

New York State Proficiency Test May 2007
Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
CA125 all lab mean:							CA125 Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:						
mean	68.9	37.3	43.0	34.9	25.3		mean	68.7	37.5	42.5	35.0	26.0	
SD	7.0	4.0	4.7	3.8	3.0		SD	3.5	1.5	2.0	1.6	1.3	
%CV	10.2%	10.7%	11.0%	10.8%	12.0%		%CV	5.1%	4.1%	4.8%	4.7%	4.9%	
N	121	122	123	122	122		N	31	31	31	31	31	
mean+3SD	90.0	49.4	57.3	46.2	34.3		mean+3SD	79.2	42.1	48.6	39.9	29.8	
mean-3SD	47.9	25.3	28.8	23.6	16.2		mean-3SD	58.1	32.8	36.4	30.1	22.1	
mean/all kit median	0.98	1.00	1.00	1.01	0.98	0.99	kit median	69.2	37.0	42.4	35.0	26.0	
							mean/all kit median	0.98	1.00	0.99	1.01	1.00	1.00
CA125 TOSOH ST A1A-pack (TOM/TO2) mean:							CA125 DPC Immulite 1000 (DPB/DP5) mean:						
mean	90.3	44.6	53.2	43.6	33.8		mean	71.5	37.7	42.8	34.6	25.8	
N	2	2	2	2	2		SD	1.6	2.0	3.3	1.4	2.7	
mean/all kit median	1.29	1.19	1.24	1.26	1.31	1.26	%CV	2.2%	5.2%	7.8%	4.1%	10.4%	
							N	5	5	5	5	5	
							mean+3SD	76.2	43.6	52.8	38.9	33.9	
CA125 TOSOH AIA (TOM/TO1) mean:							mean-3SD	66.7	31.8	32.8	30.4	17.8	
mean	79.7	42.4	47.9	39.4	30.0		kit median	71.5	37.0	42.2	34.5	24.7	
SD	3.8	0.7	1.7	2.1	0.4		mean/all kit median	1.02	1.01	1.00	1.00	1.00	1.00
%CV	4.7%	1.7%	3.6%	5.4%	1.2%								
N	4	4	4	4	4		CA125 DPC Immulite 2500 (DPF/DP5) mean:						
mean+3SD	91.0	44.5	53.0	45.8	31.1		mean	70.2	37.2	43.6	33.8	24.6	
mean-3SD	68.3	40.2	42.7	33.0	28.9		SD	1.9	0.5	1.0	1.0	0.9	
kit median	80.0	42.4	48.4	39.3	30.0		%CV	2.7%	1.4%	2.3%	3.1%	3.6%	
mean/all kit median	1.13	1.13	1.12	1.14	1.16	1.14	N	5	5	5	5	5	
							mean+3SD	76.0	38.8	46.5	36.9	27.2	
CA125 Beckman Unicel & Access (BCU & BCX/BC1) mean:							mean-3SD	64.5	35.6	40.6	30.7	22.0	
mean	76.1	42.8	47.3	39.1	26.9		kit median	70.5	37.0	43.8	33.6	24.4	
SD	3.1	2.6	2.0	2.0	1.4		mean/all kit median	1.00	0.99	1.02	0.98	0.95	0.99
%CV	4.0%	6.0%	4.2%	5.1%	5.2%								
N	11	11	11	11	11		CA125 DPC Immulite 2000 (DPD/DP5) mean:						
mean+3SD	85.4	50.4	53.3	45.1	31.2		mean	69.3	36.9	42.9	34.2	24.4	
mean-3SD	66.9	35.1	41.3	33.0	22.7		SD	5.3	2.9	3.1	2.4	1.4	
kit median	75.5	42.4	47.5	39.0	27.0		%CV	7.6%	7.7%	7.3%	7.1%	5.6%	
mean/all kit median	1.08	1.14	1.10	1.13	1.04	1.10	N	25	25	25	25	24	
							mean+3SD	85.2	45.5	52.3	41.5	28.5	
CA125 Abbott Asxym (ABB/AB1) mean:							mean-3SD	53.5	28.3	33.5	26.9	20.3	
mean	73.2	40.2	48.4	38.1	28.5		kit median	70.0	37.4	43.4	34.2	24.5	
SD	4.8	3.4	4.0	3.3	3.0		mean/all kit median	0.99	0.98	1.00	0.99	0.94	0.98
%CV	6.5%	8.4%	8.3%	8.7%	10.6%								
N	16	15	16	16	16								
mean+3SD	87.4	50.3	60.5	48.1	37.6								
mean-3SD	58.9	30.1	36.4	28.2	19.5								
kit median	73.9	39.9	48.7	37.9	28.4								
mean/all kit median	1.04	1.07	1.13	1.10	1.10	1.09							

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
CA125 Roche Elecsys & E170 (BME & BMR/BM1) mean:							CA125 Johnson & Johnson Vitros (JJC/JJ1) mean:						
mean	59.1	31.9	36.6	30.4	22.3		mean	61.0	32.0	36.2	29.1	20.1	
SD	3.0	1.7	2.0	1.8	1.2		SD	3.9	1.5	1.6	1.9	1.4	
%CV	5.1%	5.5%	5.5%	6.1%	5.6%		%CV	6.4%	4.7%	4.3%	6.6%	6.8%	
N	16	17	17	16	17		N	5	5	5	5	5	
mean+3SD	68.1	37.1	42.7	35.9	26.0		mean+3SD	72.8	36.5	41.0	34.9	24.2	
mean-3SD	50.0	26.7	30.6	24.8	18.5		mean-3SD	49.2	27.5	31.5	23.4	15.9	
kit median	59.4	32.0	36.3	30.5	22.2		kit median	61.0	32.3	37.0	30.0	20.5	
mean/all kit median	0.84	0.85	0.85	0.88	0.86	0.86	mean/all kit median	0.87	0.85	0.85	0.84	0.78	0.84
CA125 Fujirebio/Centocor (GAA/CE1) mean:							CA125 kit average:						
mean	53.0	31.6	37.4	28.3	18.8		mean	70.2	37.7	43.5	35.0	25.6	
N	2	2	2	2	2		SD	10.2	4.5	5.4	4.7	4.3	
mean/all kit median	0.75	0.84	0.87	0.82	0.73	0.80	all kit median	70.2	37.5	42.9	34.6	25.8	
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	TM166	TM167	TM168	TM169	TM170			TM166	TM167	TM168	TM169	TM170	
CA27.29 all lab mean:							CA27.29 Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:						
mean	90.7	43.2	54.6	63.3	26.6		mean	88.5	42.4	54.0	62.3	25.5	
SD	9.0	5.1	5.7	6.4	4.3		SD	6.4	4.1	5.0	5.0	3.4	
%CV	9.9%	11.8%	10.5%	10.1%	16.2%		%CV	7.2%	9.6%	9.2%	8.1%	13.2%	
N	52	52	52	53	53		N	41	42	42	42	42	
mean+3SD	117.8	58.5	71.8	82.4	39.6		mean+3SD	107.7	54.7	68.9	77.4	35.6	
mean-3SD	63.7	28.0	37.4	44.1	13.7		mean-3SD	69.4	30.1	39.1	47.2	15.4	
mean/all kit median	0.97	0.93	0.96	0.97	0.92	0.95	kit median	89.0	43.1	54.4	62.3	25.6	
							mean/all kit median	0.95	0.92	0.95	0.96	0.88	0.93
CA27.29 TOSOH ST A1A-pack (TOM/TO2) mean:							CA27.29 Bayer/Siemens ACS-180 (COS/BA1) mean:						
mean	108.6	53.5	65.8	73.3	34.3		mean	82.6	37.3	47.0	54.8	23.7	
SD	6.5	5.1	8.3	4.2	1.6		SD	9.0	3.3	7.8	8.5	0.6	
%CV	6.0%	9.5%	12.6%	5.7%	4.7%		%CV	10.9%	8.9%	16.6%	15.5%	2.6%	
N	5	5	5	5	5		N	3	3	3	3	3	
mean+3SD	128.0	68.7	90.6	85.8	39.2		mean+3SD	109.6	47.2	70.3	80.3	25.5	
mean-3SD	89.2	38.3	40.9	60.8	29.5		mean-3SD	55.6	27.3	23.7	29.3	21.8	
kit median	111.2	51.5	64.2	75.0	34.8		kit median	79.0	36.5	43.6	51.0	23.8	
mean/all kit median	1.16	1.16	1.15	1.12	1.18	1.15	mean/all kit median	0.88	0.80	0.82	0.84	0.81	0.83
CA27.29 TOSOH AIA (TOM/TO1) mean:							CA27.29 kit average:						
mean	98.7	50.2	60.2	68.0	32.7		mean	94.6	45.8	56.7	64.6	29.0	
SD	1.2	4.2	1.2	4.4	1.5		SD	11.5	7.4	8.1	7.9	5.3	
%CV	1.2%	8.3%	1.9%	6.4%	4.5%		all kit median	93.6	46.3	57.1	65.2	29.1	
N	3	3	3	3	3								
mean+3SD	102.1	62.7	63.6	81.1	37.1								
mean-3SD	95.2	37.7	56.7	54.9	28.3								
kit median	98.1	48.0	59.6	66.0	32.4								
mean/all kit median	1.05	1.08	1.05	1.04	1.12	1.07							

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias	
CA15-3 all lab mean:	* see note below							CA15-3 Beckman Unicel & Access (BCU & BCX/BC1) mean:						
mean	79.2	37.6	46.2	53.2	25.0		mean	88.7	41.7	52.4	59.7	28.1		
SD	13.5	6.3	7.2	9.1	4.1		SD	3.3	1.2	1.3	1.2	0.8		
%CV	17.0%	16.7%	15.6%	17.1%	16.5%		%CV	3.7%	2.8%	2.5%	2.0%	2.9%		
N	42	42	42	42	42		N	6	6	6	6	6		
mean+3SD	119.7	56.4	67.8	80.4	37.4		mean+3SD	98.5	45.2	56.3	63.2	30.6		
mean-3SD	38.7	18.8	24.6	26.0	12.7		mean-3SD	78.8	38.2	48.5	56.2	25.6		
mean/all kit median	0.93	0.94	0.95	0.94	0.96	0.94	kit median	89.5	41.6	52.3	59.6	28.3		
							mean/all kit median	1.04	1.05	1.07	1.06	1.07	1.06	
CA15-3 DPC Immulite 2500 (DPF/DP5) mean:							CA15-3 Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:							
mean	194.0	90.2	110.7	126.3	63.8		mean	85.6	39.9	48.8	56.4	26.1		
SD	12.3	4.2	3.5	4.2	0.8		SD	9.6	4.3	4.7	6.3	3.2		
%CV	6.3%	4.6%	3.2%	3.3%	1.3%		%CV	11.3%	10.7%	9.7%	11.2%	12.3%		
N	3	3	3	3	3		N	20	20	20	20	20		
mean+3SD	230.9	102.8	121.2	138.8	66.2		mean+3SD	114.6	52.6	63.0	75.4	35.8		
mean-3SD	157.1	77.6	100.1	113.8	61.3		mean-3SD	56.7	27.1	34.5	37.4	16.5		
kit median	199.0	89.2	111.0	125.0	63.4		kit median	85.0	39.7	49.5	55.9	25.3		
mean/all kit median	2.27	2.26	2.27	2.24	2.44	2.30	mean/all kit median	1.00	1.00	1.00	1.00	1.00	1.00	
CA15-3 DPC Immulite 1000/2000 (DPB & DPD/DP5) mean:							CA15-3 Roche Elecsys & E170 (BME & BMR/BM1) mean:							
mean	189.7	85.8	107.8	124.6	57.7		mean	60.7	29.6	36.8	41.1	20.2		
SD	14.0	9.9	8.6	11.7	4.3		SD	5.1	2.5	2.5	4.0	1.9		
%CV	7.4%	11.6%	7.9%	9.4%	7.5%		%CV	8.4%	8.5%	6.8%	9.7%	9.3%		
N	7	7	7	7	7		N	8	8	8	8	8		
mean+3SD	231.8	115.6	133.5	159.6	70.7		mean+3SD	76.0	37.1	44.4	53.0	25.9		
mean-3SD	147.6	56.0	82.2	89.6	44.6		mean-3SD	45.4	22.0	29.3	29.2	14.5		
kit median	193.0	89.3	109.0	125.0	56.6		kit median	62.1	30.4	37.9	42.2	20.8		
mean/all kit median	2.22	2.15	2.21	2.21	2.21	2.20	mean/all kit median	0.71	0.74	0.76	0.73	0.77	0.74	
CA15-3 Abbott Asxym (ABB/AB1) mean:							CA15-3 Johnson & Johnson Vitros (JJC/JJ1) mean:							
mean	85.6	44.5	52.5	62.2	29.6		mean	64.5	28.9	36.5	42.7	19.8		
SD	7.6	2.1	2.8	5.2	2.2		SD	4.2	0.8	2.3	2.0	1.1		
%CV	8.9%	4.8%	5.3%	8.3%	7.5%		%CV	6.5%	2.6%	6.4%	4.8%	5.3%		
N	4	4	4	4	4		N	3	3	3	3	3		
mean+3SD	108.4	50.9	60.8	77.8	36.2		mean+3SD	77.1	31.2	43.5	48.8	23.0		
mean-3SD	62.8	38.1	44.1	46.6	22.9		mean-3SD	51.8	26.6	29.5	36.6	16.7		
kit median	87.5	44.4	52.8	63.6	29.1		kit median	64.0	29.0	37.0	42.0	20.0		
mean/all kit median	1.00	1.12	1.08	1.10	1.13	1.08	mean/all kit median	0.75	0.73	0.75	0.76	0.76	0.75	
* Note: The two DPC results were not included in the calculation of the all lab means or in the all kit means and medians because the results from those methods were very different from the results of all the others.							CA15-3 kit average:*							
							mean	77.0	36.9	45.4	52.4	24.8		
							SD	13.3	7.2	8.1	9.8	4.5		
							all kit median	85.6	39.9	48.8	56.4	26.1		

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
CA19-9 all lab mean:							CA19-9 Beckman Unicel (BCU/BC1) mean:						
mean	79.6	51.2	41.0	47.5	27.4		mean	63.5	40.4	32.2	37.3	20.6	
SD	19.7	14.1	10.2	11.2	7.1		SD	2.9	2.3	2.2	1.8	1.0	
%CV	24.7%	27.5%	25.0%	23.7%	25.8%		%CV	4.5%	5.6%	6.8%	4.9%	4.9%	
mean+3SD	138.6	93.4	71.6	81.2	48.6		mean+3SD	72.0	47.2	38.7	42.7	23.6	
mean-3SD	20.6	8.9	10.3	13.7	6.2		mean-3SD	54.9	33.5	25.7	31.8	17.5	
N	56	56	56	56	56		N	6	6	6	6	6	
mean/all kit median	1.25	1.30	1.31	1.29	1.33	1.30	kit median	63.9	40.1	31.7	36.7	20.1	
							mean/all kit median	1.00	1.03	1.03	1.01	1.00	1.01
CA19-9 Fujirebio/Centocor (GAA/CE1) mean:							CA19-9 Roche Elecsys & E170 (BME & BMR/BM1) mean:						
mean	100.2	71.1	46.8	56.3	36.0		mean	57.6	36.1	30.3	35.5	19.9	
N	2	2	2	2	2		SD	5.1	2.5	2.2	2.2	2.0	
mean/all kit median	1.58	1.81	1.50	1.53	1.75	1.63	%CV	8.8%	7.0%	7.4%	6.3%	10.1%	
							mean+3SD	72.8	43.8	37.0	42.1	25.9	
CA19-9 Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:							mean-3SD	42.3	28.5	23.6	28.8	13.8	
mean	95.5	62.2	49.0	56.9	33.2		N	6	6	6	6	6	
SD	8.2	5.4	3.5	4.5	2.4		kit median	58.0	36.5	30.6	36.1	20.3	
%CV	8.5%	8.7%	7.1%	8.0%	7.2%		mean/all kit median	0.91	0.92	0.97	0.96	0.97	0.95
mean+3SD	120.0	78.4	59.4	70.5	40.4		CA19-9 TOSOH A1A (TOM/TO1) mean:						
mean-3SD	71.1	45.9	38.6	43.3	26.0		mean	56.3	31.6	30.2	35.2	18.7	
N	29	29	28	29	29		N	2	2	2	2	2	
kit median	95.1	62.1	49.0	56.9	33.5		mean/all kit median	0.89	0.80	0.97	0.95	0.91	0.90
mean/all kit median	1.50	1.58	1.57	1.54	1.61	1.56	CA19-9 TOSOH ST-A1A (TOM/TO2) mean:						
							mean	46.9	26.6	26.8	30.8	16.5	
CA19-9 Beckman Access (BCX/BC1) mean:							SD	4.4	2.9	3.2	3.7	1.5	
mean	63.6	41.2	31.8	38.5	21.9		%CV	9.4%	10.9%	12.0%	12.1%	8.9%	
SD	3.4	2.3	2.1	0.4	0.6		mean+3SD	60.2	35.2	36.5	42.0	21.0	
%CV	5.4%	5.5%	6.5%	1.0%	2.6%		mean-3SD	33.7	17.9	17.1	19.7	12.1	
mean+3SD	73.9	47.9	37.9	39.8	23.6		N	3	3	3	3	3	
mean-3SD	53.3	34.4	25.6	37.3	20.2		kit median	44.8	26.0	26.0	30.0	16.0	
N	5	5	5	5	5		mean/all kit median	0.74	0.68	0.86	0.84	0.80	0.78
kit median	64.4	41.2	32.4	38.5	22.0		CA19-9 DPC Immulite 2000 (DPD/DP5) mean:						
mean/all kit median	1.00	1.05	1.02	1.05	1.06	1.04	mean	63.6	38.2	30.6	36.5	20.6	
							N	2	2	2	2	2	
CA19-9 Beckman Access (BCX/BC1) mean:							mean/all kit median	1.00	0.97	0.98	0.99	1.00	0.99
mean	63.6	41.2	31.8	38.5	21.9		CA19-9 kit average:						
SD	3.4	2.3	2.1	0.4	0.6		mean	68.4	43.4	34.7	40.9	23.4	
%CV	5.4%	5.5%	6.5%	1.0%	2.6%		SD	19.1	15.3	8.3	10.0	7.1	
mean+3SD	73.9	47.9	37.9	39.8	23.6		all kit median	63.5	39.3	31.2	36.9	20.6	
mean-3SD	53.3	34.4	25.6	37.3	20.2								
N	5	5	5	5	5								
kit median	64.4	41.2	32.4	38.5	22.0								
mean/all kit median	1.00	1.05	1.02	1.05	1.06	1.04							

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CEA all lab mean:							CEA DPC Immulite 2500 (DPF/DP5) mean:						
mean	25.3	10.5	10.8	9.0	5.4		mean	30.4	11.7	12.2	10.0	6.0	
SD	3.9	1.5	1.5	1.3	0.8		SD	1.7	0.9	0.9	0.6	0.4	
%CV	15.3%	14.3%	14.4%	14.4%	14.0%		%CV	5.4%	7.4%	7.0%	6.0%	7.3%	
mean+3SD	37.0	15.0	15.4	12.9	7.7		mean+3SD	35.3	14.3	14.8	11.8	7.3	
mean-3SD	13.7	6.0	6.1	5.1	3.1		mean-3SD	25.4	9.1	9.6	8.2	4.7	
N	181	181	182	180	178		N	3	3	3	3	3	
mean/all kit median	1.02	0.97	0.98	0.96	0.99	0.98	kit median	29.9	11.5	12.3	10.0	5.8	
							mean/all kit median	1.22	1.08	1.11	1.06	1.10	1.11
CEA TOSOH ST-AIA (TOM/TO2) mean:							CEA Bayer/Siemens ACS-180 (COS/BA1) mean:						
mean	33.2	13.9	14.9	12.2	7.6		mean	29.6	11.2	11.9	9.9	6.2	
SD	0.6	0.6	0.2	0.2	0.2		SD	6.2	1.6	1.4	1.9	0.9	
%CV	1.8%	4.2%	1.3%	1.2%	2.0%		%CV	21.0%	14.5%	11.9%	18.7%	13.8%	
mean+3SD	35.0	15.6	15.5	12.7	8.1		mean+3SD	48.2	16.1	16.1	15.5	8.7	
mean-3SD	31.4	12.1	14.3	11.8	7.2		mean-3SD	11.0	6.3	7.7	4.4	3.6	
N	3	3	3	3	3		N	3	3	3	3	3	
kit median	33.2	14.1	14.9	12.2	7.6		kit median	30.0	10.5	12.1	10.1	6.5	
mean/all kit median	1.34	1.28	1.36	1.30	1.39	1.33	mean/all kit median	1.19	1.04	1.08	1.06	1.13	1.10
CEA DPC Immulite 2000 (DPD/DP5) mean:							CEA TOSOH AIA (TOM/TO1) mean:						
mean	30.6	12.4	12.6	10.4	6.0		mean	27.4	11.4	12.0	9.9	5.9	
SD	2.1	0.9	0.8	0.7	0.4		SD	0.7	0.3	0.4	0.4	0.2	
%CV	6.7%	7.5%	6.1%	6.8%	6.3%		%CV	2.4%	2.6%	3.6%	4.3%	3.7%	
mean+3SD	36.8	15.2	14.9	12.6	7.2		mean+3SD	29.3	12.3	13.3	11.2	6.5	
mean-3SD	24.4	9.6	10.3	8.3	4.9		mean-3SD	25.4	10.4	10.7	8.6	5.3	
N	15	15	15	15	15		N	4	4	4	4	4	
kit median	31.2	12.2	12.6	10.5	5.9		kit median	27.2	11.2	11.9	9.9	5.9	
mean/all kit median	1.24	1.15	1.15	1.11	1.10	1.15	mean/all kit median	1.10	1.05	1.09	1.05	1.08	1.08
CEA DPC Immulite 1000 (DPB/DP5) mean:							CEA Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:						
mean	31.3	12.0	12.5	10.4	5.9		mean	27.0	11.2	11.6	9.7	5.8	
SD	1.7	0.6	0.5	0.7	0.4		SD	1.7	0.7	0.6	0.6	0.4	
%CV	5.5%	4.8%	4.1%	6.8%	6.3%		%CV	6.4%	6.3%	5.2%	6.5%	7.0%	
mean+3SD	36.4	13.8	14.0	12.5	7.0		mean+3SD	32.2	13.4	13.4	11.6	7.1	
mean-3SD	26.2	10.3	11.0	8.3	4.7		mean-3SD	21.9	9.1	9.8	7.8	4.6	
N	4	4	4	4	4		N	60	60	59	59	58	
kit median	31.4	12.0	12.6	10.5	5.9		kit median	27.2	11.1	11.7	9.8	5.9	
mean/all kit median	1.26	1.11	1.14	1.11	1.07	1.14	mean/all kit median	1.09	1.04	1.06	1.03	1.07	1.06

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
CEA Johnson & Johnson Vitros (JJC/JJ1) mean:							CEA Beckman Access (BCX/BC1) mean:						
mean	24.6	10.8	11.0	9.4	5.5		mean	21.9	9.3	9.5	8.0	4.8	
SD	1.2	1.1	1.1	1.1	0.9		SD	1.1	0.6	0.5	0.4	0.2	
%CV	4.9%	9.9%	9.8%	11.5%	16.6%		%CV	5.2%	6.1%	5.5%	5.4%	4.9%	
mean+3SD	28.2	14.0	14.2	12.7	8.2		mean+3SD	25.3	11.0	11.0	9.3	5.5	
mean-3SD	21.0	7.6	7.7	6.2	2.7		mean-3SD	18.5	7.5	7.9	6.7	4.1	
N	9	9	9	9	9		N	15	15	16	15	15	
kit median	24.5	11.1	11.3	9.8	5.5		kit median	22.0	9.4	9.5	8.1	4.9	
mean/all kit median	0.99	1.00	1.00	1.00	1.00	1.00	mean/all kit median	0.88	0.86	0.86	0.85	0.88	0.87
CEA Abbott Asxym (ABB/AB1) mean:							CEA Roche E170 (BMR/BM1) mean:						
mean	24.7	10.1	10.2	8.5	5.3		mean	19.7	8.4	8.6	7.2	4.4	
SD	2.0	1.0	0.8	0.7	0.5		SD	0.6	0.2	0.1	0.2	0.1	
%CV	8.1%	10.1%	8.1%	8.3%	9.4%		%CV	3.3%	2.3%	1.5%	2.6%	3.1%	
mean+3SD	30.7	13.2	12.7	10.7	6.8		mean+3SD	21.6	9.0	9.0	7.8	4.8	
mean-3SD	18.7	7.1	7.7	6.4	3.8		mean-3SD	17.7	7.9	8.2	6.7	4.0	
N	23	23	23	23	23		N	11	11	11	11	11	
kit median	25.0	9.8	10.2	8.4	5.3		kit median	19.6	8.5	8.5	7.2	4.4	
mean/all kit median	0.99	0.94	0.93	0.91	0.97	0.95	mean/all kit median	0.79	0.78	0.78	0.77	0.80	0.78
CEA Abbott Architect (ABH/AB1) mean:							CEA Roche Elecsys (BME/BM1) mean:						
mean	24.8	10.1	10.4	8.7	4.9		mean	19.4	8.1	8.3	6.9	4.2	
N	2	2	2	2	2		SD	1.3	0.6	0.5	0.3	0.3	
mean/all kit median	1.00	0.94	0.94	0.92	0.89	0.94	%CV	6.6%	7.1%	6.1%	4.7%	6.4%	
CEA Abbott Imx (ABM/AB1) mean:							CEA kit average:						
mean	24.0	9.8	10.2	8.4	5.2		mean	26.0	10.7	11.0	9.2	5.5	
N	2	2	2	2	2		SD	4.3	1.6	1.7	1.4	0.9	
mean/all kit median	0.97	0.90	0.93	0.89	0.94	0.93	all kit median	24.8	10.8	11.0	9.4	5.5	
CEA Beckman Unicel (BCU/BC1) mean:													
mean	22.0	9.4	9.6	8.0	4.8								
SD	1.3	0.6	0.5	0.4	0.2								
%CV	6.0%	6.4%	5.2%	5.5%	4.7%								
mean+3SD	26.0	11.2	11.1	9.4	5.5								
mean-3SD	18.1	7.6	8.1	6.7	4.1								
N	14	14	14	14	14								
kit median	22.5	9.5	9.7	8.1	4.8								
mean/all kit median	0.89	0.87	0.88	0.85	0.87	0.87							

New York State Proficiency Test May 2007
Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
AFP all lab mean:							AFP DPC Immulite 1000 (DPB/DP5) mean:						
mean	29.6	23.6	17.3	11.5	9.2		mean	29.9	24.3	17.7	12.1	9.1	
SD	2.4	1.8	1.4	0.9	0.8		SD	3.5	3.5	2.2	1.3	1.0	
%CV	8.0%	7.8%	7.9%	8.2%	8.5%		%CV	11.5%	14.3%	12.2%	10.9%	10.9%	
mean+3SD	36.6	29.1	21.5	14.3	11.5		mean+3SD	40.3	34.7	24.1	16.1	12.0	
mean-3SD	22.5	18.1	13.2	8.7	6.8		mean-3SD	19.6	13.8	11.2	8.1	6.1	
N	103	103	103	103	102		N	3	3	3	3	3	
mean/target	1.04	1.03	1.01	1.03	1.03	1.03	kit median	28.3	23.0	16.9	11.6	8.6	
							mean/target	1.05	1.06	1.03	1.08	1.02	1.05
AFP Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:							AFP Abbott Asxym (ABB/AB1) mean:						
mean	30.6	24.8	18.0	12.1	9.8		mean	30.5	23.6	17.3	11.4	9.2	
SD	2.1	1.5	1.4	1.0	0.9		SD	2.1	1.5	1.0	0.6	0.7	
%CV	6.8%	6.1%	7.7%	8.4%	9.1%		%CV	6.9%	6.5%	6.0%	4.9%	7.7%	
mean+3SD	36.8	29.3	22.2	15.2	12.5		mean+3SD	36.8	28.2	20.5	13.1	11.3	
mean-3SD	24.4	20.2	13.8	9.1	7.1		mean-3SD	24.2	18.9	14.2	9.8	7.0	
N	27	27	27	27	27		N	13	13	13	13	13	
kit median	30.7	24.7	17.9	12.2	9.8		kit median	30.6	23.4	17.3	11.6	9.3	
mean/target	1.07	1.09	1.05	1.08	1.11	1.08	mean/target	1.07	1.03	1.01	1.02	1.03	1.03
AFP Roche E170 (BMR/BM1) mean:							AFP Roche Elecsys (BME/BM1) mean:						
mean	30.7	24.6	17.8	11.4	9.0		mean	29.9	23.7	16.9	11.2	9.1	
SD	2.5	1.7	1.4	0.8	0.5		SD	2.3	1.6	1.5	1.1	0.8	
%CV	8.2%	6.7%	7.6%	6.7%	5.3%		%CV	7.8%	6.6%	9.0%	9.8%	9.0%	
mean+3SD	38.2	29.5	21.8	13.7	10.5		mean+3SD	36.9	28.3	21.5	14.5	11.6	
mean-3SD	23.2	19.6	13.7	9.1	7.6		mean-3SD	23.0	19.0	12.3	7.9	6.6	
N	9	9	9	9	9		N	5	5	5	5	5	
kit median	30.9	24.4	17.4	11.1	8.9		kit median	29.3	23.7	16.6	10.9	9.0	
mean/target	1.08	1.08	1.04	1.02	1.02	1.05	mean/target	1.05	1.04	0.99	1.00	1.02	1.02
AFP TOSOH ST-A1A (TOM/TO2) mean:							AFP Beckman Access (BCX/BC1) mean:						
mean	29.8	24.1	18.3	11.8	9.2		mean	27.3	23.4	17.1	11.5	9.0	
SD	1.3	1.4	1.2	0.5	0.3		SD	3.2	0.7	0.4	0.2	0.2	
%CV	4.4%	5.7%	6.6%	4.2%	3.5%		%CV	11.6%	2.8%	2.0%	1.3%	2.3%	
mean+3SD	33.7	28.3	21.9	13.2	10.1		mean+3SD	36.8	25.4	18.2	12.0	9.7	
mean-3SD	25.9	19.9	14.7	10.3	8.2		mean-3SD	17.8	21.4	16.1	11.1	8.4	
N	3	3	3	3	3		N	3	3	3	3	3	
kit median	30.4	24.9	18.2	12.0	9.3		kit median	28.0	23.6	17.1	11.5	9.1	
mean/target	1.05	1.06	1.07	1.05	1.03	1.05	mean/target	0.96	1.03	1.00	1.03	1.01	1.01
AFP DPC Immulite 2500 (DPF/DP5) mean:													
mean	29.7	24.7	18.1	11.4	9.3								
N	2	2	2	2	2								
mean/target	1.04	1.08	1.06	1.02	1.04	1.05							

New York State Proficiency Test May 2007
Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
AFP Beckman Unicel (BCU/BC1) mean:							AFP Johnson & Johnson Vitros (JJC/JJ1) mean:						
mean	28.5	22.9	17.1	11.2	8.8		mean	23.8	19.3	14.1	9.5	8.0	
SD	1.2	1.6	1.3	0.8	0.9		SD	1.1	1.2	0.9	0.6	0.6	
%CV	4.1%	7.1%	7.7%	7.1%	10.4%		%CV	4.7%	6.5%	6.6%	6.3%	7.1%	
mean+3SD	32.0	27.8	21.0	13.6	11.5		mean+3SD	27.2	23.0	16.9	11.3	9.7	
mean-3SD	25.0	18.0	13.1	8.8	6.0		mean-3SD	20.5	15.6	11.3	7.7	6.3	
N	12	12	12	12	12		N	3	3	3	3	3	
kit median	28.3	23.4	17.4	11.1	8.8		kit median	23.4	18.9	13.7	9.6	7.8	
mean/target	1.00	1.01	1.00	1.00	0.99	1.00	mean/target	0.84	0.85	0.83	0.85	0.90	0.85
AFP DPC Immulite 2000 (DPD/DP5) mean:							AFP kit average:						
mean	28.7	22.4	16.8	11.1	8.8		mean	29.0	23.4	17.2	11.3	9.0	
SD	1.9	0.9	0.8	0.5	0.5		SD	2.0	1.6	1.1	0.7	0.4	
%CV	6.5%	4.2%	4.8%	4.5%	5.8%		all kit median	29.8	23.7	17.3	11.4	9.1	
mean+3SD	34.2	25.2	19.2	12.6	10.4								
mean-3SD	23.1	19.5	14.4	9.6	7.3								
N	21	21	21	21	21								
kit median	28.4	22.4	16.6	11.1	8.8								
mean/target	1.01	0.98	0.98	0.99	0.99	0.99							
							AFP	TM166	TM167	TM168	TM169	TM170	
							*IS target	28.5	22.8	17.1	11.2	8.9	
							SD (+/-)	0.6	0.9	0.7	0.3	0.2	
							% CV	2.2%	4.1%	4.1%	2.2%	2.3%	
							high (30%)	37.1	29.6	22.2	14.6	11.6	
							low (30%)	20.0	16.0	12.0	7.8	6.2	
							* target value from a traceable AFP standard						

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
PSA all lab mean:							PSA Beckman Access (BCX/BC2) mean:						
mean	18.9	9.5	9.4	3.8	2.4		mean	20.8	10.4	10.3	4.1	2.6	
SD	1.8	0.8	0.8	0.3	0.2		SD	0.7	0.4	0.3	0.1	0.1	
%CV	9.3%	8.8%	8.6%	8.1%	8.7%		%CV	3.6%	3.5%	2.5%	3.1%	5.1%	
mean+3SD	24.2	12.0	11.8	4.7	3.0		mean+3SD	23.0	11.5	11.1	4.5	3.0	
mean-3SD	13.6	7.0	7.0	2.9	1.8		mean-3SD	18.5	9.3	9.6	3.7	2.2	
N	275	274	276	274	275		N	39	38	38	39	39	
mean/target	1.09	1.10	1.10	1.08	1.08	1.09	kit median	20.9	10.4	10.4	4.1	2.6	
							mean/target	1.19	1.21	1.20	1.18	1.19	1.19
PSA TOSOH ST-AIA (TOM/TO2) mean:							PSA TOSOH AIA (TOM/TO1) mean:						
mean	20.9	10.8	10.4	4.3	2.7		mean	20.2	10.2	9.8	4.0	2.5	
SD	1.3	0.5	0.4	0.1	0.2		SD	1.1	0.6	0.5	0.2	0.1	
%CV	6.3%	4.6%	4.0%	2.7%	6.4%		%CV	5.3%	6.1%	5.4%	4.8%	4.8%	
mean+3SD	24.8	12.3	11.6	4.6	3.2		mean+3SD	23.4	12.1	11.4	4.6	2.9	
mean-3SD	16.9	9.3	9.1	3.9	2.2		mean-3SD	17.0	8.3	8.3	3.4	2.2	
N	3	3	3	3	3		N	9	9	9	9	9	
kit median	20.6	10.8	10.5	4.2	2.6		kit median	19.9	10.1	10.0	3.9	2.5	
mean/target	1.20	1.26	1.21	1.22	1.23	1.22	mean/target	1.16	1.18	1.14	1.15	1.15	1.16

New York State Proficiency Test May 2007
Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
PSA Bayer/Siemens ACS-180 (COS/BA1) mean:							PSA Abbott Asxym (ABB/AB1) mean:						
mean	19.7	9.8	9.8	4.2	2.6		mean	19.7	9.7	9.4	3.8	2.3	
SD	0.5	0.1	0.1	0.1	0.0		SD	1.8	0.6	0.6	0.3	0.2	
%CV	2.6%	0.6%	0.6%	2.4%	0.0%		%CV	9.2%	5.8%	5.9%	7.2%	7.1%	
mean+3SD	21.2	9.9	10.0	4.5	2.6		mean+3SD	25.2	11.4	11.1	4.6	2.8	
mean-3SD	18.1	9.6	9.7	3.9	2.6		mean-3SD	14.2	8.0	7.7	3.0	1.8	
N	3	3	3	3	3		N	25	25	25	25	25	
kit median	19.8	9.8	9.8	4.2	2.6		kit median	19.4	9.8	9.5	3.8	2.4	
mean/target	1.13	1.14	1.14	1.20	1.18	1.16	mean/target	1.13	1.13	1.09	1.09	1.06	1.10
PSA Beckman Unicel (BCU/BC2) mean:							PSA Abbott Architect (ABH/AB1) mean:						
mean	19.7	10.0	10.1	4.0	2.5		mean	19.7	9.6	9.5	3.7	2.2	
SD	1.1	0.6	0.7	0.2	0.1		SD	0.9	0.4	0.4	0.3	0.1	
%CV	5.5%	5.9%	6.7%	5.7%	5.6%		%CV	4.4%	4.5%	4.5%	9.1%	3.7%	
mean+3SD	22.9	11.8	12.1	4.7	2.9		mean+3SD	22.3	10.9	10.8	4.6	2.4	
mean-3SD	16.4	8.2	8.0	3.3	2.0		mean-3SD	17.1	8.3	8.2	2.7	2.0	
N	19	19	19	19	19		N	4	4	4	4	4	
kit median	19.6	10.1	9.9	4.0	2.4		kit median	20.0	9.6	9.6	3.8	2.2	
mean/target	1.13	1.16	1.17	1.14	1.12	1.14	mean/target	1.13	1.11	1.11	1.04	1.00	1.08
PSA Johnson & Johnson Vitros (JJC/JJ1) mean:							PSA DPC Immulite 1000/2000/2500 3G (DPB, DPD & DPF/DP6) mean:						
mean	19.1	9.5	9.1	3.8	2.5		mean	17.7	9.5	9.4	3.6	2.4	
SD	2.3	1.1	0.9	0.4	0.3		SD	1.0	0.3	0.2	0.1	0.1	
%CV	12.1%	11.1%	10.3%	9.9%	10.3%		%CV	5.7%	3.3%	1.9%	4.1%	5.9%	
mean+3SD	26.1	12.7	12.0	5.0	3.2		mean+3SD	20.7	10.4	9.9	4.1	2.8	
mean-3SD	12.2	6.4	6.3	2.7	1.7		mean-3SD	14.6	8.5	8.8	3.2	2.0	
N	13	13	13	13	13		N	4	4	4	4	4	
kit median	19.1	9.6	9.5	3.9	2.5		kit median	17.8	9.4	9.3	3.6	2.4	
mean/target	1.10	1.11	1.06	1.09	1.13	1.10	mean/target	1.01	1.10	1.09	1.04	1.09	1.07
PSA Dade Behring Dimension (DUD/DA1) mean:							PSA DPC Immulite 1000 (DPB/DP5) mean:						
mean	19.9	9.7	9.5	3.7	2.4		mean	18.2	9.4	9.4	3.8	2.3	
SD	1.4	0.5	0.5	0.2	0.1		SD	0.8	0.8	0.7	0.2	0.2	
%CV	7.0%	4.7%	5.3%	5.8%	6.0%		%CV	4.5%	8.5%	7.0%	5.1%	8.5%	
mean+3SD	24.0	11.0	11.0	4.4	2.8		mean+3SD	20.7	11.8	11.4	4.4	2.9	
mean-3SD	15.7	8.3	8.0	3.1	1.9		mean-3SD	15.8	7.0	7.4	3.2	1.7	
N	27	26	26	26	26		N	11	11	11	11	11	
kit median	19.9	9.7	9.5	3.8	2.3		kit median	18.0	9.5	9.2	3.7	2.3	
mean/target	1.14	1.12	1.10	1.06	1.07	1.10	mean/target	1.05	1.09	1.09	1.08	1.04	1.07
PSA Abbott IMX (ABM/AB1) mean:													
mean	20.3	9.6	9.3	3.6	2.4								
N	2	2	2	2	2								
mean/target	1.17	1.12	1.08	1.01	1.09	1.09							

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias	
PSA Bayer/Siemens ADVIA-Centaur (COB/BA1) mean:								PSA DPC Immulite 2500 (DPF/DP5) mean:						
mean	17.8	9.0	9.0	3.7	2.3		mean	17.0	9.0	9.1	3.5	2.1		
SD	1.0	0.5	0.5	0.2	0.1		N	2	2	2	2	2		
%CV	5.3%	5.7%	5.7%	6.1%	5.7%		mean/target	0.98	1.04	1.05	1.00	0.95	1.00	
mean+3SD	20.6	10.5	10.5	4.4	2.7		PSA Roche Elecsys (BME/BM1) mean:							
mean-3SD	14.9	7.4	7.4	3.0	1.9		mean	16.8	8.5	8.6	3.5	2.2		
N	56	56	58	59	59		SD	1.1	0.6	0.7	0.3	0.2		
kit median	17.8	9.0	9.0	3.7	2.3		%CV	6.8%	7.0%	7.6%	7.7%	7.4%		
mean/target	1.02	1.04	1.04	1.05	1.07	1.05	mean+3SD	20.2	10.3	10.5	4.3	2.7		
PSA Roche E170 (BMR/BM1) mean:								mean-3SD	13.4	6.7	6.6	2.7	1.7	
mean	17.9	9.0	9.2	3.7	2.3		N	19	19	19	19	19		
SD	0.5	0.5	0.5	0.2	0.1		kit median	16.6	8.6	8.5	3.5	2.2		
%CV	3.0%	5.0%	5.1%	4.8%	5.6%		mean/target	0.96	0.99	1.00	1.00	1.01	0.99	
mean+3SD	19.5	10.4	10.6	4.3	2.7		PSA kit average:							
mean-3SD	16.3	7.6	7.8	3.2	1.9		mean	19.0	9.5	9.4	3.8	2.4		
N	15	16	16	16	16		SD	1.3	0.6	0.5	0.2	0.2		
kit median	17.8	9.0	9.2	3.7	2.3		all kit median	19.7	9.6	9.4	3.7	2.4		
mean/target	1.03	1.05	1.07	1.06	1.06	1.05	PSA DPC Immulite 2000 (DPD/DP5) mean:							
mean	17.5	8.6	8.8	3.5	2.2		mean	17.4	8.6	8.6	3.5	2.2		
SD	1.4	0.7	0.9	0.3	0.3		SD	0.7	0.4	0.3	0.2	0.1		
%CV	8.3%	8.2%	10.1%	9.9%	12.2%		% CV	4.1%	4.2%	3.6%	4.6%	3.3%		
mean+3SD	21.8	10.7	11.5	4.5	3.0		high (25%)	21.8	10.8	10.8				
mean-3SD	13.2	6.5	6.1	2.5	1.4		low (25%)	13.1	6.5	6.5				
N	20	20	20	20	20		high (30%)				4.6	2.9		
kit median	17.3	8.7	8.6	3.5	2.1		low (30%)				2.5	1.5		
mean/target	1.01	1.00	1.02	1.00	0.98	1.00	* target value from a traceable PSA standard							

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
free PSA all lab mean:							free PSA Roche E170 (BMR/BM1) mean:						
mean	2.22	1.13	2.65	1.10	0.71		mean	1.89	0.97	2.32	0.94	0.60	
SD	0.33	0.18	0.39	0.18	0.12		SD	0.07	0.02	0.07	0.04	0.03	
%CV	14.8%	16.3%	14.9%	16.4%	17.2%		%CV	3.4%	2.3%	3.2%	3.7%	4.3%	
mean+3SD	3.21	1.68	3.83	1.64	1.07		mean+3SD	2.09	1.04	2.55	1.04	0.68	
mean-3SD	1.24	0.57	1.47	0.56	0.34		mean-3SD	1.69	0.91	2.10	0.83	0.52	
N	62	65	65	62	59		N	9	10	10	8	8	
mean/target	1.23	1.25	1.24	1.24	1.24	1.24	kit median	1.89	0.98	2.32	0.93	0.60	
							mean/target	1.05	1.08	1.09	1.05	1.05	1.06
free PSA Beckman Access (BCX/BC2) mean:							free PSA Dade Behring Dimension (DUD/DA1) mean:						
mean	2.53	1.30	3.03	1.27	0.83		mean	1.83	0.91	2.11	0.87	0.58	
SD	0.09	0.06	0.09	0.05	0.05		SD	0.11	0.07	0.08	0.06	0.06	
%CV	3.5%	4.6%	3.0%	3.7%	5.5%		%CV	5.8%	7.2%	3.9%	6.9%	10.9%	
mean+3SD	2.79	1.48	3.30	1.41	0.97		mean+3SD	2.14	1.11	2.36	1.05	0.77	
mean-3SD	2.27	1.12	2.76	1.13	0.70		mean-3SD	1.51	0.71	1.86	0.69	0.39	
N	17	17	17	18	16		N	5	5	5	5	5	
kit median	2.53	1.30	3.01	1.29	0.82		kit median	1.83	0.89	2.08	0.86	0.57	
mean/target	1.41	1.45	1.41	1.42	1.46	1.43	mean/target	1.01	1.01	0.99	0.98	1.02	1.00
free PSA Beckman Unicel (BCU/BC2) mean:							free PSA DPC Immulite 2000 (DPD/DP5) mean:						
mean	2.49	1.28	2.99	1.24	0.79		mean	1.65	0.89	2.03	0.81	0.50	
SD	0.09	0.09	0.12	0.05	0.04		SD	0.01	0.04	0.06	0.04	0.01	
%CV	3.7%	6.8%	3.9%	3.9%	5.2%		%CV	0.7%	4.5%	2.8%	5.0%	2.0%	
mean+3SD	2.76	1.54	3.34	1.39	0.92		mean+3SD	1.68	1.01	2.20	0.93	0.53	
mean-3SD	2.21	1.02	2.64	1.09	0.67		mean-3SD	1.61	0.77	1.85	0.69	0.47	
N	16	16	16	16	15		N	3	3	3	3	3	
kit median	2.48	1.28	3.00	1.22	0.80		kit median	1.64	0.89	2.06	0.80	0.50	
mean/target	1.38	1.43	1.40	1.40	1.39	1.40	mean/target	0.91	0.99	0.95	0.91	0.88	0.93
free PSA Abbott Asxym (ABB/AB1) mean:							free PSA kit average:						
mean	2.05	0.98	2.38	0.94	0.61		mean	2.06	1.04	2.46	1.00	0.65	
SD	0.09	0.14	0.22	0.10	0.08		SD	0.33	0.17	0.40	0.18	0.12	
%CV	4.3%	14.5%	9.1%	10.7%	13.4%		all kit median	1.96	0.97	2.33	0.94	0.61	
mean+3SD	2.32	1.41	3.04	1.24	0.85								
mean-3SD	1.79	0.55	1.73	0.64	0.36								
N	4	5	5	4	4								
kit median	2.10	0.96	2.42	0.95	0.61								
mean/target	1.14	1.09	1.11	1.06	1.07	1.09							
free PSA Roche Elecsys (BME/BM1) mean:							free PSA	TM166	TM167	TM168	TM169	TM170	
mean	1.96	0.97	2.33	0.94	0.62		* IS target	1.80	0.90	2.14	0.89	0.57	
SD	0.08	0.03	0.09	0.02	0.01		SD (+/-)	0.08	0.04	0.1	0.04	0.03	
%CV	4.1%	2.9%	4.0%	2.2%	1.9%		% CV	4.3%	4.3%	4.9%	4.4%	5.9%	
mean+3SD	2.20	1.06	2.61	1.01	0.65		high (30%)	2.34	1.17	2.78	1.16	0.74	
mean-3SD	1.71	0.89	2.05	0.88	0.58		low (30%)	1.26	0.63	1.50	0.62	0.40	
N	8	9	9	8	8		* target value from a traceable free PSA standard.						
kit median	1.95	0.97	2.34	0.94	0.62								
mean/target	1.09	1.08	1.09	1.06	1.08	1.08							

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Summary of Results

	TM166	TM167	TM168	TM169	TM170	Average bias		TM166	TM167	TM168	TM169	TM170	Average bias
%free PSA all lab mean:							% free PSA DP5/DP5 mean:						
mean	11.26	11.53	26.98	28.15	28.73		mean	9.0	9.8	22.7	22.6	22.6	
SD	1.23	1.39	2.87	3.54	3.65		SD	0.4	0.3	1.4	0.6	1.1	
%CV	10.9%	12.1%	10.7%	12.6%	12.7%		%CV	4.0%	3.5%	6.4%	2.5%	4.9%	
mean+3SD	14.9	15.7	35.6	38.8	39.7		mean+3SD	10.0	10.8	27.0	24.3	25.9	
mean-3SD	7.6	7.4	18.4	17.5	17.8		mean-3SD	7.9	8.8	18.3	20.9	19.3	
N	40	53	52	54	47		N	2	3	3	3	3	
mean/target	1.07	1.09	1.08	1.09	1.09	1.08	kit median	9.0	10.0	23.5	22.8	23.1	
							mean/target	0.85	0.92	0.91	0.87	0.85	0.88
% free PSA BC2/BC2 mean:							% free PSA AB1/AB1 mean:						
mean	12.3	12.8	29.6	30.9	31.9		mean		10.18	24.50	24.30	26.55	
SD	0.6	0.7	1.9	1.7	1.7		SD		1.48	1.95	3.82	2.05	
%CV	4.7%	5.2%	6.3%	5.5%	5.5%		%CV		14.5%	7.9%	15.7%	7.7%	
mean+3SD	14.0	14.8	35.2	36.0	37.1		mean+3SD		14.6	30.3	35.8	32.7	
mean-3SD	10.5	10.8	24.0	25.8	26.7		mean-3SD		5.7	18.7	12.8	20.4	
N	16	22	20	29	22		N	1	4	4	2	2	
kit median	12.3	12.9	29.1	30.5	32.0	1.19	all median		9.70	24.35	24.30	26.55	
mean/target	1.17	1.21	1.19	1.19	1.21	1.19	mean/target		0.96	0.98	0.94	1.01	0.97
% free PSA BM1/BM1 mean:							% free PSA kit average:						
mean	11.0	11.0	26.2	25.9	26.4		mean	10.5	10.7	25.3	25.7	26.8	
SD	1.0	0.8	1.7	1.7	1.9		SD	1.4	1.3	2.8	3.1	3.3	
%CV	9.1%	7.1%	6.7%	6.7%	7.2%		all kit median	10.4	10.2	24.5	24.8	26.6	
mean+3SD	13.9	13.3	31.4	31.2	32.1								
mean-3SD	8.0	8.6	20.9	20.7	20.7								
N	15	18	18	13	13								
kit median	10.9	10.9	25.9	25.5	26.3								
mean/target	1.04	1.03	1.05	1.00	1.00	1.03							
% free PSA DA1/DA1 mean:							% free PSA IS target	TM166	TM167	TM168	TM169	TM170	
mean	9.8	9.8	23.3	24.8	26.6			10.5%	10.6%	25.0%	25.9%	26.4%	
SD	0.4	0.4	0.6	0.8	1.9								
%CV	3.8%	4.3%	2.4%	3.1%	7.1%								
mean+3SD	10.9	11.1	24.9	27.1	32.2								
mean-3SD	8.7	8.6	21.6	22.5	20.9								
N	4	4	4	4	4								
kit median	9.9	9.8	23.4	24.7	26.2								
mean/target	0.93	0.93	0.93	0.96	1.01	0.95							
complexed PSA all lab mean:	TM166	TM167	TM168	TM169	TM170		PSA complexed/total all lab mean:	TM166	TM167	TM168	TM169	TM170	
mean	15.8	8.1	6.7	2.8	1.8		mean	85.1	86.6	71.0	73.0	72.6	
SD	0.6	0.3	0.4	0.1	0.1		SD	7.5	6.7	6.7	6.4	5.0	
%CV	3.8%	4.0%	5.8%	5.0%	5.1%		%CV	8.8%	7.7%	9.4%	8.8%	6.9%	
mean+3SD	17.6	9.1	7.9	3.2	2.0		mean+3SD	107.6	106.6	91.0	92.2	87.8	
mean-3SD	14.0	7.1	5.5	2.4	1.5		mean-3SD	62.7	66.6	51.1	53.8	57.5	
N	12	12	12	12	12		N	11	11	11	11	11	
all median	15.8	8.3	6.7	2.8	1.7		all median	84.4	85.7	72.6	72.5	73.9	