



SPECIAL CHEMISTRY

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Ferritin								
Initial Grouping by Reagent and Instrument								
Abbott MEIA fluorometric & Abbott AxSYM	1	39.0 - 73.0	P 56.4	5.9	239.0 - 444.0	P 341.8	46.2	14
Beckman Access luminometric & Beckman Access luminometer	2	30.0 - 57.0	P 43.6	2.6	191.0 - 355.0	P 272.9	17.0	65
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	3	35.0 - 65.0	P 50.3	3.2	234.0 - 434.0	P 334.0	26.1	10
J&J Vitros ECi luminometric & J&J Vitros ECi	4	26.0 - 49.0	P 37.7	1.7	162.0 - 301.0	P 231.2	12.1	13
Roche Elecsys luminometric & Roche Elecsys series	5	39.0 - 72.0	P 55.3	3.2	238.0 - 442.0	P 339.6	23.9	14
Siemens luminometric & Siemens Centaur/Centaur CP	6	37.0 - 69.0	P 53.4	1.6	240.0 - 446.0	P 343.3	17.2	15
Siemens CrO2 & Siemens Dimension Xpand	7	37.0 - 69.0	P 53.0	1.9	222.0 - 411.0	P 316.5	13.4	11
Siemens Coat-A-Count IRMA & All gamma counters	8	24.0 - 45.0	P 34.3	6.6	197.0 - 365.0	P 281.0	36.0	10
Siemens Immulite & Siemens Immulite 2000	9	39.0 - 72.0	P 55.6	2.8	218.0 - 405.0	P 311.8	20.5	30
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	10	29.0 - 54.0	P 41.5	1.8	182.0 - 338.0	P 259.8	9.6	14
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	11	29.0 - 55.0	P 42.0	2.0	182.0 - 338.0	P 259.8	6.1	13
Initial Grouping by Reagent								
Abbott MEIA fluorometric	12	39.0 - 73.0	P 56.4	5.9	239.0 - 444.0	P 341.8	46.2	14
Beckman Access luminometric	13	30.0 - 57.0	P 43.5	2.5	191.0 - 354.0	P 272.7	16.8	71
bioMerieux Vidas fluorometr	14	35.0 - 65.0	P 50.3	3.2	234.0 - 434.0	P 334.0	26.1	10
J&J Vitros ECi luminometric	15	27.0 - 49.0	P 38.0	1.9	165.0 - 307.0	P 235.9	14.2	21
Roche Elecsys luminometric	16	39.0 - 73.0	P 56.3	3.3	242.0 - 450.0	P 345.9	22.8	24
Siemens luminometric	17	37.0 - 70.0	P 53.5	1.5	234.0 - 434.0	P 334.2	23.1	21
Siemens CrO2	18	38.0 - 70.0	P 53.8	1.8	221.0 - 410.0	P 315.7	11.7	42
Siemens Coat-A-Count IRMA	19	25.0 - 47.0	P 35.9	5.0	197.0 - 365.0	P 281.0	36.0	10
Siemens Immulite	20	38.0 - 71.0	P 54.8	3.1	215.0 - 400.0	P 307.3	20.3	49
Tosoh AIA Pack fluorometric	21	29.0 - 54.0	P 41.8	1.9	182.0 - 338.0	P 259.8	8.0	27
Initial Grouping by Sensitivity or Principle								

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD		Range & Type	Mean	SD		
Immunofluorometric-not FPIA	22	31.0 - 58.0	P 44.8	7.7		195.0 - 362.0	P 278.4	49.3		72
Luminometric	23	35.0 - 65.0	P 50.1	6.4		212.0 - 394.0	P 302.8	35.0		169
Turbidimetric	24	38.0 - 70.0	P 53.7	6.2		193.0 - 359.0	P 276.2	39.9		10
Radiometric	25	25.0 - 47.0	P 35.9	5.0		197.0 - 365.0	P 281.0	36.0		10
Spectrophotometric	26	38.0 - 70.0	P 54.1	2.0		223.0 - 413.0	P 317.9	14.1		52
Total Population										
Whole Population	27	35.0 - 65.0	P 49.8	7.3		210.0 - 390.0	P 299.9	39.2		334

Folate

Initial Grouping by Reagent and Instrument

Abbott ion capture FIA & Abbott AxSYM	1	1.5 - 3.3	C 2.39	0.36		12.0 - 22.2	P 17.08	1.41		18
Beckman Access luminometric & Beckman Access luminometer	2	0.4 - 2.2	C 1.29	0.16		9.4 - 17.5	P 13.45	0.82		52
MP Bio SimulTRAC-SNB RIA & All gamma counters	3	0.8 - 2.6	C 1.69	0.77		10.8 - 20.0	P 15.40	2.26		13
Roche Elecsys, Folate II & Roche Elecsys series	4	1.3 - 3.1	C 2.22	0.53		10.7 - 20.0	P 15.35	1.55		13
Siemens Immulite 2000 & Siemens Immulite 2000	5	0.7 - 2.5	C 1.62	0.26		10.9 - 20.3	P 15.58	1.40		20
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	6	1.5 - 3.3	C 2.44	0.50		7.1 - 13.3	P 10.21	0.66		10

Initial Grouping by Reagent

Abbott ion capture FIA	7	1.5 - 3.3	C 2.43	0.36		12.2 - 22.6	P 17.37	1.61		20
Beckman Access luminometric	8	0.4 - 2.2	C 1.29	0.16		9.4 - 17.4	P 13.40	0.81		59
J&J Vitros ECi luminometric	9	0.4 - 2.2	C 1.26	0.28		9.8 - 18.3	P 14.06	1.21		16
MP Bio SimulTRAC-SNB RIA	10	0.7 - 2.5	C 1.59	0.72		10.8 - 20.0	P 15.40	2.26		13
Roche Elecsys, Folate II	11	1.5 - 3.3	C 2.35	0.53		10.4 - 19.3	P 14.84	1.41		24
Siemens luminometric	12	0.8 - 2.6	C 1.71	0.33		11.2 - 20.8	P 15.99	5.25		10
Siemens Immulite	13	0.8 - 2.6	C 1.69	0.32		11.3 - 21.1	P 16.21	1.77		20
Siemens Immulite 2000	14	0.8 - 2.6	C 1.66	0.22		10.8 - 20.0	P 15.36	1.06		20
Tosoh AIA Pack fluorometric	15	1.5 - 3.3	C 2.37	0.43		7.3 - 13.5	P 10.39	0.88		15

Initial Grouping by Sensitivity or Principle

Immunofluorometric-not FPIA	16	1.5 - 3.3	C 2.40	0.39		10.1 - 18.8	P 14.50	3.73		35
Luminometric	17	0.7 - 2.5	C 1.62	0.52		10.2 - 18.9	P 14.55	2.48		163
Radiometric	18	0.6 - 2.4	C 1.53	0.73		10.8 - 20.0	P 15.40	2.26		13
Total Population										
Whole Population	19	0.7 - 2.5	C 1.60	0.30		10.1 - 18.8	P 14.43	1.98		222

Homocysteine

Initial Grouping by Reagent

Diazyme	1	32.3 - 48.4	P 40.32	3.52		13.3 - 19.9	P 16.59	1.08		17
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Initial Grouping by Sensitivity or Principle

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
AxSYM	3	1.6 - 3.4	C	2.54	0.20	22.9 - 42.6	P	32.77	2.20	17
Beckman Access luminometric & Beckman Access luminometer	4	2.2 - 4.1	P	3.13	0.14	30.1 - 55.8	P	42.94	2.07	95
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	5	2.2 - 4.1	P	3.16	0.24	30.4 - 56.5	P	43.46	3.13	52
J&J Vitros ECi luminometric & J&J Vitros ECi	6	0.9 - 2.7	C	1.76	0.09	14.7 - 27.2	P	20.95	1.09	21
Qual FastPack, FastPack IP & Qualigen FastPack	7	2.3 - 4.3	P	3.32	0.47	35.0 - 65.0	P	50.00	0.00	12
Roche Elecsys luminometric & Roche Elecsys series	8	2.1 - 4.0	P	3.07	0.20	28.4 - 52.7	P	40.52	2.21	24
Roche Elecsys luminometric & Roche e411/e601/E170/E2010	9	2.2 - 4.0	P	3.09	0.08	28.5 - 53.0	P	40.78	2.19	10
Siemens Flex TPSA & Siemens Dimension Rxl	10	1.8 - 3.6	C	2.68	0.10	27.2 - 50.5	P	38.85	1.11	13
Siemens Flex TPSA & Siemens Dimension Xpand	11	1.7 - 3.5	C	2.64	0.16	26.5 - 49.1	P	37.79	1.55	46
Siemens Flex TPSA & Siemens Dimension EXL	12	1.7 - 3.5	C	2.64	0.21	26.2 - 48.7	P	37.46	1.70	13
Siemens Immulite & Siemens Immulite 2000	13	1.9 - 3.6	C	2.75	0.30	25.5 - 47.3	P	36.37	3.14	30
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	14	1.4 - 3.2	C	2.34	0.14	21.5 - 39.9	P	30.72	1.39	33
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	15	1.5 - 3.3	C	2.38	0.10	21.6 - 40.1	P	30.84	1.43	30
Initial Grouping by Reagent										
Abbott Aeroset/Architect	16	1.8 - 3.6	C	2.71	0.14	27.0 - 50.2	P	38.58	5.12	13
Abbott 1st gen MEIA	17	1.6 - 3.4	C	2.46	0.11	23.0 - 42.8	P	32.92	2.57	20
Abbott WHO std. ADV/Total	18	1.6 - 3.4	C	2.54	0.20	22.9 - 42.6	P	32.77	2.20	17
Beckman Access luminometric	19	2.2 - 4.1	P	3.13	0.15	30.0 - 55.7	P	42.83	2.11	104
bioMerieux Vidas fluorometr	20	2.2 - 4.1	P	3.17	0.23	30.4 - 56.5	P	43.47	3.04	55
J&J Vitros ECi luminometric	21	0.8 - 2.6	C	1.74	0.09	14.4 - 26.8	P	20.63	1.12	29
Qual FastPack, FastPack IP	22	2.3 - 4.3	P	3.31	0.46	32.3 - 60.1	P	46.20	0.00	13
Roche Elecsys luminometric	23	2.1 - 4.0	P	3.05	0.17	28.1 - 52.2	P	40.17	2.09	47
Siemens CrO2	24	1.8 - 3.6	C	2.69	0.23	26.8 - 49.8	P	38.28	2.68	20
Siemens chemiluminometric	25	1.6 - 3.4	C	2.51	0.12	25.0 - 46.5	P	35.75	2.61	10
Siemens Flex TPSA	26	1.7 - 3.5	C	2.65	0.15	26.5 - 49.3	P	37.92	1.59	110
Siemens Immulite	27	2.0 - 3.8	C	2.94	0.37	26.6 - 49.4	P	37.97	3.42	61
Tosoh AIA Pack fluorometric	28	1.5 - 3.3	C	2.36	0.12	21.5 - 40.0	P	30.74	1.44	66
Initial Grouping by Sensitivity or Principle										
Very low recovery methods	29	0.9 - 2.7	C	1.84	0.23	15.3 - 28.5	P	21.89	3.64	36
Low recovery methods	30	1.8 - 3.6	C	2.68	0.33	25.8 - 47.9	P	36.86	5.01	251
Moderate recovery methods	31	2.0 - 3.8	C	2.88	0.31	27.0 - 50.1	P	38.51	3.28	160
High recovery methods	32	1.9 - 3.7	C	2.80	0.51	23.0 - 42.8	P	32.92	2.57	33

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
All other methods	33	2.2 - 4.1	P	3.13	0.15	30.0 - 55.7	P	42.83	2.11	104
Total Population										
Whole Population	34	1.9 - 3.7	C	2.81	0.35	26.8 - 49.8	P	38.30	4.72	598

Testosterone

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	83.0 - 154.0	P	118.5	7.4	772.0 - 1433.0	P	1102.2	67.0	36
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	173.0 - 321.0	P	246.6	22.1	798.0 - 1482.0	P	1139.9	38.8	11
Roche Elecsys luminometric & Roche Elecsys series	3	100.0 - 186.0	P	143.2	16.4	850.0 - 1579.0	P	1214.9	95.1	10
Siemens Immulite & Siemens Immulite 2000	4	124.0 - 231.0	P	177.4	18.4	699.0 - 1297.0	P	998.0	87.7	28
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	5	105.0 - 195.0	P	150.1	14.9	963.0 - 1789.0	P	1375.9	117.0	12

Initial Grouping by Reagent

Beckman Access luminometric	6	83.0 - 154.0	P	118.2	7.5	769.0 - 1427.0	P	1098.0	70.5	38
bioMerieux Vidas fluorometr	7	173.0 - 321.0	P	246.6	22.1	798.0 - 1482.0	P	1139.9	38.8	11
Roche Elecsys luminometric	8	99.0 - 184.0	P	141.8	14.4	850.0 - 1578.0	P	1213.7	75.5	20
Siemens luminometric	9	84.0 - 156.0	P	120.1	12.1	884.0 - 1641.0	P	1262.5	180.1	10
Siemens Immulite	10	126.0 - 233.0	P	179.4	19.0	750.0 - 1393.0	P	1071.2	141.4	43
Tosoh AIA Pack fluorometric	11	106.0 - 196.0	P	150.9	14.3	949.0 - 1762.0	P	1355.6	109.5	21

Initial Grouping by Sensitivity or Principle

Immunofluorometric-not FPIA	12	118.0 - 219.0	P	168.4	52.4	835.0 - 1550.0	P	1192.2	262.7	41
Luminometric	13	102.0 - 189.0	P	145.8	30.2	796.0 - 1479.0	P	1137.4	136.5	117

Total Population

Whole Population	14	101.0 - 187.0	P	143.9	26.0	807.0 - 1499.0	P	1153.1	147.1	170
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Triiodothyronine, Free (FT3)

Initial Grouping by Reagent

Beckman Access luminometric	1	2.3 - 4.3	P	3.30	0.30	2.6 - 4.8	P	3.71	0.28	38
Roche Elecsys luminometric	2	2.3 - 4.3	P	3.30	0.13	2.9 - 5.5	P	4.20	0.20	13
Siemens luminometric	3	2.7 - 5.0	P	3.86	0.29	2.6 - 4.9	P	3.74	0.16	10
Siemens Immulite	4	1.9 - 3.5	P	2.68	0.28	3.2 - 5.9	P	4.56	0.40	28

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	5	2.6 - 4.8	P	3.71	1.00	2.6 - 4.9	P	3.75	0.57	16
Luminometric	6	2.3 - 4.3	P	3.27	1.03	2.9 - 5.3	P	4.08	0.52	91
Radiometric	7	2.4 - 4.4	P	3.41	1.09	2.6 - 4.8	P	3.70	0.37	13
Total Population										
Whole Population	8	2.2 - 4.1	P	3.18	0.50	2.8 - 5.2	P	3.97	0.49	126
Vitamin B12										
Initial Grouping by Reagent and Instrument										
Abbott MEIA fluorometric & Abbott AxSYM	1	305.0 - 567.0	P	436.2	24.7	830.0 - 1542.0	P	1185.8	90.4	18
Beckman Access luminometric & Beckman Access luminometer	2	297.0 - 551.0	P	423.8	25.5	950.0 - 1765.0	P	1357.5	134.6	62
J&J Vitros ECi luminometric & J&J Vitros ECi	3	347.0 - 645.0	P	496.4	29.5	695.0 - 1290.0	P	992.3	21.5	10
MP Bio SimulTRAC-SNB & All gamma counters	4	338.0 - 628.0	P	483.2	52.6	1137.0 - 2113.0	P	1625.0	123.0	12
Roche Elecsys luminometric & Roche Elecsys series	5	293.0 - 544.0	P	418.6	44.0	1060.0 - 1968.0	P	1514.2	87.7	17
Siemens Immulite 2000 & Siemens Immulite 2000	6	258.0 - 479.0	P	368.2	34.4	748.0 - 1390.0	P	1069.3	133.4	24
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	7	382.0 - 710.0	P	546.0	43.2	1057.0 - 1964.0	P	1510.6	111.0	14
Initial Grouping by Reagent										
Abbott MEIA fluorometric	8	305.0 - 567.0	P	436.2	24.7	830.0 - 1542.0	P	1185.8	90.4	18
Beckman Access luminometric	9	296.0 - 549.0	P	422.3	26.8	948.0 - 1760.0	P	1353.7	135.2	68
J&J Vitros ECi luminometric	10	339.0 - 630.0	P	484.4	32.6	684.0 - 1270.0	P	976.8	37.7	17
MP Bio SimulTRAC-SNB	11	338.0 - 628.0	P	483.2	52.6	1137.0 - 2113.0	P	1625.0	123.0	12
Roche Elecsys luminometric	12	300.0 - 557.0	P	428.5	54.7	1024.0 - 1901.0	P	1462.7	108.4	34
Siemens Immulite	13	278.0 - 517.0	P	397.4	53.6	775.0 - 1439.0	P	1107.3	115.4	19
Siemens Immulite 2000	14	258.0 - 479.0	P	368.2	34.4	748.0 - 1390.0	P	1069.3	133.4	24
Tosoh AIA Pack fluorometric	15	383.0 - 712.0	P	547.7	40.2	1055.0 - 1960.0	P	1507.3	113.8	18
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	16	345.0 - 642.0	P	493.5	65.5	949.0 - 1763.0	P	1356.0	192.2	36
Luminometric	17	294.0 - 546.0	P	419.7	50.6	904.0 - 1679.0	P	1291.3	209.6	183

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Radiometric	18	323.0 - 600.0 P	461.8	64.4	1133.0 - 2104.0 P	1618.7	121.4	16
Total Population								
Whole Population	19	303.0 - 563.0 P	433.1	56.7	926.0 - 1719.0 P	1322.7	214.8	244