 892	P 686.3	15.5	336 - 623	P 479.3	14.8	218 - 405	P 311.7	12.3	28
Roche Cobas Integra	21	9 - 16	P 12.3	1.5	31 - 58	P 44.6	3.2	43 - 80	P 61.4	4.0	28 - 52	P 39.9	2.8	19 - 34	P 26.5	1.9	19
Roche/Hitachi	22	8 - 14	P 11.0	0.8	30 - 56	P 42.7	2.1	41 - 76	P 58.7	2.8	27 - 50	P 38.6	2.0	18 - 33	P 25.1	1.4	7

Siemens Advia	23	15 - 28	P 21.5	0.9	40 - 74	P 56.8	2.2	56 - 104	P 80.3	2.0	36 - 67	P 51.5	2.9	24 - 45	P 34.5	1.1	4
Siemens Dimension	24	36 - 66	P 51.1	3.2	128 - 238	P 183.1	8.7	179 - 333	P 256.3	9.6	116 - 216	P 166.0	8.4	76 - 141	P 108.8	7.0	15
Siemens LIPL, liquid	25	36 - 67	P 51.4	3.7	130 - 242	P 186.1	7.7	180 - 334	P 256.7	10.7	117 - 217	P 167.3	6.8	77 - 143	P 110.1	4.7	48

**Initial Grouping bySensitivityor Principle**

Enzymatic/colorimetric	26	52 - 96	P 74.0	74.0	148 - 276	P 212.1	172.5	200 - 371	P 285.1	222.3	134 - 250	P 192.0	157.4	88 - 163	P 125.3	103.0	135
Colorimetric	27	13 - 24	P 18.7	12.0	31 - 58	P 44.7	8.4	41 - 76	P 58.1	5.8	32 - 60	P 45.9	41.6	20 - 37	P 28.1	7.8	42
All other methods	28	30 - 56	P 43.1	11.4	37 - 68	P 52.4	4.8	41 - 76	P 58.3	8.5	36 - 66	P 51.1	4.2	29 - 55	P 42.1	5.6	9

**Total Population**

Whole Population	29	41 - 77	P 59.2	66.9	115 - 214	P 164.7	163.9	154 - 287	P 220.6	213.9	105 - 196	P 150.5	149.6	69 - 128	P 98.1	96.8	189
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**Magnesium mg/dL**

**Initial Grouping byReagent and Instrument**

Abbott & Abbott Architect c, ci, i	1	1.1 - 1.8	P 1.41	0.11	2.5 - 4.2	P 3.36	0.13	3.6 - 5.9	P 4.74	0.18	2.2 - 3.7	P 2.99	0.11	1.4 - 2.4	P 1.9	0.07	17
Alfa Wassermann & Alfa Wasser Acela/Alera	2	0.8 - 1.4	P 1.08	0.16	2.3 - 3.8	P 3.03	0.13	3.3 - 5.5	P 4.38	0.16	2.2 - 3.7	P 2.92	0.12	1.4 - 2.4	P 1.88	0.07	5
Beckman Coulter & Beck Coulter Unicel DXC	3	0.9 - 1.5	P 1.19	0.05	2.4 - 4.1	P 3.26	0.08	3.5 - 5.8	P 4.64	0.11	2.2 - 3.7	P 2.93	0.07	1.4 - 2.4	P 1.91	0.05	14
Beckman Coulter & Beckman AU 480	4	0.9 - 1.5	P 1.18	0.04	2.4 - 4.0	P 3.22	0.08	3.5 - 5.8	P 4.6	0.17	2.2 - 3.7	P 2.95	0.09	1.4 - 2.4	P 1.9	0.07	4
Beckman Olympus & Beck Olym AU 400/600/5400	5	0.9 - 1.5	P 1.21	0.06	2.5 - 4.2	P 3.37	0.08	3.6 - 6.0	P 4.76	0.13	2.3 - 3.8	P 3.01	0.09	1.5 - 2.5	P 1.97	0.07	19
Beckman Olympus & Beck Olympus AU 2700	6	0.9 - 1.5	P 1.23	0.04	2.5 - 4.1	P 3.3	0.12	3.5 - 5.8	P 4.63	0.18	2.3 - 3.8	P 3.0	0.07	1.5 - 2.4	P 1.95	0.05	4
Beckman Olympus & Beckman AU 480	7	0.9 - 1.5	P 1.23	0.05	2.5 - 4.2	P 3.34	0.12	3.6 - 6.0	P 4.79	0.1	2.3 - 3.9	P 3.08	0.04	1.5 - 2.5	P 1.99	0.05	10
Horiba ABX & Horiba ABX 400	8	0.9 - 1.5	P 1.2	0.0	2.5 - 4.2	P 3.33	0.08	3.3 - 5.6	P 4.45	0.15	2.2 - 3.7	P 2.98	0.04	1.5 - 2.4	P 1.95	0.05	4
Ortho Vitros & Ortho Vitros 3600, 5600	9	0.8 - 1.4	P 1.08	0.06	2.6 - 4.4	P 3.48	0.06	3.6 - 6.0	P 4.78	0.08	2.3 - 3.9	P 3.13	0.07	1.5 - 2.6	P 2.06	0.05	12
Ortho Vitros & Ortho Vitros 5,1 FS	10	0.9 - 1.4	P 1.14	0.05	2.7 - 4.4	P 3.54	0.1	3.7 - 6.1	P 4.88	0.13	2.4 - 4.0	P 3.16	0.08	1.6 - 2.6	P 2.1	0.09	5
Ortho Vitros & Ortho Vitros not DT or ECI	11	0.9 - 1.4	P 1.14	0.06	2.7 - 4.4	P 3.55	0.08	3.7 - 6.1	P 4.88	0.11	2.4 - 4.0	P 3.21	0.09	1.6 - 2.7	P 2.13	0.07	18
Pointe Scientific & Beck Olym AU 400/600/5400	12	1.0 - 1.7	P 1.35	0.15	2.6 - 4.4	P 3.5	0.17	3.3 - 5.5	P 4.43	0.24	2.4 - 4.0	P 3.2	0.24	1.5 - 2.5	P 2.03	0.11	4
Roche Cobas & Roche Cobas 6000	13	1.0 - 1.6	P 1.27	0.04	2.6 - 4.3	P 3.44	0.08	3.6 - 6.0	P 4.83	0.11	2.3 - 3.9	P 3.08	0.06	1.5 - 2.5	P 2.03	0.04	11
Roche Cobas & Roche Cobas Integra	14	0.9 - 1.5	P 1.24	0.05	2.5 - 4.2	P 3.37	0.05	3.4 - 5.7	P 4.59	0.08	2.2 - 3.7	P 2.99	0.06	1.5 - 2.5	P 2.0	0.0	8
Roche Cobas & Roche e/c, 1XX, X000, Elec series	15	0.9 - 1.6	P 1.24	0.05	2.6 - 4.3	P 3.41	0.11	3.6 - 6.0	P 4.76	0.16	2.3 - 3.8	P 3.05	0.13	1.5 - 2.5	P 1.99	0.08	14
Siemens Advia & Siemens Advia	16	0.9 - 1.5	P 1.22	0.04	2.5 - 4.1	P 3.3	0.06	3.4 - 5.6	P 4.52	0.1	2.2 - 3.7	P 2.98	0.04	1.5 - 2.5	P 2.0	0.0	5
Siemens Dimension & Siemens Dim RXL, RXL Max	17	0.9 - 1.5	P 1.2	0.05	2.6 - 4.3	P 3.41	0.06	3.7 - 6.1	P 4.91	0.1	2.3 - 3.9	P 3.1	0.08	1.5 - 2.4	P 1.96	0.07	7
Siemens Dimension & Siemens Dimension EXL	18	0.9 - 1.5	P 1.18	0.07	2.5 - 4.2	P 3.37	0.08	3.6 - 6.1	P 4.85	0.1	2.3 - 3.8	P 3.03	0.08	1.5 - 2.4	P 1.96	0.07	47
Siemens Dimension & Siemens Dimension Xpand	19	0.9 - 1.5	P 1.17	0.06	2.5 - 4.2	P 3.38	0.11	3.6 - 6.0	P 4.81	0.11	2.3 - 3.8	P 3.03	0.08	1.5 - 2.4	P 1.95	0.07	19

**Initial Grouping byReagent**

Abbott	20	1.1 - 1.8	P 1.41	0.11	2.5 - 4.2	P 3.36	0.13	3.6 - 5.9	P 4.74	0.18	2.2 - 3.7	P 2.99	0.11	1.4 - 2.4	P 1.9	0.07	17
Alfa Wassermann	21	0.8 - 1.4	P 1.08	0.16	2.3 - 3.8	P 3.03	0.13	3.3 - 5.5	P 4.38	0.16	2.2 - 3.7	P 2.92	0.12	1.4 - 2.4	P 1.88	0.07	5
Beckman Coulter	22	0.9 - 1.5	P 1.19	0.04	2.5 - 4.1	P 3.27	0.09	3.5 - 5.8	P 4.65	0.14	2.2 - 3.7	P 2.95	0.08	1.4 - 2.4	P 1.92	0.06	21
Beckman Olympus	23	0.9 - 1.5	P 1.22	0.06	2.5 - 4.2	P 3.35	0.1	3.6 - 5.9	P 4.75	0.14	2.3 - 3.8	P 3.03	0.08	1.5 - 2.5	P 1.97	0.06	33
Carolina	24	1.1 - 1.9	P 1.5	0.19	2.4 - 4.0	P 3.19	0.23	3.3 - 5.5	P 4.38	0.35	2.2 - 3.7	P 2.98	0.23	1.5 - 2.4	P 1.94	0.22	9
Horiba ABX	25	0.9 - 1.5	P 1.2	0.0	2.5 - 4.2	P 3.33	0.08	3.3 - 5.6	P 4.45	0.15	2.2 - 3.7	P 2.98	0.04	1.5 - 2.4	P 1.95	0.05	4
Ortho Vitros	26	0.8 - 1.4	P 1.12	0.06	2.6 - 4.4	P 3.53	0.08	3.6 - 6.1	P 4.84	0.11	2.4 - 4.0	P 3.17	0.09	1.6 - 2.6	P 2.1	0.08	35
Pointe Scientific	27	1.0 - 1.7	P 1.32	0.15	2.6 - 4.3	P 3.44	0.2	3.4 - 5.6	P 4.48	0.24	2.4 - 3.9	P 3.14	0.25	1.5 - 2.5	P 2.0	0.11	5
Roche Cobas	28	0.9 - 1.6	P 1.25	0.05	2.6 - 4.3	P 3.41	0.09	3.6 - 5.9	P 4.74	0.16	2.3 - 3.8	P 3.05	0.1	1.5 - 2.5	P 2.0	0.06	33
Sekisui	29	1.0 - 1.7	P 1.33	0.11	2.5 - 4.2	P 3.38	0.15	3.6 - 6.0	P 4.8	0.23	2.2 - 3.7	P 2.98	0.15	1.5 - 2.6	P 2.04	0.14	5
Siemens Advia	30	0.9 - 1.5	P 1.22	0.04	2.5 - 4.1	P 3.3	0.06	3.4 - 5.6	P 4.52	0.1	2.2 - 3.7	P 2.98	0.04	1.5 - 2.5	P 2.0	0.0	5
Siemens Dimension	31	0.9 - 1.5	P 1.18	0.07	2.5 - 4.2	P 3.38	0.09	3.6 - 6.1	P 4.85	0.11	2.3 - 3.8	P 3.04	0.09	1.5 - 2.4	P 1.96	0.07	76

**Initial Grouping bySensitivityor Principle**

Arsenazo	32	1.1 - 1.8	P 1.43	0.14	2.5 - 4.1	P 3.32	0.19	3.5 - 5.8	P 4.64	0.3	2.2 - 3.7	P 2.99	0.15	1.4 - 2.4	P 1.92	0.14	27
Magon (Xylidyl Blue)-based	33	0.9 - 1.5	P 1.21	0.1	2.5 - 4.1	P 3.32	0.14	3.5 - 5.8	P 4.65	0.24	2.2 - 3.7	P 2.99	0.11	1.5 - 2.5	P 1.97	0.12	58
Calmagite-based	34	0.9 - 1.5	P 1.22	0.09	2.5 - 4.1	P 3.3	0.14	3.5 - 5.8	P 4.62	0.18	2.2 - 3.7	P 2.98	0.15	1.4 - 2.4	P 1.93	0.08	26
All other methods	35	0.9 - 1.5	P 1.18	0.09	2.6 - 4.3	P 3.47	0.1	3.6 - 6.0	P 4.79	0.15	2.3 - 3.9	P 3.11	0.12	1.5 - 2.6	P 2.05	0.09	68
MTB (methylthymol blue)	36	0.9 - 1.5	P 1.18	0.07	2.5 - 4.2	P 3.38	0.09	3.6 - 6.1	P 4.85	0.11	2.3 - 3.8	P 3.04	0.09	1.5 - 2.4	P 1.96	0.07	76

**Total Population**

Whole Population	37	0.9 - 1.5	P 1.23	0.17	2.5 - 4.2	P 3.36	0.2	3.5 - 5.9	P 4.72	0.33	2.3 - 3.8	P 3.03	0.15	1.5 - 2.5	P 1.99	0.21	256
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**Magnesium mEq/L**

**Initial Grouping byReagent and Instrument**

Roche Cobas & Roche Cobas Integra	1	0.8 - 1.3	P 1.08	0.04	2.1 - 3.6	P 2.85	0.05	2.9 - 4.9	P 3.93	0.04	1.9 - 3.2	P 2.53	0.04	1.3 - 2.1	P 1.7	0.0	4
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**Initial Grouping byReagent**

Roche Cobas	2	0.8 - 1.3	P 1.08	0.04	2.1 - 3.6	P 2.85	0.05	2.9 - 4.9	P 3.93	0.04	1.9 - 3.2	P 2.53	0.04	1.3 - 2.1	P 1.7	0.0	4
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**Initial Grouping bySensitivityor Principle**

Magon (Xylidyl Blue)-based	3	0.8 - 1.3	P 1.06	0.08	2.0 - 3.3	P 2.65	0.21	2.8 - 4.6	P 3.72	0.27	2.1 - 3.5	P 2.83	0.67	1.2 - 2.0	P 1.62	0.12	6
All other methods	4	0.8 - 1.3	P 1.08	0.04	2.1 - 3.6	P 2.85	0.05	2.9 - 4.9	P 3.93	0.04	1.9 - 3.2	P 2.53	0.04	1.3 - 2.1	P 1.7	0.0	4

Total Population																		
Whole Population	5	0.9 - 1.5	P 1.21	0.4	2.1 - 3.4	P 2.74	0.18	2.9 - 4.8	P 3.82	0.22	2.0 - 3.3	P 2.67	0.5	1.2 - 2.1	P 1.65	0.1	12	
<b>Thyroid Stimulating Hormone</b>																		
<b>Initial Grouping by Reagent and Instrument</b>																		
Abbott Cmia & Abbott Architect c, ci, i	1	0 - 0.1	S 0.02	0.04	4.6 - 6.9	S 5.71	0.38	6.4 - 8.6	S 7.5	0.35	4.3 - 5.8	S 5.09	0.25	2.6 - 3.6	S 3.1	0.17	26	
Beckman Coulter Access & Beckman Coulter Access	2	0 - 0.3	S 0.06	0.07	5.1 - 7.3	S 6.21	0.37	6.4 - 10.2	S 8.3	0.62	4.4 - 6.5	S 5.46	0.35	2.6 - 3.8	S 3.21	0.2	63	
Beckman Coulter Access & Beckman Coulter Dxl	3	0 - 0.2	S 0.07	0.04	5.3 - 7.2	S 6.25	0.31	7.3 - 9.7	S 8.48	0.39	4.8 - 6.3	S 5.58	0.26	2.6 - 3.7	S 3.18	0.18	12	
MP Biomedicals & All gamma counters	4	0 - 1.2	S 0.62	0.19	7.0 - 9.1	S 8.04	0.34	8.1 - 13.1	S 10.62	0.84	6.5 - 9.6	S 8.05	0.53	3.8 - 5.7	S 4.72	0.31	14	
NanoEnTek FREND & NanoEnTek FREND	5	0 - 0.7	S 0.13	0.19	3.6 - 7.4	S 5.46	0.63	7.1 - 14.3	S 10.7	1.21	2.6 - 6.1	S 4.38	0.58	1.4 - 3.0	S 2.23	0.26	8	
Ortho Vitros & Ortho Vitros 3600, 5600	6	0 - 0.3	S 0.08	0.06	6.9 - 8.1	S 7.52	0.19	9.3 - 11.5	S 10.4	0.36	5.8 - 7.4	S 6.59	0.28	3.4 - 4.3	S 3.85	0.14	12	
Ortho Vitros & Ortho Vitros Eci	7	0 - 0.2	S 0.04	0.07	7.0 - 8.0	S 7.49	0.15	9.6 - 10.9	S 10.21	0.21	6.0 - 7.3	S 6.65	0.21	3.5 - 4.4	S 3.93	0.16	8	
Qualigen FastPack & Qualigen FastPack	8	0 - 0.2	C 0.1	0.0	5.4 - 7.0	S 6.2	0.25	7.9 - 10.1	S 9.0	0.35	4.1 - 6.3	S 5.2	0.37	2.3 - 3.9	S 3.1	0.25	4	
Roche Elecsys & Roche Cobas 6000	9	0 - 0.2	S 0.03	0.04	5.6 - 8.1	S 6.86	0.41	7.3 - 10.8	S 9.05	0.59	5.1 - 7.3	S 6.21	0.37	3.2 - 4.5	S 3.84	0.21	8	
Roche Elecsys & Roche Elecsys	10	0 - 0.2	S 0.03	0.04	2.0 - 9.9	S 5.98	1.31	8.3 - 9.2	S 8.73	0.15	5.8 - 6.3	S 6.08	0.08	3.6 - 3.9	S 3.75	0.05	4	
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	11	0 - 0.2	S 0.03	0.04	5.7 - 7.6	S 6.66	0.32	7.1 - 10.3	S 8.69	0.54	5.2 - 6.8	S 6.01	0.28	3.4 - 4.0	S 3.72	0.1	17	
Roche Elecsys & Roche e411/e601/E170/E2010	12	0 - 0.1	S 0.02	0.04	5.9 - 7.3	S 6.61	0.23	7.5 - 9.8	S 8.66	0.39	5.4 - 6.5	S 5.96	0.18	3.4 - 4.0	S 3.7	0.11	19	
Siemens Advia & Siemens Centaur/Centaur CP	13	0 - 0.2	S 0.04	0.05	5.1 - 9.0	S 7.07	0.65	7.4 - 12.5	S 9.96	0.86	4.7 - 7.8	S 6.27	0.52	2.8 - 4.4	S 3.61	0.28	14	
Siemens Dimension & Siemens Dim Rxl, Rxl Max	14	0 - 0.2	S 0.05	0.05	4.7 - 6.9	S 5.78	0.38	6.8 - 9.9	S 8.35	0.53	4.0 - 5.8	S 4.9	0.31	2.3 - 3.3	S 2.83	0.16	4	
Siemens Dimension & Siemens Dimension EXL	15	0 - 0.1	S 0.02	0.04	4.0 - 5.8	S 4.9	0.29	6.0 - 7.8	S 8.88	0.3	3.7 - 5.0	S 4.32	0.21	2.1 - 3.0	S 2.55	0.16	6	
Siemens Dimension & Siemens Dimension Xpand	16	0 - 0.1	S 0.02	0.04	4.1 - 7.1	S 5.56	0.5	6.1 - 10.3	S 8.2	0.71	3.5 - 6.2	S 4.86	0.45	2.1 - 3.4	S 2.77	0.22	22	
Siemens Dimension LOCI & Siemens Dimension EXL	17	0 - 0.2	S 0.04	0.06	4.1 - 5.6	S 4.87	0.26	5.7 - 8.1	S 6.91	0.39	3.6 - 5.0	S 4.34	0.23	2.1 - 2.9	S 2.51	0.13	45	
Siemens Immulite 3rd gen & Siemens Immulite 1000	18	0 - 0.2	S 0.04	0.06	4.6 - 7.4	S 5.99	0.46	6.9 - 10.2	S 8.59	0.55	4.2 - 6.3	S 5.24	0.34	2.6 - 3.4	S 3.03	0.13	16	
Siemens Immulite 3rd gen & Siemens Immulite 2000	19	0 - 0.2	S 0.05	0.05	1.7 - 9.9	S 5.8	1.38	6.1 - 12.3	S 9.17	1.03	3.6 - 7.4	S 5.5	0.62	2.2 - 4.1	S 3.15	0.33	6	
Siemens Immulite Turbo & Siemens Immulite 1000	20	0 - 0.2	S 0.04	0.05	5.5 - 6.7	S 6.08	0.2	5.9 - 10.7	S 8.3	0.79	4.4 - 6.6	S 5.52	0.37	3.0 - 3.6	S 3.26	0.1	5	
Siemens Immulite Turbo & Siemens Immulite 2000	21	0 - 0.2	S 0.03	0.04	3.0 - 8.4	S 5.7	0.9	4.6 - 11.5	S 8.05	1.16	2.5 - 7.4	S 4.93	0.82	1.8 - 4.1	S 2.95	0.38	4	
Tosoh AIA & Tosoh AIA	22	0 - 0.4	S 0.06	0.1	5.7 - 10.1	S 7.92	0.72	7.7 - 14.0	S 10.87	1.05	5.2 - 9.1	S 7.15	0.66	2.9 - 5.5	S 4.2	0.44	35	
Tosoh AIA & Tosoh AIA ST	23	0 - 0.3	S 0.07	0.09	6.7 - 9.2	S 7.98	0.42	8.5 - 12.9	S 10.71	0.73	5.9 - 8.3	S 7.08	0.4	3.4 - 5.1	S 4.24	0.27	16	
bioMerieux Vidas & bioMerieux mini Vidas/Vidas	24	0 - 0.2	S 0.07	0.04	5.4 - 8.3	S 6.85	0.48	7.5 - 11.7	S 9.6	0.7	4.6 - 7.3	S 5.96	0.44	2.6 - 4.5	S 3.52	0.31	11	
<b>Initial Grouping by Reagent</b>																		
Abbott Cmia	25	0 - 0.1	S 0.02	0.04	4.6 - 6.9	S 5.71	0.38	6.4 - 8.6	S 7.5	0.35	4.3 - 5.8	S 5.09	0.25	2.6 - 3.6	S 3.1	0.17	26	
Beckman Coulter Access	26	0 - 0.3	S 0.06	0.07	5.1 - 7.3	S 6.21	0.37	6.6 - 10.1	S 8.32	0.59	4.5 - 6.5	S 5.47	0.33	2.6 - 3.8	S 3.2	0.19	79	
DiaSorin CTK-3	27	0.5 - 0.7	C 0.6	0.0	8.2 - 9.0	S 8.63	0.13	10.0 - 11.5	S 10.75	0.25	7.5 - 9.0	S 8.25	0.25	4.7 - 5.1	S 4.9	0.07	4	
MP Biomedicals	28	0 - 1.2	S 0.62	0.19	7.0 - 9.1	S 8.04	0.34	8.1 - 13.1	S 10.62	0.84	6.5 - 9.6	S 8.05	0.53	3.8 - 5.7	S 4.72	0.31	14	
NanoEnTek FREND	29	0 - 0.7	S 0.13	0.19	3.6 - 7.4	S 5.46	0.63	7.1 - 14.3	S 10.7	1.21	2.6 - 6.1	S 4.38	0.58	1.4 - 3.0	S 2.23	0.26	8	
Ortho Vitros	30	0 - 0.3	S 0.06	0.07	6.1 - 8.7	S 7.41	0.44	8.1 - 12.3	S 10.19	0.7	5.3 - 7.8	S 6.54	0.42	3.1 - 4.6	S 3.84	0.24	21	
Qualigen FastPack	31	0 - 0.2	C 0.1	0.0	5.4 - 7.0	S 6.2	0.25	7.9 - 10.1	S 9.0	0.35	4.1 - 6.3	S 5.2	0.37	2.3 - 3.9	S 3.1	0.25	4	
Roche Elecsys	32	0 - 0.1	S 0.02	0.04	5.0 - 8.2	S 6.62	0.52	7.3 - 10.2	S 8.74	0.49	5.2 - 6.8	S 6.03	0.26	3.3 - 4.1	S 3.73	0.14	48	
Siemens Advia	33	0 - 0.2	S 0.04	0.05	5.1 - 9.0	S 7.03	0.65	7.3 - 12.5	S 9.9	0.85	4.7 - 7.8	S 6.23	0.53	2.7 - 4.4	S 3.59	0.28	15	
Siemens Dimension	34	0 - 0.2	S 0.03	0.04	3.9 - 7.1	S 5.46	0.53	5.5 - 10.4	S 7.97	0.82	3.4 - 6.1	S 4.76	0.45	2.1 - 3.4	S 2.74	0.23	32	
Siemens Dimension LOCI	35	0 - 0.2	S 0.04	0.06	4.1 - 5.6	S 4.87	0.25	5.7 - 8.1	S 6.92	0.39	3.7 - 5.0	S 4.34	0.23	2.1 - 2.9	S 2.51	0.13	47	
Siemens Immulite 3rd gen	36	0 - 0.2	S 0.05	0.06	3.6 - 8.4	S 5.97	0.8	6.5 - 11.1	S 8.82	0.76	4.0 - 6.7	S 5.35	0.45	2.4 - 3.7	S 3.07	0.21	24	
Siemens Immulite Turbo	37	0 - 0.2	S 0.03	0.05	4.0 - 7.7	S 5.88	0.62	5.3 - 11.0	S 8.13	0.95	3.3 - 7.2	S 5.28	0.65	2.2 - 4.0	S 3.13	0.29	10	
Tosoh AIA	38	0 - 0.3	S 0.06	0.1	6.0 - 9.9	S 7.94	0.64	8.0 - 13.7	S 10.82	0.96	5.4 - 8.9	S 7.13	0.59	3.0 - 5.4	S 4.21	0.39	52	
bioMerieux Vidas	39	0 - 0.2	S 0.07	0.04	5.4 - 8.3	S 6.85	0.48	7.5 - 11.7	S 9.6	0.7	4.6 - 7.3	S 5.96	0.44	2.6 - 4.5	S 3.52	0.31	11	
<b>Initial Grouping by Sensitivity or Principle</b>																		
Moderate recovery methods	40	0 - 0.7	S 0.09	0.19	4.0 - 9.2	S 6.56	0.87	5.3 - 12.7	S 9.04	1.23	3.0 - 8.9	S 5.94	0.99	1.7 - 5.4	S 3.54	0.61	126	
Low recovery methods	41	0 - 0.3	S 0.06	0.07	5.1 - 7.3	S 6.21	0.37	6.6 - 10.1	S 8.32	0.59	4.5 - 6.5	S 5.47	0.33	2.6 - 3.8	S 3.2	0.19	79	
High moderate recovery meth	42	0 - 0.5	S 0.08	0.14	3.6 - 10.8	S 7.22	1.21	5.8 - 14.2	S 9.98	1.4	3.2 - 9.8	S 6.5	1.09	1.8 - 5.8	S 3.83	0.67	90	
Other	43	0 - 0.8	S 0.12	0.24	4.3 - 9.5	S 6.94	0.86	7.2 - 11.6	S 9.38	0.74	2.8 - 10.1	S 6.46	1.22	1.6 - 5.9	S 3.76	0.72	5	
All other methods	44	0 - 0.3	S 0.06	0.07	6.1 - 8.7	S 7.41	0.44	8.1 - 12.3	S 10.19	0.7	5.3 - 7.8	S 6.54	0.42	3.1 - 4.6	S 3.84	0.24	21	
Low moderate recovery meths	45	0 - 0.2	S 0.03	0.05	3.7 - 6.6	S 5.11	0.49	5.0 - 9.7	S 7.35	0.79	3.3 - 5.7	S 4.51	0.4	2.0 - 3.2	S 2.6	0.21	79	
<b>Total Population</b>																		
Whole Population	46	0 - 1.1	S 0.11	0.33	0 - 14.2	S 6.49	2.57	4.4 - 13.3	S 8.85	1.49	2.5 - 8.9	S 5.73	1.07	1.2 - 5.6	S 3.4	0.73	402	

## Thyroxine, Free (FT4)

<b>Initial Grouping by Reagent and Instrument</b>																		
Abbott Cmia & Abbott Architect c, ci, i	1	0.3 - 0.5	C 0.4	0.0	3.2 - 5.3	S 4.21	0.35	3.8 - 5.5	S 4.66	0.3	3.0 - 5.1	S 4.09	0.35	2.8 - 4.7	S 3.78	0.31	23	
Beckman Coulter Access & Beckman Coulter Access	2	0 - 0.5	S 0.11	0.13	2.5 - 3.1	S 2.8	0.11	2.3 - 3.2	S 2.71	0.15	2.5 - 3.2	S 2.89	0.12	2.8 - 3.7	S 3.27	0.16	45	
Beckman Coulter Access & Beckman Coulter Dxl	3	0 - 0.6	S 0.24	0.13	2.4 - 3.4	S 2.92	0.17	2.4 - 3.2	S 2.77	0.14	2.6 - 3.4	S 3.02	0.13	3.0 - 4.0	S 3.47	0.17	12	
MP Biomedicals & All gamma counters	4	0 - 0.4	S 0.1	0.09	2.0 - 3.5	S 2.77	0.24	2.5 - 4.6	S 3.54	0.34	2.1 - 3.5	S 2.77	0.23	1.7 - 3.1	S 2.41	0.23	18	



Ortho Vitros & Ortho Vitros 3600, 5600	5	0 - 0.2	C 0.09	0.03	6.8 - 7.1	S 6.93	0.04	6.8 - 7.0	C 6.9	0.0	6.8 - 7.1	S 6.93	0.04	6.8 - 7.1	S 6.93	0.04	12
Ortho Vitros & Ortho Vitros ECI	6	0 - 0.2	C 0.1	0.0	6.7 - 6.9	C 6.8	0.0	6.8 - 7.0	C 6.9	0.0	6.8 - 7.1	S 6.94	0.05	6.8 - 7.0	S 6.92	0.04	8
Roche Elecsys & Roche Cobas 6000	7	0 - 0.2	C 0.1	0.0	3.4 - 4.2	S 3.8	0.13	3.5 - 4.2	S 3.88	0.12	3.4 - 4.3	S 3.88	0.15	3.5 - 4.4	S 3.92	0.15	5
Roche Elecsys & Roche Elecsys	8	0 - 0.2	C 0.1	0.0	3.0 - 4.4	S 3.7	0.22	3.2 - 4.4	S 3.78	0.19	3.1 - 4.4	S 3.75	0.23	3.0 - 4.4	S 3.68	0.23	4
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	9	0 - 0.2	C 0.1	0.0	3.4 - 4.0	S 3.7	0.12	3.4 - 4.2	S 3.78	0.14	3.4 - 4.0	S 3.71	0.1	3.3 - 4.2	S 3.73	0.14	12
Roche Elecsys & Roche e411/e601/E170/E2010	10	0 - 0.2	C 0.1	0.0	3.1 - 4.4	S 3.76	0.21	3.3 - 4.5	S 3.91	0.21	3.2 - 4.3	S 3.77	0.17	3.3 - 4.4	S 3.81	0.18	10
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	11	0.1 - 0.6	S 0.32	0.08	2.3 - 4.8	S 3.54	0.42	2.0 - 4.2	S 3.1	0.36	2.7 - 5.3	S 3.98	0.44	3.4 - 7.2	S 5.28	0.64	12
Siemens Dimension & Siemens Dimension EXL	12	0 - 0.2	C 0.1	0.0	3.9 - 4.2	S 4.07	0.04	3.7 - 4.1	S 3.9	0.07	3.8 - 4.5	S 4.13	0.11	4.2 - 5.0	S 4.6	0.14	4
Siemens Dimension & Siemens Dimension Xpand	13	0 - 0.4	S 0.11	0.1	2.8 - 4.4	S 3.64	0.27	2.7 - 4.4	S 3.58	0.28	2.8 - 4.5	S 3.69	0.28	3.2 - 4.4	S 3.78	0.2	18
Siemens Dimension LOCI & Siemens Dimension EXL	14	0 - 0.2	S 0.12	0.04	3.5 - 4.5	S 3.98	0.17	3.4 - 4.3	S 3.83	0.15	3.6 - 4.5	S 4.08	0.15	4.0 - 5.1	S 4.53	0.17	40
Siemens Immulite (1-step) & Siemens Immulite 1000	15	0.3 - 0.5	S 0.38	0.04	2.8 - 3.8	S 3.3	0.15	2.5 - 3.5	S 3.0	0.18	3.2 - 3.6	S 3.4	0.06	3.2 - 4.7	S 3.93	0.24	6
Siemens Immulite (1-step) & Siemens Immulite 2000	16	0.2 - 0.4	C 0.3	0.0	2.3 - 3.7	S 3.02	0.23	2.0 - 3.5	S 2.76	0.26	2.5 - 3.8	S 3.16	0.22	2.8 - 4.4	S 3.6	0.26	5
Tosoh AIA & Tosoh AIA	17	0 - 0.2	S 0.05	0.05	2.8 - 5.1	S 3.99	0.38	3.2 - 4.9	S 4.03	0.28	3.0 - 5.3	S 4.16	0.39	3.2 - 5.4	S 4.3	0.38	22
Tosoh AIA & Tosoh AIA ST	18	0 - 0.2	S 0.09	0.03	3.6 - 4.7	S 4.14	0.19	3.7 - 4.7	S 4.16	0.17	3.5 - 4.8	S 4.16	0.21	3.7 - 5.2	S 4.47	0.24	7
bioMerieux Vidas & bioMerieux mini Vidas/Vidas	19	0 - 0.2	C 0.1	0.0	2.5 - 3.2	S 2.85	0.11	2.1 - 3.8	S 2.93	0.28	2.7 - 3.2	S 2.93	0.08	2.2 - 4.2	S 3.18	0.33	4

**Initial Grouping by Reagent**

Abbott Cmia	20	0.3 - 0.5	C 0.4	0.0	3.2 - 5.3	S 4.21	0.35	3.8 - 5.5	S 4.66	0.3	3.0 - 5.1	S 4.09	0.35	2.8 - 4.7	S 3.78	0.31	23
Beckman Coulter Access	21	0 - 0.6	S 0.14	0.14	2.4 - 3.2	S 2.83	0.13	2.3 - 3.2	S 2.72	0.15	2.5 - 3.3	S 2.92	0.13	2.8 - 3.9	S 3.32	0.18	61
MP Biomedicals	22	0 - 0.4	S 0.09	0.09	2.1 - 3.5	S 2.78	0.24	2.6 - 4.5	S 3.54	0.33	2.1 - 3.4	S 2.76	0.23	1.7 - 3.1	S 2.41	0.23	19
Ortho Vitros	23	0 - 0.3	S 0.11	0.07	0.8 - 9.8	S 5.3	1.5	4.7 - 8.7	S 6.72	0.67	3.8 - 4.0	C 3.9	0.0	4.6 - 8.9	S 6.76	0.73	21
Roche Cobas	24	0 - 0.2	C 0.1	0.0	3.6 - 4.0	S 3.8	0.07	3.7 - 4.0	S 3.85	0.05	3.7 - 4.0	S 3.85	0.05	3.7 - 4.2	S 3.93	0.08	4
Roche Elecsys	25	0 - 0.2	C 0.1	0.0	3.2 - 4.3	S 3.74	0.17	3.3 - 4.4	S 3.84	0.18	3.3 - 4.2	S 3.76	0.16	3.2 - 4.3	S 3.78	0.19	31
Siemens Advia/Centaur/CP/XP	26	0.1 - 0.6	S 0.32	0.08	2.3 - 4.8	S 3.54	0.42	2.0 - 4.2	S 3.1	0.36	2.7 - 5.3	S 3.98	0.44	3.4 - 7.2	S 5.28	0.64	12
Siemens Dimension	27	0 - 0.4	S 0.11	0.08	2.8 - 4.7	S 3.71	0.32	2.7 - 4.6	S 3.62	0.32	2.7 - 4.8	S 3.76	0.34	2.8 - 5.1	S 3.93	0.38	25
Siemens Dimension LOCI	28	0 - 0.2	S 0.12	0.04	3.5 - 4.5	S 3.98	0.17	3.4 - 4.3	S 3.82	0.15	3.6 - 4.6	S 4.09	0.16	4.0 - 5.1	S 4.53	0.18	42
Siemens Immulite (1-step)	29	0.2 - 0.5	S 0.34	0.05	2.5 - 3.8	S 3.15	0.23	2.2 - 3.6	S 2.89	0.23	2.7 - 3.9	S 3.28	0.19	2.9 - 4.6	S 3.78	0.29	13
Tosoh AIA	30	0 - 0.2	S 0.06	0.05	3.0 - 5.1	S 4.03	0.35	3.3 - 4.9	S 4.08	0.27	3.1 - 5.2	S 4.16	0.35	3.3 - 5.4	S 4.34	0.35	30
bioMerieux Vidas	31	0 - 0.2	C 0.1	0.0	2.5 - 3.2	S 2.85	0.11	2.1 - 3.8	S 2.93	0.28	2.7 - 3.2	S 2.93	0.08	2.2 - 4.2	S 3.18	0.33	4

**Initial Grouping by Sensitivity or Principle**

Moderate recovery methods	32	0 - 0.6	S 0.15	0.15	1.5 - 5.4	S 3.43	0.64	1.3 - 5.8	S 3.55	0.73	1.6 - 5.4	S 3.47	0.63	1.7 - 5.4	S 3.57	0.61	174
Other	33	0 - 1.0	S 0.31	0.22	1.8 - 5.8	S 3.79	0.67	2.3 - 4.9	S 3.61	0.44	2.0 - 5.6	S 3.8	0.6	1.4 - 6.8	S 4.1	0.9	8
High recovery methods	34	0 - 0.3	S 0.11	0.07	0.8 - 9.8	S 5.3	1.5	4.7 - 8.7	S 6.72	0.67	3.8 - 4.0	C 3.9	0.0	4.6 - 8.9	S 6.76	0.73	21
Low recovery methods	35	0.1 - 0.6	S 0.32	0.08	2.3 - 4.8	S 3.54	0.42	2.0 - 4.2	S 3.1	0.36	2.7 - 5.3	S 3.98	0.44	3.4 - 7.2	S 5.28	0.64	12
Low moderate recovery meth	36	0 - 0.3	S 0.12	0.06	3.1 - 4.7	S 3.88	0.27	3.0 - 4.5	S 3.75	0.25	3.1 - 4.8	S 3.97	0.29	3.1 - 5.5	S 4.31	0.4	67
High moderate recovery meth	37	0.2 - 0.5	S 0.34	0.05	2.5 - 3.8	S 3.15	0.21	2.2 - 3.5	S 2.89	0.21	2.7 - 3.9	S 3.29	0.21	2.9 - 4.7	S 3.79	0.3	16
<b>Total Population</b>																	
Whole Population	38	0 - 1.0	S 0.19	0.28	0.7 - 6.8	S 3.76	1.03	0.6 - 6.9	S 3.77	1.05	0 - 70.7	S 5.1	21.88	1.0 - 7.1	S 4.05	1.03	299

**Thyroxine, Total (TT4)**

**Initial Grouping by Reagent and Instrument**

Abbott Cmia & Abbott Architect c, ci, i	1	0.2 - 2.2	C 1.17	0.27	12.4 - 18.6	P 15.48	1.23	15.5 - 23.3	P 19.38	1.11	11.0 - 16.6	P 13.81	0.92	8.1 - 12.1	P 10.08	0.59	14
Beckman Coulter Access & Beckman Coulter Access	2	0 - 1.1	C 0.09	0.17	10.0 - 15.0	P 12.48	0.74	11.3 - 17.0	P 14.13	0.83	9.6 - 14.4	P 12.03	0.77	8.3 - 12.5	P 10.38	0.56	25
Beckman Coulter Access & Beckman Coulter Dxl	3	0 - 1.7	C 0.66	0.52	10.4 - 15.6	P 12.96	1.06	11.3 - 17.0	P 14.14	0.96	9.8 - 14.7	P 12.21	1.21	8.5 - 12.8	P 10.66	0.73	7
Ortho Vitros & Ortho Vitros 3600, 5600	4	0 - 1.4	C 0.4	0.0	12.2 - 18.3	P 15.22	0.5	15.3 - 22.9	P 19.1	0.64	11.2 - 16.8	P 14.0	0.55	8.1 - 12.1	P 10.1	0.44	5
Roche Cobas & Roche Cobas 6000	5	0 - 1.4	C 0.4	0.0	9.3 - 14.0	P 11.64	0.76	12.0 - 17.9	P 14.94	1.02	8.7 - 13.0	P 10.82	0.64	6.7 - 10.0	P 8.34	0.52	5
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	6	0 - 1.5	C 0.48	0.1	9.6 - 14.4	P 12.04	0.46	12.2 - 18.4	P 15.3	0.72	8.9 - 13.3	P 11.11	0.39	6.8 - 10.3	P 8.55	0.3	8
Roche Elecsys & Roche e411/e601/E170/E2010	7	0 - 1.6	C 0.55	0.13	9.7 - 14.5	P 12.08	1.21	12.0 - 18.0	P 15.03	1.05	9.0 - 13.4	P 11.2	0.54	6.8 - 10.2	P 8.5	0.35	6
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	8	0 - 1.1	C 0.13	0.14	9.7 - 14.6	P 12.13	1.26	11.1 - 16.6	P 13.84	1.56	9.3 - 14.0	P 11.63	1.12	7.7 - 11.6	P 9.65	0.87	8
Siemens Dimension & Siemens Dimension EXL	9	0 - 1.5	C 0.49	0.08	11.1 - 16.6	P 13.87	0.54	13.9 - 20.8	P 17.35	0.72	10.2 - 15.3	P 12.74	0.49	7.8 - 11.8	P 9.8	0.51	16
Siemens Dimension & Siemens Dimension Xpand	10	0 - 1.3	C 0.33	0.18	11.1 - 16.6	P 13.83	0.4	13.7 - 20.6	P 17.13	0.22	10.3 - 15.5	P 12.9	0.37	8.1 - 12.2	P 10.15	0.36	4
Siemens Immulite & Siemens Immulite 2000	11	0 - 2.0	C 1.0	0.0	9.6 - 14.4	P 11.96	0.31	11.4 - 17.1	P 14.24	1.17	9.3 - 14.0	P 11.64	0.71	7.7 - 11.6	P 9.66	0.51	5
Tosoh AIA & Tosoh AIA	12	0 - 1.3	C 0.33	0.33	9.5 - 14.3	P 11.93	1.24	11.8 - 17.7	P 14.77	1.67	9.3 - 13.9	P 11.6	1.25	7.5 - 11.3	P 9.4	0.77	10

**Initial Grouping by Reagent**

Abbott Cmia	13	0.2 - 2.2	C 1.17	0.27	12.4 - 18.6	P 15.48	1.23	15.5 - 23.3	P 19.38	1.11	11.0 - 16.6	P 13.81	0.92	8.1 - 12.1	P 10.08	0.59	14
Beckman Coulter Access	14	0 - 1.2	C 0.22	0.36	10.0 - 15.1	P 12.55	0.84	11.3 - 16.9	P 14.11	0.85	9.7 - 14.5	P 12.08	0.88	8.3 - 12.5	P 10.43	0.64	35
Ortho Vitros	15	0 - 1.5	C 0.48	0.2	12.0 - 18.0	P 14.96	0.63	15.1 - 22.6	P 18.84	0.76	11.0 - 16.5	P 13.77	0.63	8.1 - 12.1	P 10.08	0.5	9
Roche Cobas	16	0 - 1.4	C 0.4	0.0	9.3 - 13.9	P 11.61	0.64	11.8 - 17.8	P 14.81	0.89	8.7 - 13.0	P 10.84	0.54	6.6 - 9.9	P 8.29	0.49	7
Roche Elecsys	17	0 - 1.5	C 0.49	0.11	9.6 - 14.4	P 11.98	0.81	12.1 - 18.1	P 15.07	0.87	8.9 - 13.3	P 11.09	0.44	6.8 - 10.2	P 8.49	0.32	17
Siemens Advia/Centaur/CP/XP	18	0 - 1.1	C 0.13	0.14	9.7 - 14.6	P 12.13	1.26	11.1 - 16.6	P 13.84	1.56	9.3 - 14.0	P 11.63	1.12	7.7 - 11.6	P 9.65	0.87	8
Siemens Dimension	19	0 - 1.5	C 0.45	0.17	11.2 - 16.7	P 13.95	0.8	13.9 - 20.8	P 17.35	1.14	10.3 - 15.5	P 12.89	0.68	8.0 - 12.1	P 10.05	0.64	24

Siemens Immulite	20	0 - 2.0	C 1.0	0.0	10.0 - 15.0	P 12.47	0.96	11.9 - 17.9	P 14.9	1.38	9.5 - 14.2	P 11.84	0.67	7.9 - 11.9	P 9.9	0.69	9
Tosoh AIA	21	0 - 1.4	C 0.38	0.3	9.7 - 14.6	P 12.16	1.18	11.9 - 17.8	P 14.85	1.49	9.4 - 14.2	P 11.81	1.2	7.6 - 11.4	P 9.52	0.77	13
<b>Initial Grouping bySensitivityor Principle</b>																	
Moderate recovery methods	22	0 - 1.6	C 0.63	0.41	11.1 - 16.7	P 13.91	1.59	13.7 - 20.6	P 17.18	2.04	10.3 - 15.4	P 12.86	1.16	7.9 - 11.9	P 9.92	0.7	50
High recovery methods	23	0 - 1.2	C 0.22	0.36	10.0 - 15.1	P 12.55	0.84	11.3 - 16.9	P 14.11	0.85	9.7 - 14.5	P 12.08	0.88	8.3 - 12.5	P 10.43	0.64	35
High moderate recovery meth	24	0 - 1.4	C 0.39	0.16	9.8 - 14.7	P 12.21	1.28	12.1 - 18.1	P 15.07	1.16	9.0 - 13.5	P 11.27	1.1	6.8 - 10.2	P 8.52	0.55	10
Low moderate recovery meths	25	0 - 1.5	C 0.49	0.14	10.3 - 15.4	P 12.83	1.67	12.8 - 19.2	P 15.97	2.41	9.5 - 14.3	P 11.92	1.37	7.3 - 11.0	P 9.16	0.94	28
Low recovery methods	26	0 - 1.6	C 0.59	0.45	9.8 - 14.8	P 12.31	1.13	11.5 - 17.3	P 14.4	1.56	9.4 - 14.1	P 11.74	0.91	7.8 - 11.7	P 9.78	0.79	17
<b>Total Population</b>																	
Whole Population	27	0 - 1.6	C 0.62	1.01	10.4 - 15.6	P 12.99	1.69	12.6 - 18.9	P 15.74	2.53	9.7 - 14.6	P 12.18	1.37	7.8 - 11.7	P 9.73	1.03	141

### Triiodothyronine, Total (TT3)

#### Initial Grouping byReagent and Instrument

Abbott CMA & Abbott Architect c, ci, i	1	0.2 - 0.32	S 0.261	0.019	1.35 - 1.85	S 1.6	0.082	1.37 - 1.78	S 1.576	0.069	1.3 - 1.91	S 1.607	0.102	1.06 - 1.7	S 1.376	0.107	7
Beckman Coulter Access & Beckman Coulter Access	2	0.04 - 0.39	S 0.217	0.059	1.56 - 2.36	S 1.963	0.133	1.89 - 3.35	S 2.622	0.244	1.41 - 2.25	S 1.83	0.139	1.19 - 1.73	S 1.459	0.089	18
Beckman Coulter Access & Beckman Coulter DxI	3	0.06 - 0.44	S 0.248	0.063	1.58 - 2.98	S 2.283	0.234	2.22 - 4.04	S 3.129	0.304	1.56 - 2.59	S 2.074	0.172	1.15 - 1.92	S 1.535	0.127	8
MP Biomedicals & All gamma counters	4	0 - 0.65	S 0.316	0.112	1.98 - 2.95	S 2.464	0.162	2.83 - 4.35	S 3.592	0.252	1.22 - 3.37	S 2.298	0.358	1.01 - 2.12	S 1.565	0.186	12
Ortho Vitros & Ortho Vitros 3600, 5600	5	0.49 - 0.67	S 0.58	0.029	7.79 - 7.82	S 7.807	0.004	7.79 - 7.82	S 7.807	0.004	7.79 - 7.82	S 7.807	0.004	7.21 - 7.82	S 7.512	0.101	4
Roche Elecsys & Roche Cobas 6000	6	0.15 - 0.35	S 0.25	0.034	1.7 - 2.25	S 1.973	0.093	1.99 - 2.65	S 2.32	0.108	1.64 - 2.22	S 1.933	0.097	1.36 - 1.76	S 1.56	0.065	4
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	7	0.13 - 0.36	S 0.247	0.039	1.57 - 2.12	S 1.846	0.091	1.77 - 2.38	S 2.074	0.102	1.5 - 2.08	S 1.789	0.097	1.09 - 1.84	S 1.467	0.124	11
Roche Elecsys & Roche e411/e601/E170/E2010	8	0.05 - 0.49	S 0.273	0.073	1.5 - 2.33	S 1.913	0.139	1.72 - 2.62	S 2.167	0.15	1.43 - 2.32	S 1.873	0.148	1.21 - 1.97	S 1.587	0.126	7
Siemens Advia & Siemens Centaur/Centaur CP	9	0 - 0.19	S 0.044	0.05	1.19 - 1.94	S 1.569	0.125	1.2 - 2.06	S 1.632	0.143	1.21 - 1.93	S 1.567	0.119	1.14 - 1.84	S 1.489	0.116	9
Siemens Immulite & Siemens Immulite 2000	10	0.39 - 0.41	C 0.4	0.0	0.76 - 1.3	S 1.03	0.09	0.69 - 1.38	S 1.038	0.115	0.72 - 1.34	S 1.03	0.102	0.57 - 1.14	S 0.853	0.095	5
Tosoh AIA & Tosoh AIA	11	0.15 - 0.36	S 0.258	0.035	1.17 - 6.95	S 4.062	0.963	0.1 - 10.17	S 5.132	1.678	1.36 - 6.03	S 3.694	0.778	0.45 - 5.38	S 2.912	0.821	5

#### Initial Grouping byReagent

Abbott CMA	12	0.2 - 0.32	S 0.261	0.019	1.35 - 1.85	S 1.6	0.082	1.37 - 1.78	S 1.576	0.069	1.3 - 1.91	S 1.607	0.102	1.06 - 1.7	S 1.376	0.107	7
Beckman Coulter Access	13	0.01 - 0.43	S 0.219	0.071	1.41 - 2.74	S 2.074	0.222	1.76 - 3.82	S 2.79	0.343	1.36 - 2.46	S 1.912	0.182	1.17 - 1.79	S 1.482	0.104	28
MP Biomedicals	14	0 - 0.64	S 0.315	0.107	2.0 - 2.93	S 2.467	0.155	2.86 - 4.37	S 3.612	0.252	1.27 - 3.33	S 2.298	0.344	1.03 - 2.13	S 1.577	0.184	13
Ortho Vitros	15	0.2 - 0.89	S 0.544	0.115	1.51 - 1.53	C 1.52	0.0	0.52 - 13.34	S 6.934	2.137	1.63 - 1.65	C 1.64	0.0	1.39 - 1.41	C 1.4	0.0	7
Roche Elecsys	16	0.1 - 0.41	S 0.254	0.053	1.53 - 2.24	S 1.885	0.119	1.7 - 2.59	S 2.145	0.15	1.47 - 2.21	S 1.839	0.125	1.12 - 1.9	S 1.513	0.13	24
Siemens Advia	17	0 - 0.19	S 0.044	0.05	1.19 - 1.94	S 1.569	0.125	1.2 - 2.06	S 1.632	0.143	1.21 - 1.93	S 1.567	0.119	1.14 - 1.84	S 1.489	0.116	9
Siemens Immulite	18	0.39 - 0.41	C 0.4	0.0	0.75 - 1.26	S 1.007	0.086	0.73 - 1.38	S 1.058	0.109	0.78 - 1.29	S 1.037	0.086	0.58 - 1.1	S 0.837	0.087	7
Tosoh AIA	19	0.12 - 0.4	S 0.26	0.046	1.64 - 6.53	S 4.087	0.815	0.86 - 9.37	S 5.117	1.419	1.75 - 5.73	S 3.744	0.664	0.85 - 5.08	S 2.963	0.706	7

#### Initial Grouping bySensitivityor Principle

Low moderate recovery meths	20	0 - 0.57	S 0.219	0.116	0.57 - 3.01	S 1.788	0.406	0.01 - 4.4	S 2.204	0.732	0.73 - 2.68	S 1.702	0.326	0.69 - 2.09	S 1.391	0.233	51
High moderate recovery meth	21	0.03 - 0.52	S 0.275	0.082	1.17 - 3.01	S 2.089	0.308	0.48 - 4.84	S 2.66	0.726	1.05 - 2.95	S 2.0	0.316	1.07 - 2.0	S 1.535	0.154	37
Low recovery methods	22	0.2 - 0.89	S 0.544	0.115	1.51 - 1.53	C 1.52	0.0	0.52 - 13.34	S 6.934	2.137	1.63 - 1.65	C 1.64	0.0	1.39 - 1.41	C 1.4	0.0	7
High recovery methods	23	0.12 - 0.4	S 0.26	0.046	1.64 - 6.53	S 4.087	0.815	0.86 - 9.37	S 5.117	1.419	1.75 - 5.73	S 3.744	0.664	0.85 - 5.08	S 2.963	0.706	7
<b>Total Population</b>																	
Whole Population	24	0 - 0.64	S 0.265	0.126	0 - 7.32	S 2.463	1.618	0 - 8.08	S 2.961	1.705	0 - 7.16	S 2.363	1.598	0 - 6.51	S 1.945	1.522	106

### T-Uptake % of Total

#### Initial Grouping byReagent and Instrument

Abbott CMA & Abbott Architect c, ci, i	1	21 - 30	S 25.8	1.5	28 - 49	S 38.5	3.6	24 - 45	S 34.8	3.6	30 - 50	S 40.0	3.4	34 - 56	S 44.8	3.7	4
Beckman Coulter Access & Beckman Coulter Access	2	29 - 48	S 38.4	3.3	39 - 56	S 47.7	2.8	36 - 51	S 43.5	2.6	39 - 58	S 48.8	3.1	42 - 63	S 52.6	3.6	18
Beckman Coulter Access & Beckman Coulter DxI	3	35 - 48	S 41.5	2.1	39 - 62	S 50.8	3.8	28 - 61	S 44.5	5.3	34 - 68	S 51.0	5.8	42 - 68	S 54.8	4.4	6
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	4	22 - 33	S 27.7	1.8	30 - 44	S 37.0	2.3	24 - 33	S 28.5	1.4	29 - 50	S 39.3	3.5	39 - 60	S 49.3	3.4	6
Siemens Dimension & Siemens Dimension EXL	5	24 - 32	S 28.2	1.3	36 - 48	S 42.2	2.0	36 - 45	S 40.3	1.5	38 - 49	S 43.3	1.9	39 - 52	S 45.1	2.1	12
Siemens Immulite & Siemens Immulite 2000	6	19 - 31	S 24.8	2.0	33 - 39	S 35.6	1.0	28 - 40	S 33.8	1.9	32 - 41	S 36.4	1.6	31 - 46	S 38.4	2.6	5
Tosoh AIA & Tosoh AIA	7	13 - 27	S 20.2	2.3	37 - 50	S 43.8	2.1	35 - 43	S 39.0	1.4	41 - 49	S 44.6	1.4	43 - 56	S 49.4	2.2	5

#### Initial Grouping byReagent

Abbott CMA	8	21 - 30	S 25.8	1.5	28 - 49	S 38.5	3.6	24 - 45	S 34.8	3.6	30 - 50	S 40.0	3.4	34 - 56	S 44.8	3.7	4
Beckman Coulter Access	9	29 - 50	S 39.3	3.4	38 - 58	S 48.4	3.3	33 - 54	S 43.6	3.5	37 - 61	S 49.4	4.0	41 - 66	S 53.4	4.1	26
Roche Elecsys	10	24 - 31	S 27.5	1.1	37 - 54	S 45.5	2.7	36 - 56	S 46.3	3.3	36 - 54	S 45.0	3.0	37 - 51	S 44.0	2.3	4
Siemens Advia/Centaur/CP/XP	11	22 - 33	S 27.7	1.8	30 - 44	S 37.0	2.3	24 - 33	S 28.5	1.4	29 - 50	S 39.3	3.5	39 - 60	S 49.3	3.4	6
Siemens Dimension	12	19 - 39	S 29.2	3.3	33 - 53	S 42.9	3.3	33 - 48	S 40.8	2.5	36 - 51	S 43.6	2.4	36 - 55	S 45.7	3.2	17
Siemens Immulite	13	19 - 29	S 24.2	1.7	32 - 38	S 35.1	1.0	27 - 39	S 33.0	2.1	33 - 41	S 36.8	1.4	32 - 47	S 39.3	2.6	9
Tosoh AIA	14	14 - 26	S 20.0	2.2	37 - 50	S 43.3	2.2	32 - 44	S 38.3	2.0	39 - 49	S 44.0	1.8	42 - 56	S 48.8	2.4	6

#### Initial Grouping bySensitivityor Principle

All other methods	15	21 - 30	S 25.8	1.5	28 - 49	S 38.5	3.6	24 - 45	S 34.8	3.6	30 - 50	S 40.0	3.4	34 - 56	S 44.8	3.7	4
Very high recovery methods	16	29 - 50	S 39.3	3.4	38 - 58	S 48.4	3.3	33 - 54	S 43.6	3.5	37 - 61	S 49.4	4.0	41 - 66	S 53.4	4.1	26

Low moderate recovery meths	17	21 - 35	S 28.3	2.3	27 - 55	S 41.0	4.6	11 - 61	S 36.0	8.3	29 - 56	S 42.5	4.4	36 - 60	S 47.9	4.1	12
High moderate recovery meth	18	12 - 42	S 26.8	5.1	34 - 52	S 43.0	3.1	32 - 48	S 40.2	2.6	37 - 50	S 43.7	2.3	37 - 56	S 46.5	3.3	23
Moderate recovery methods	19	18 - 29	S 23.7	1.9	28 - 44	S 36.0	2.7	25 - 43	S 33.7	3.0	30 - 46	S 37.6	2.7	31 - 50	S 40.2	3.2	11
<b>Total Population</b>																	
Whole Population	20	9 - 53	S 31.0	7.2	24 - 63	S 43.8	6.5	19 - 61	S 40.1	7.0	26 - 63	S 44.8	6.2	29 - 68	S 48.5	6.3	78

### T-Uptake Ratio to Normal

#### Initial Grouping by Reagent and Instrument

Abbott CMIA & Abbott Architect c, ci, i	1	1.1 - 1.45	S 1.272	0.058	0.59 - 0.8	S 0.695	0.036	0.71 - 0.9	S 0.805	0.032	0.53 - 0.77	S 0.647	0.039	0.43 - 0.66	S 0.547	0.039	6
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	2	1.21 - 1.32	S 1.264	0.017	0.42 - 0.69	S 0.556	0.046	0.32 - 0.7	S 0.51	0.063	0.44 - 0.71	S 0.578	0.045	0.5 - 0.7	S 0.6	0.034	5

#### Initial Grouping by Reagent

Abbott CMIA	3	1.1 - 1.45	S 1.272	0.058	0.59 - 0.8	S 0.695	0.036	0.71 - 0.9	S 0.805	0.032	0.53 - 0.77	S 0.647	0.039	0.43 - 0.66	S 0.547	0.039	6
Roche Elecsys	4	1.21 - 1.31	S 1.263	0.016	0.44 - 0.68	S 0.562	0.04	0.34 - 0.7	S 0.519	0.059	0.46 - 0.69	S 0.574	0.039	0.52 - 0.67	S 0.596	0.026	9

#### Initial Grouping by Sensitivity or Principle

Other	5	1.15 - 1.38	S 1.267	0.039	0.39 - 0.84	S 0.615	0.076	0.19 - 1.08	S 0.633	0.149	0.45 - 0.76	S 0.603	0.053	0.46 - 0.7	S 0.576	0.04	15
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#### Total Population

Whole Population	6	0.84 - 1.63	S 1.234	0.131	0.38 - 0.84	S 0.609	0.077	0.19 - 1.07	S 0.626	0.147	0.43 - 0.76	S 0.598	0.055	0.45 - 0.7	S 0.572	0.041	16
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