CX INSTRUMENTS CALIBRATION VERIFICATION - 3/2006

Synchron Control Level 1 lot #M505251	Vigil Serology Control Level 1 lot#M504291/Fin	
Synchron Control Level 2 lot #M505252	Vigil Serology Control Level 1 lot#M409331/MHC	D1 Control lot#M412331
Synchron Control Level 3 lot #M505253	Vigil Serology Control Level 2 lot#M409332/Fin MHC	D2 Control lot#M412332
Amm/Alc Control Level 1 lot #M410151 Fin	Vigil Serology Control Level 3 lot#M504293/Fin	D3 Control lot#M412333
Amm/Alc Control Level 1 lot #M503431 MHC		
Amm/Alc Control Level 2 lot #M410152 Fin	Vigil Serology Control Level 3 lot#M409333/MHC	
Amm/Alc Control Level 2 lot #M503432 MHC		
Amm/Alc Control Level 3 lot #M406493	HbA1c Calibrator 2 lot #M502041	T4 Low Cal lot#56262723
Biorad Multiqual Liquid Assayed Level 1 lot#45511		T4 High Cal lot #56262723
Biorad Multiqual Liquid Assayed Level 2 lot#45512		
Biorad Multiqual Liquid Assayed Level 3 lot#45513		

Ranges were obtained from control package inserts for the Beckman CX Instruments.
*Lithium target range is for Synchron EL-ISE System.

Beckman Synchron Controls

Site	MAE	MAW	MHC	Finley	Dyer		MAE	MAW	MHC	Finley	Dyer		MAE	MAW	MHC	Finley	Dyer	
Level	Level 1	Level 1	Level 1	Level 1	Level 1	*Level 1*	Level 2	Level 2	Level 2	Level 2	Level 2	*Level 2*	Level 3	Level 3	Level 3	Level 3	Level 3	*Level 3*
Assay	Result	Result	Result	Result	Result	*Range*	Result	Result	Result	Result	Result	*Range*	Result	Result	Result	Result	Result	*Range*
Albumin	NA	NA	2.3	2.2	2.3	*1.9-2.7*	NA	NA	3.6	3.6	3.7	*3.3-4.1*	NA	NA	5	4.9	5.2	*4.5-5.7*
ALP	NA	NA	38	38	39	*27-47*	NA	NA	155	147	150	*124-174*	NA	NA	269	255	262	*219-299*
ALT	NA	NA	14	12	11	*9-19.0*	NA	NA	153	151	152	*128-188*	NA	NA	288	284	285	*250-350*
Amylase	NA	NA	49	46	49	*38-58*	NA	NA	220	217	222	*175-255*	NA	NA	393	385	388	*321-441*
AST	NA	NA	20	20	20	*15-25*	NA	NA	165	165	169	*143-193*	NA	NA	299	297	308	*270-350*
BUN3	6	8	7	7	NA	*5-9.0*	34	34	34	34	NA	*31-39*	61	61	62	62	NA	*56-68*
BUN	NA	NA	NA	NA	8	*6.0-10.0*	NA	NA	NA	NA	36	*32-40*	NA	NA	NA	NA	63	*59-71*
Calcium	7.5	7.5	7.8	7.6	7.6	*6.9-8.1*	10.4	10.5	10.9	10.7	10.5	*9.5-11.4*	13.2	13.4	13.9	13.6	13.4	*12.2-14.6*
Chloride	82	83	85.1	82.8	81	*77-87*	101	101	103.4	100.5	101	*96-106*	120	120	122.5	118.5	122	*115-127*
Cholesterol	NA	NA	105	109	104	*89-119*	NA	NA	168	171	163	*144-184*	NA	NA	226	237	226	*205-245*
CK	NA	NA	51	53	54	*45-65*	NA	NA	333	345	340	*304-404*	NA	NA	586	611	597	*531-731*
CO2	11	11	11.1	10.8	10	*8-14.0*	22	21	21.5	20.7	20	*17-25*	31	30	30.5	30.1	27	*25-35*
CRE3	0.4	0.4	0.5	0.4	NA	*0.3-0.7*	4.1	4	4.1	4.2	NA	*3.7-4.5*	7.7	7.6	7.6	7.8	NA	*7.0-8.2*
Creatinine	NA	NA	NA	NA	0.5	*0.3-0.9*	NA	NA	NA	NA	4.1	*3.7-4.7*	NA	NA	NA	NA	7.4	*6.7-8.3*
Iron	NA	NA	NA	48	NA	*35-61*	NA	NA	NA	158	NA	*137-177*	NA	NA	NA	261	NA	*220-292*
GGT	NA	NA	11	14	12	*6-18.0*	NA	NA	161	167	167	*139-189*	NA	NA	309	312	314	*255-376*
Glucose	NA	NA	NA	NA	45	*37-53*	NA	NA	NA	NA	234	*218-248*	NA	NA	NA	NA	415	*390-440*
GLU	42	42	43	42	NA	*32-56*	215	228	216	215	NA	*204-234*	369	382	370	366	NA	*339-409*
HDLD	NA	NA	24.3	25.8	25.2	*20-32*	NA	NA	40.4	43	42.8	*35-49*	NA	NA	57.8	61.2	59.4	*50-68*
IBCT	NA	NA	NA	194	NA	*139-239*	NA	NA	NA	350	NA	*257-377*	NA	NA	NA	460	NA	*357-513*
Potassium	2.3	2.4	2.31	2.35	2.4	*2.0-2.6*	4.9	5	4.92	4.89	5	*4.5-5.3*	7.4	7.6	7.52	7.45	7.5	*7.1-8.1*
LD-L	NA	NA	49	48	NA	*35-65*	NA	NA	198	197	NA	*169-249*	NA	NA	338	339	NA	*311-401*
LDLD	NA	NA	52.4	49.5	49.5	*46-58*	NA	NA	84	78.1	79	*71-89*	NA	NA	116.7	109.3	109	*94-126*
Lipase	NA	NA	116	120	NA	*85-147*	NA	NA	70	73	NA	*44-86*	NA	NA	23	23	NA	*11-33.0*
Lithium*	NA	NA	0.6	NA	NA	*0.4-0.8*	NA	NA	1.5	NA	NA	*1.4-2.0*	NA	NA	2.3	NA	NA	*2.3-3.3*
Magnesium	NA	NA	1.2	1.2	NA	*0.8-1.6*	NA	NA	2.3	2.4	NA	*1.9-2.7*	NA	NA	3.4	3.4	NA	*2.9-4.1*
Salicylate	NA	NA	29.6	NA	NA	*22-36*	NA	NA	19.1	NA	NA	*13-23*	NA	NA	9.3	NA	NA	*5-11.0*
Sodium	115	121	120.6	118.2	119	*113-127*	139	140	140.8	140.3	139	*134-148*	160	160	160.9	161.2	161	*150-172*
Phosphorus	NA	NA	2	2	NA	*1.5-2.3*	NA	NA	4.2	4.5	NA	*3.6-5.0*	NA	NA	6.6	6.8	NA	*5.7-7.7*
Total Bilirubin	NA	NA	1.1	0.9	0.9	*0.5-1.5*	NA	NA	4.1	4.1	4.1	*3.0-5.2*	NA	NA	7.4	7.3	7.5	*5.4-9.4*
Total Protein	NA	NA	3.8	3.7	3.9	*3.5-4.3*	NA	NA	5.8	5.8	6	*5.5-6.7*	NA	NA	7.8	7.9	8.2	*7.4-9.2*
Triglyceride	NA	NA	68	67	69	*46-87*	NA	NA	104	103	104	*85-125*	NA	NA	140	136	142	*113-173*
Uric Acid	NA	NA	2.6	2.7	NA	*2.2-3.0*	NA	NA	7	7	NA	*6.1-7.7*	NA	NA	10.9	10.7	NA	*9.9-11.9*

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Beckman Ammonia/Alcohol Controls									
Site	MHC	Finley		MHC	Finley		MHC	Finley	
Level	Level 1	Level 1	*Level 1*	Level 2	Level 2	*Level 2*	Level 3	Level 3	*Level 3*
Assay	Result	Result	*Range*	Result	Result	*Range*	Result	Result	*Range*
Ammonia		76	*Fin 39-107*		235	*Fin 167-235*		1149	*1040-1193*
	89		*MHC 32-100*	238		*MHC 190-258*	1085		*1040-1193*
Alcohol		0.05	*Fin 0.04-0.06*		0.1	*Fin 0.09-0.12*		0.48	*0.421-0.509*
	0.05		*MHC 0.04-0.06*	0.1		*MHC 0.08-0.11*	0.47		*0.421-0.509*

Beckman Vigil Serology Controls						
Site	Finley		Finley		Finley	
Level	Level 1	*Level 1*	Level 2	*Level 2*	Level 3	*Level 3*
Assay	Result	*Range*	Result	*Range*	Result	*Range*
ASO	75	*62.3-101.5*	178.2	*166-226*	375.3	*332-422*

Beckman Vigil Serology Controls						
Site	MHC		MHC		MHC	
Level	Level 1	*Level 1*	Level 2	*Level 2*	Level 3	*Level 3*
Assay	Result	*Range*	Result	*Range*	Result	*Range*
CRP	0.8	*0.2-1.2*	5	*4.5-5.7*	7.5	*6.8-8.8*

Beckman T4 Calibrators						
Site	MHC					
Level	Low Cal	*Low Cal*	33%	67%	High Cal	*High Cal*
Assay	Result	*Range*	Result	Result	Result	*Target*
T4	0.3/0.2	*0.4*	6.1/6.2	13.0/13.0	19.4/19.8	19.3

Beckman D1/D2/D3 Bilirubin Controls												
Site	MHC	Finley	Dyer		MHC	Finley	Dyer		MHC	Finley	Dyer	
Level	D1	D1	D1	*D1*	D2	D2	D2	*D2*	D3	D3	D3	*D3*
Assay	Result	Result	Result	*Range*	Result	Result	Result	*Range*	Result	Result	Result	*Range*
Direct Bilirubin	0.9	0.9	0.9	*0.5-1.3*	3.8	3.8	3.7	*3.2-4.2*	5.7	5.8	5.7	*5.0-6.4*

Beckman Synchron Level 1 Control diluted 1:10 (Dilution prepared using Saline. Run samples as a CSF sample.)										
Site	MHC	Finley	MHC	Finley	MHC	Finley	MHC	Finley	MHC	Finley
Dilution	Saline	Saline	30%	30%	50%	50%	70%	70%	100%	100%
MTP	RSL	RSL	98	101	160	160	227	224	316	RSH

Biorad Multiqual Liquid Assayed Controls (Acid Phos slope set to 1.0)						
Site	MHC					
Assay	Level 1	*Level 1 Range*	Level 2	*Level 2 Range*	Level 3	*Level 3 Range*
Acid Phos	5.6	*5.5-8.3*	14.9	*13.1-19.7*	31.3	*26.9-40.3*

Beckman HbA1c Cal 2	Result	Result	*Target*
Site	Dyer		
Level	Hem Rgt	1:2 Dil	HbA1c Cal 2	*HbA1c Cal 2*
Assay	Result	Result	Result	*Target*
Hb	RSL	8	17	*17*

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ACL INSTRUMENTS CALIBRATION VERIFICATION - 3/2006

Hemosil Assayed Low Abnormal Control lot #N0656070	MHC D-Dimer Low Control lot #B40235
Hemosil Assayed Normal Control lot #N0957778	MHC D-Dimer High Control lot #B40235
Hemosil Assayed High Abnormal Control lot #N0656077	Finley D-Dimer Low Control lot #B40208
Hemosil Assayed Low Fibrinogen Control lot #N0756705	Finley D-Dimer High Control lot #B40208
George King Fact Control lot #D9d1	
George King A-Fact Control lot #427e1	
George King B-Fact Control lot #N7d1	

ACL 9000
Hemosil Assayed Control Material

Site	MHC							
Level	Low Abn	*Low Abn*	Normal	*Normal*	High Abn	*High Abn*	Low Fib	*Low Fib*
Assay	Result	*Target*	Result	*Target*	Result	*Target*	Result	*Target*
Protime	28.8	*24.8-33.6*	11.2	*9.6-12.6*	42.6	*40.6-55.0*	NA	NA
Fibrinogen	136	*108-178*	283	*260-380*	NA	*NA*	86.1	*70-104*
Thrombin	20.2	*18.2-24.6*	12.4	*12.7-16.7*	NA	*NA*	NA	NA

ACL Classic
Hemosil Assayed Control Material

*ACL 9000 range
no range listed for ACL Classic

Site	Finley	Dyer	MAE	MAW		Finley	Dyer	MAE	MAW		Finley	Dyer	MAE	MAW		Finley	
Level	Low Abn	Low Abn	Low Abn	Low Abn	*Low Abn*	Normal	Normal	Normal	Normal	*Normal*	High Abn	High Abn	High Abn	High Abn	*High Abn*	Low Fib	*Low Fib*
Assay	Result	Result	Result	Result	*Target*	Result	Result	Result	Result	*Target*	Result	Result	Result	Result	*Target*	Result	*Target*
Protime	21.7	29.4	27.8	27.8	*21.8-29.4*	10.2	10.9	11.1	10.9	*9.2-12.2*	31.2	47.1	44.7	46.5	*40.6-55.0*	15.2	NA
Fibrinogen	142	NA	NA	NA	*110-150*	291	NA	NA	NA	*275-365*	NA	NA	NA	NA	*NA*	113	83-127

ACL 9000
George King Biomedical Assayed Control Material
Target value listed in package insert was obtained using bioMerieux Automated APTT/MLA 900C.

Site	MHC					
Level	Fact	*Fact*	A-Fact	*A-Fact*	B-Fact	*B-Fact*
Assay	Result	*Target*	Result	*Target*	Result	*Target*
Factot VIII	82.2	*116*	11.7	7	34	*39*
Factor IX	98	*115*	5.2	9	57	*45*

ACL 9000
D-Dimer

Site	MHC					
Level	Low Control	*Low Control*	1:1 dil	*Calc target*	High Control	*High Control*
Assay	Result	*Range*	Result	*Range*	Result	*Range*
D-Dimer	307	*255-426*	485	*485.5*	664	*542-733*

ACL 7000
D-Dimer

Site	Finley					
Level	Low Control	*Low Control*	1:1 dil	*Calc target*	High Control	*High Control*
Assay	Result	*Range*	Result	*Range*	Result	*Range*
D-Dimer	337	*265-442*	513	*512*	687	*552-747*

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