



AMERICAN ASSOCIATION OF BIOANALYSTS
 205 West Levee St. Brownsville, TX 78520
 (281) 436-5357 - (800) 234-5315 - Fax (713) 781-5008

PARTICIPANT STATISTICS

SPECIAL CHEMISTRY

Chemistry Q1 2010

Name	Line No.	Specimen 1			Specimen 2			No. Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Ferritin										
Initial Grouping by Reagent and Instrument										
Abbott MEIA fluorometric & Abbott AxSYM	1	45-83	P	63.8	6	240-446	P	343.2	42	24
Beckman Access luminometric & Beckman Access luminometer	2	31-58	P	44.7	3	170-315	P	242.3	14	75
J&J Vitros ECI luminometric & J&J Vitros ECI	3	27-51	P	39.0	2	141-261	P	201.1	11	16
Roche Elecsys luminometric & Roche Elecsys series	4	38-71	P	54.3	4	206-383	P	294.4	18	14
Siemens luminometric & Siemens Centaur/Centaur CP	5	39-73	P	55.8	4	222-412	P	316.6	15	15
Siemens CrO2 & Siemens Dimension series	6	36-68	P	52.1	2	190-354	P	272.1	9	16
Siemens CrO2 & Siemens Dimension Xpand	7	37-68	P	52.4	1	189-351	P	270.1	6	10
Siemens Coat-A-Count IRMA & All gamma counters	8	23-43	P	33.3	5	125-233	P	179.0	47	10
Siemens Immulite & Siemens Immulite/Immul 1000	9	35-65	P	49.8	3	180-335	P	257.7	16	19
Siemens Immulite & Siemens Immulite 2000	10	36-66	P	51.0	3	181-335	P	257.9	15	33
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	11	29-53	P	41.1	2	166-308	P	236.9	10	14
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	12	29-54	P	41.3	3	163-302	P	232.5	12	15
Initial Grouping by Reagent										
Abbott MEIA fluorometric	13	52-96	P	73.8	44	232-430	P	331.0	72	24
Beckman Access luminometric	14	31-58	P	44.7	3	170-316	P	242.8	15	81
J&J Vitros ECI luminometric	15	27-50	P	38.7	2	139-258	P	198.7	12	19
Roche Elecsys luminometric	16	38-70	P	53.9	3	204-379	P	291.4	16	21
Siemens luminometric	17	38-71	P	54.4	6	212-394	P	303.2	35	20
Siemens CrO2	18	37-68	P	52.3	2	189-350	P	269.6	10	37
Siemens Coat-A-Count IRMA	19	23-42	P	32.5	6	122-226	P	174.1	47	11
Siemens Immulite	20	41-77	P	59.0	61	181-336	P	258.5	15	54
Tosoh AIA Pack fluorometric	21	29-54	P	41.3	3	165-306	P	235.1	11	30
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	22	36-67	P	51.3	28	181-336	P	258.4	70	83
Luminometric	23	36-67	P	51.4	34	183-339	P	261.1	29	180
Turbidimetric	24	29-53	P	40.8	8	145-269	P	206.7	22	13
Radiometric	25	23-42	P	32.2	5	122-227	P	174.6	45	12
Spectrophotometric	26	37-69	P	52.9	3	190-353	P	271.8	13	45
Total Population										
Whole Population	27	34-63	P	48.6	7	180-334	P	257.2	34	351



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Chemistry Q1 2010

Name	Line No.	Specimen 1			Specimen 2			Mean	SD	No. Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Folate										
Initial Grouping by Reagent and Instrument										
Abbott ion capture FIA & Abbott AxSYM	1	1.3-3.1	C	2.25	0.5	11.0-20.4	P	15.70	1.0	26
Beckman Access luminometric & Beckman Access luminometer	2	0.0-1.5	C	0.63	0.1	8.5-15.9	P	12.20	1.0	62
J&J Vitros ECI luminometric & J&J Vitros ECI	3	0.1-1.9	C	1.00	0.3	7.8-14.4	P	11.07	1.9	12
MP Bio SimuTRAC-SNB RIA & All gamma counters	4	0.0-1.8	C	0.94	0.3	8.9-16.6	P	12.77	1.2	16
Roche Elecsys, Folate II & Roche Elecsys series	5	1.1-2.9	C	1.97	0.7	9.7-18.1	P	13.91	2.1	14
Siemens Immulite & Siemens Immulite/Imm 1000	6	0.1-1.9	C	1.02	0.0	9.5-17.6	P	13.55	1.3	13
Siemens Immulite & Siemens Immulite 2000	7	0.1-1.9	C	1.00	0.0	8.6-16.0	P	12.35	1.2	11
Siemens Immulite 2000 & Siemens Immulite 2000	8	0.1-1.9	C	1.00	0.0	8.7-16.1	P	12.41	1.3	15
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	9	1.0-2.8	C	1.91	0.5	6.7-12.5	P	9.61	1.1	15
Initial Grouping by Reagent										
Abbott ion capture FIA	10	1.9-3.7	C	2.78	3.0	10.6-19.7	P	15.18	2.8	26
Beckman Access luminometric	11	0.0-1.5	C	0.63	0.2	8.5-15.8	P	12.13	1.0	69
J&J Vitros ECI luminometric	12	0.1-1.9	C	1.04	0.3	7.8-14.5	P	11.14	1.8	14
MP Bio SimuTRAC-SNB RIA	13	0.1-1.9	C	0.96	0.3	8.9-16.6	P	12.75	1.2	19
Roche Elecsys, Folate II	14	1.1-2.9	C	1.99	0.6	9.6-17.7	P	13.65	2.0	24
Siemens Immulite	15	0.1-1.9	C	1.01	0.0	9.1-16.9	P	13.00	1.4	24
Siemens Immulite 2000	16	0.1-1.9	C	1.00	0.0	8.7-16.1	P	12.41	1.3	15
Tosoh AIA Pack fluorometric	17	0.9-2.7	C	1.78	0.5	7.0-12.9	P	9.94	1.6	22
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	18	1.4-3.2	C	2.31	2.3	8.9-16.6	P	12.78	3.5	48
Luminometric	19	0.1-1.9	C	1.00	0.6	9.0-16.8	P	12.89	3.3	158
Radiometric	20	0.0-1.8	C	0.89	0.4	8.9-16.6	P	12.75	1.2	19
Total Population										
Whole Population	21	0.2-2.0	C	1.11	0.2	8.8-16.4	P	12.62	1.8	250



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Name	Line No.	Specimen 1			Specimen 2			No. Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Triiodothyronine, Free (FT3)										
Initial Grouping by Reagent										
Abbott MEIA fluorometric	1	2.5-4.7	P	3.61	0.3	2.5-4.7	P	3.60	0.3	13
Beckman Access luminometric	2	2.4-4.5	P	3.45	0.2	2.7-4.9	P	3.79	0.3	32
Roche Elecsys luminometric	3	2.4-4.4	P	3.36	0.2	3.0-5.6	P	4.33	0.2	13
Siemens luminometric	4	2.9-5.4	P	4.18	0.2	2.8-5.2	P	3.96	0.2	11
Siemens Immulite	5	1.9-3.5	P	2.67	0.3	3.4-6.4	P	4.90	0.5	32
Tosoh AIA Pack fluorometric	6	3.6-6.6	P	5.08	0.4	3.2-6.0	P	4.60	0.2	11
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	7	3.0-5.5	P	4.24	0.9	2.9-5.5	P	4.20	0.8	24
Luminometric	8	2.4-4.5	P	3.43	1.2	3.0-5.6	P	4.33	0.7	86
Radiometric	9	2.5-4.7	P	3.64	1.1	2.8-5.2	P	3.99	0.2	14
Total Population										
Whole Population	10	2.4-4.4	P	3.41	0.6	3.0-5.5	P	4.25	0.6	129



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		Range & Type	Mean	SD	Range & Type	Mean	SD			
Homocysteine										
Initial Grouping by Reagent and Instrument										
Siemens Immulite & Siemens Immulite 2000	1	33.0-49.6	P	41.31	3.0	13.0-19.6	P	16.30	1.2	10
Initial Grouping by Reagent										
Carolina 3 part rgt	2	32.4-48.5	P	40.44	2.1	13.6-20.4	P	16.96	2.5	10
Siemens Immulite	3	33.0-49.6	P	41.31	3.0	13.0-19.6	P	16.30	1.2	11
Initial Grouping by Sensitivity or Principle										
enzymatic	4	32.0-48.0	P	39.96	2.4	13.5-20.2	P	16.84	1.8	29
Luminometric	5	30.4-45.6	P	37.96	5.0	12.3-18.5	P	15.40	1.7	18
Total Population										
Whole Population	6	31.5-47.3	P	39.40	3.4	13.2-19.8	P	16.53	1.8	64



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		Range & Type				Range & Type				
Prolactin										
Initial Grouping by Reagent and Instrument										
Beckman Access luminometric & Beckman Access luminometer	1	6-14	C	10.0	0	45-84	P	64.4	4	25
Roche Elecsys luminometric & Roche Elecsys series	2	8-16	P	12.0	1	65-121	P	92.8	9	13
Siemens luminometric & Siemens Centaur/Centaur CP	3	5-12	C	8.8	1	46-85	P	65.2	6	11
Siemens Immulite & Siemens Immulite/Immupoint 1000	4	7-14	C	10.1	1	50-93	P	71.5	6	32
Siemens Immulite & Siemens Immulite 2000	5	5-12	C	8.8	1	42-79	P	60.5	4	32
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	6	7-14	C	10.4	1	46-86	P	65.8	5	17
Initial Grouping by Reagent										
Beckman Access luminometric	7	7-14	C	10.2	1	46-85	P	65.6	7	29
Roche Elecsys luminometric	8	8-16	P	12.0	1	63-118	P	90.6	6	19
Siemens luminometric	9	5-12	C	8.8	1	46-85	P	65.5	6	13
Siemens Immulite	10	7-14	C	10.4	7	46-85	P	65.4	10	65
Tosoh AIA Pack fluorometric	11	7-14	C	10.3	1	46-86	P	66.0	5	18
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	12	7-14	C	10.2	2	47-88	P	67.7	12	31
Luminometric	13	7-14	C	10.4	5	49-90	P	69.3	12	141
Total Population										
Whole Population	14	6-14	C	10.0	1	48-89	P	68.6	9	182



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		Range & Type	Mean	SD	Range & Type	Mean	SD			
Prostate-Specific Antigen, Total										
Initial Grouping by Reagent and Instrument										
Abbott 1st gen MEIA & Abbott AxSYM	1	1.7-3.5	C	2.64	0.1	21.9-40.6	P	31.24	1.6	32
Abbott 1st gen MEIA & Abbott IMx	2	1.7-3.5	C	2.65	0.1	22.0-40.8	P	31.36	1.9	18
Abbott WHO std. ADV/Total & Abbott AxSYM	3	1.7-3.5	C	2.62	0.2	21.8-40.4	P	31.11	1.8	27
Beckman Access luminometric & Beckman Access luminometer	4	2.2-4.1	P	3.15	0.2	26.9-50.0	P	38.45	2.0	101
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	5	2.3-4.3	P	3.33	0.3	28.4-52.8	P	40.58	3.0	45
J&J Vitros ECI luminometric & J&J Vitros ECI	6	0.8-2.6	C	1.71	0.1	12.9-23.9	P	18.41	1.1	27
Qualigen FastPack & Qualigen FastPack	7	2.5-4.6	P	3.55	0.8	35.0-65.0	P	50.00	0.0	11
Roche Elecsys luminometric & Roche Elecsys series	8	2.2-4.1	P	3.14	0.2	26.4-49.1	P	37.78	2.9	29
Siemens CrO2 & Siemens Dimension series	9	1.9-3.7	C	2.78	0.2	25.6-47.6	P	36.58	1.9	12
Siemens Flex TPSA & Siemens Dimension series	10	2.0-3.7	C	2.85	0.2	25.8-47.8	P	36.80	2.1	46
Siemens Flex TPSA & Siemens Dimension Rxl	11	1.9-3.7	C	2.82	0.2	25.8-47.9	P	36.82	1.9	13
Siemens Flex TPSA & Siemens Dimension Xpand	12	1.9-3.7	C	2.78	0.1	25.4-47.2	P	36.27	2.2	47
Siemens Immulite & Siemens Immulite/Immul 1000	13	2.3-4.3	P	3.32	0.3	25.5-47.4	P	36.45	2.7	32
Siemens Immulite & Siemens Immulite 2000	14	2.1-3.9	P	3.01	0.3	24.2-45.0	P	34.64	2.6	29
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	15	1.6-3.4	C	2.52	0.2	20.9-38.7	P	29.79	2.1	36
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	16	1.6-3.4	C	2.50	0.1	20.4-37.9	P	29.13	1.3	30
Initial Grouping by Reagent										
Abbott 1st gen MEIA	17	2.5-4.7	P	3.62	5.0	21.5-39.9	P	30.71	4.4	50
Abbott WHO std. ADV/Total	18	1.7-3.5	C	2.63	0.2	21.8-40.6	P	31.20	1.8	35
Beckman Access luminometric	19	2.2-4.1	P	3.15	0.2	26.8-49.7	P	38.24	2.3	111
bioMerieux Vidas fluorometr	20	2.8-5.3	P	4.06	5.1	28.1-52.1	P	40.09	6.4	48
J&J Vitros ECI luminometric	21	0.9-2.7	C	1.75	0.3	13.3-24.7	P	18.97	4.0	31
Qualigen FastPack	22	2.5-4.7	P	3.61	0.7	35.0-65.0	P	50.00	0.0	14
Roche Elecsys luminometric	23	2.2-4.1	P	3.14	0.2	26.4-49.0	P	37.68	2.5	44
Siemens CrO2	24	1.9-3.7	C	2.78	0.2	25.7-47.7	P	36.72	1.8	21
Siemens chemiluminometric	25	1.8-3.6	C	2.69	0.2	23.3-43.4	P	33.35	1.7	12
Siemens Flex TPSA	26	2.2-4.1	P	3.14	3.5	25.4-47.1	P	36.23	3.8	113
Siemens Immulite	27	2.2-4.1	P	3.18	0.3	24.4-45.3	P	34.88	4.3	63
Tosoh AIA Pack fluorometric	28	1.6-3.4	C	2.52	0.2	22.9-42.6	P	32.75	26.6	68
Initial Grouping by Sensitivity or Principle										
Very low recovery methods	29	1.0-2.8	C	1.91	0.4	14.6-27.1	P	20.82	5.4	39
Low recovery methods	30	2.2-4.0	P	3.09	3.2	24.8-46.1	P	35.44	14.2	267
Moderate recovery methods	31	2.1-3.9	P	3.03	0.3	24.9-46.3	P	35.62	3.7	155
High recovery methods	32	2.5-4.6	P	3.54	4.4	24.6-45.7	P	35.12	9.0	65
All other methods	33	2.2-4.1	P	3.15	0.2	26.7-49.6	P	38.14	2.5	111
Total Population										
Whole Population	34	2.0-3.8	C	2.93	0.4	24.7-46.0	P	35.35	4.0	660



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		Range & Type	Mean	SD	Range & Type	Mean	SD			
Testosterone										
Initial Grouping by Reagent and Instrument										
Abbott MEIA fluorometric & Abbott AxSYM	1	64-119	P	91.9	15	526-977	P	751.4	81	11
Beckman Access luminometric & Beckman Access luminometer	2	74-137	P	105.5	6	674-1251	P	962.7	45	34
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	3	139-258	P	198.6	32	646-1200	P	922.9	76	10
Roche Elecsys luminometric & Roche Elecsys series	4	82-152	P	117.2	11	691-1284	P	987.6	31	11
Siemens Immulite & Siemens Immulite/Immul 1000	5	154-286	P	219.6	27	688-1278	P	982.9	132	14
Siemens Immulite & Siemens Immulite 2000	6	141-261	P	201.1	20	593-1102	P	847.7	73	32
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	7	94-174	P	133.7	15	795-1477	P	1136.0	136	16
Initial Grouping by Reagent										
Abbott MEIA fluorometric	8	64-119	P	91.9	15	526-977	P	751.4	81	11
Beckman Access luminometric	9	74-137	P	105.7	6	674-1252	P	962.8	48	38
bioMerieux Vidas fluorometr	10	140-260	P	199.8	31	644-1196	P	920.1	72	11
Roche Elecsys luminometric	11	86-160	P	122.8	13	700-1301	P	1000.6	42	16
Siemens luminometric	12	75-139	P	106.7	13	680-1263	P	971.8	141	12
Siemens Coat-A-Count RIA	13	84-156	P	119.6	13	746-1386	P	1065.9	64	11
Siemens Immulite	14	146-271	P	208.5	25	629-1169	P	899.2	119	48
Tosoh AIA Pack fluorometric	15	94-175	P	134.7	14	806-1496	P	1150.9	153	20
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	16	98-182	P	139.7	42	675-1253	P	963.8	208	47
Luminometric	17	107-198	P	152.5	59	655-1217	P	936.3	114	121
Radiometric	18	79-147	P	113.3	18	733-1361	P	1047.3	75	16
Total Population										
Whole Population	19	90-166	P	127.9	29	666-1237	P	951.3	125	187



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		Range & Type	Mean	SD	Range & Type	Mean	SD			
Vitamin B12										
Initial Grouping by Reagent and Instrument										
Abbott MEIA fluorometric & Abbott AxSYM	1	328-609	P	468.4	32	797-1481	P	1139.2	68	26
Beckman Access luminometric & Beckman Access luminometer	2	317-588	P	452.3	27	840-1560	P	1200.1	168	71
J&J Vitros ECI luminometric & J&J Vitros ECI	3	369-686	P	527.4	38	689-1279	P	983.6	27	14
MP Bio SimuTRAC-SNB & All gamma counters	4	339-629	P	483.9	30	970-1802	P	1385.9	144	15
Roche Elecsys luminometric & Roche Elecsys series	5	301-560	P	430.6	46	969-1800	P	1384.7	95	19
Siemens Immulite & Siemens Immulite/Immul 1000	6	318-591	P	454.9	40	773-1435	P	1104.2	73	12
Siemens Immulite & Siemens Immulite 2000	7	274-508	P	390.9	32	737-1369	P	1053.5	122	11
Siemens Immulite 2000 & Siemens Immulite 2000	8	272-506	P	389.0	33	702-1304	P	1003.0	46	24
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	9	429-796	P	612.3	33	1004-1865	P	1434.8	198	16
Initial Grouping by Reagent										
Abbott MEIA fluorometric	10	348-645	P	496.5	147	782-1452	P	1117.1	131	26
Beckman Access luminometric	11	317-589	P	452.7	27	836-1552	P	1194.0	170	79
J&J Vitros ECI luminometric	12	365-678	P	521.7	38	687-1277	P	982.1	27	17
MP Bio SimuTRAC-SNB	13	335-622	P	478.1	35	957-1778	P	1367.4	140	18
Roche Elecsys luminometric	14	309-575	P	442.0	45	954-1772	P	1363.2	89	32
Siemens Immulite	15	297-552	P	424.3	48	756-1404	P	1079.9	101	23
Siemens Immulite 2000	16	272-506	P	389.0	33	721-1340	P	1030.7	108	24
Tosoh AIA Pack fluorometric	17	425-790	P	607.7	33	1001-1860	P	1430.7	198	23
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	18	384-713	P	548.7	122	885-1644	P	1264.3	228	49
Luminometric	19	334-620	P	477.1	394	829-1539	P	1184.0	184	195
Radiometric	20	353-655	P	503.9	65	968-1797	P	1382.3	147	22
Total Population										
Whole Population	21	327-608	P	467.8	64	844-1568	P	1206.1	181	277