

CX INSTRUMENTS CALIBRATION VERIFICATION - 3/2006

Synchron Control Level 1 lot #M505251	Vigil Serology Control Level 1 lot#M5042931/Fin	D1 Control lot#M412331
Synchron Control Level 2 lot #M505252	Vigil Serology Control Level 1 lot#M409331/MHC	D2 Control lot#M412332
Synchron Control Level 3 lot #M505253	Vigil Serology Control Level 2 lot#M409332/Fin MHC	D3 Control lot#M412333
Amm/Aic Control Level 1 lot #M410151 Fin	Vigil Serology Control Level 3 lot#M504293/Fin	
Amm/Aic Control Level 1 lot #M503431 MHC		
Amm/Aic Control Level 2 lot #M410152 Fin	Vigil Serology Control Level 3 lot#M409333/MHC	
Amm/Aic Control Level 2 lot #M503432 MHC		
Amm/Aic Control Level 3 lot #M406493	HbA1c Calibrator 2 lot #M502041	T4 Low Cal lot#56262723
Biorad Multiquel Liquid Assayed Level 1 lot#45511		T4 High Cal lot #56262723
Biorad Multiquel Liquid Assayed Level 2 lot#45512		
Biorad Multiquel 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		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls		Beckman Synchron Controls					
Site	MAE	MAW	MHC	Finley	Dyer	MAE	MAW	MHC	Finley	Dyer	MAE	MAW	MHC	Finley	Dyer	MAE	MAW	MHC	Finley	Dyer			
Level 1	Result	Level 1	Result	Level 1	Result	Level 2	Result	Level 2	Result	Level 2	Result	Level 3	Result	Level 3	Result	Level 3	Result	Level 3	Result	Level 3	Result		
Assay	2.3	2.2	2.3	1.9-2.7	2.3	1.9-2.7	NA	NA	NA	NA	3.6	3.6	3.7	3.3-4.1	NA	NA	NA	5	4.9	5.2	4.5-5.7		
Albumin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	155	147	150	124-174	NA	NA	NA	269	255	262	219-299		
ALP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	153	151	152	128-188	NA	NA	NA	288	284	285	250-350		
ALT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	217	222	175-255	NA	NA	NA	393	385	388	321-441		
Amylase	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	165	165	169	143-193	NA	NA	NA	299	297	308	270-350		
AST	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	34	34	31-39	NA	NA	NA	61	62	62	56-68		
BUN3	6	8	7	7	NA	5-9.0	NA	NA	NA	NA	86.0-10.0	NA	NA	NA	NA	NA	NA	34	NA	NA	63	59-71	
BUN	NA	NA	NA	NA	NA	8.6-0.10.0	NA	NA	NA	NA	10.4	10.5	10.5	9.5-11.4	NA	NA	NA	13.2	13.4	13.9	13.4	12.2-14.6	
Calcium	7.5	7.5	7.8	7.6	7.6	6.9-8.1	NA	NA	NA	NA	10.9	10.7	10.5	9.5-11.4	NA	NA	NA	13.2	13.4	13.9	13.4	12.2-14.6	
Chloride	82	83	85.1	82.8	81	77-87	101	101	101	103.4	100.5	101	96-106	NA	NA	NA	NA	120	120.5	118.5	122.5	115-127	
Cholesterol	NA	NA	105	109	104	89-119	NA	NA	NA	168	171	163	144-184	NA	NA	NA	NA	226	237	226	205-245		
CK	NA	NA	51	53	54	45-65	NA	NA	NA	333	345	340	304-404	NA	NA	NA	NA	586	611	597	531-731		
CO2	11	11	11.1	10.8	10	8-14.0	22	21	21	21.5	20.7	20	17-25	NA	NA	NA	NA	31	30	30.5	30.1	27	25-35
CRE3	0.4	0.4	0.5	0.4	0.4	0.3-0.7	4.1	4	4	4.1	4.2	NA	3.7-4.5	NA	NA	NA	NA	7.7	7.6	7.6	7.8	7.0-8.2	
Creatinine	NA	NA	NA	NA	NA	0.5-0.3-0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.4	6.7-8.3
Iron	NA	NA	NA	NA	NA	35-61	NA	NA	NA	NA	158	158	137	177	NA	NA	NA	NA	261	NA	NA	220	292
GGT	NA	NA	11	14	12	6-18.0	NA	NA	NA	161	167	167	139-189	NA	NA	NA	NA	309	312	314	255-376		
Glucose	NA	NA	NA	NA	NA	45	37-53	NA	NA	NA	NA	NA	234	218-248	NA	NA	NA	NA	NA	NA	NA	415	390-440
GLU	42	42	43	42	NA	32-56	215	228	216	215	NA	215	204	234	NA	NA	NA	369	382	370	366	NA	339-409
HDL	NA	NA	24.3	25.8	25.2	20-32	NA	NA	40.4	43	42.8	35-49	NA	NA	NA	NA	NA	NA	57.8	61.2	59.4	50-68	
HDL	NA	NA	NA	194	NA	139-239	NA	NA	350	NA	257	377	NA	NA	NA	NA	NA	NA	NA	NA	460	NA	357-513
IBCT	NA	NA	2.31	2.35	2.4	2.0-2.6	4.9	5	4.92	4.89	5.4	5.5-5.3	NA	NA	NA	NA	NA	7.4	7.6	7.52	7.45	7.5	7.1-8.1
Potassium	NA	NA	49	48	NA	35-65	NA	NA	198	197	NA	169	249	NA	NA	NA	NA	NA	338	339	NA	311	401
LDL	NA	NA	52.4	49.5	46-58	NA	NA	NA	84	78.1	79	71-89	NA	NA	NA	NA	NA	116.7	109.3	109	94-126		
LDLD	NA	NA	116	120	NA	85-147	NA	NA	70	73	NA	44-86	NA	NA	NA	NA	NA	23	23	NA	23	NA	11-33.0
Lipase	NA	NA	0.6	NA	0.4-0.8	NA	NA	NA	1.5	NA	NA	1.4-2.0	NA	NA	NA	NA	NA	2.3	NA	NA	NA	2.3-3.3	
Lithium*	NA	NA	1.2	1.2	0.8-1.6	NA	NA	NA	2.3	2.4	NA	1.9-2.7	NA	NA	NA	NA	NA	3.4	3.4	NA	NA	2.9-4.1	
Magnesium	NA	NA	29.6	29.6	NA	22-36	NA	NA	19.1	NA	NA	13.23	NA	NA	NA	NA	NA	9.3	NA	NA	NA	5-11.0	
Sallylate	NA	NA	121	118.2	119	113-127	139	140	140.8	140.3	139	134-148	NA	NA	NA	NA	NA	160	160.9	161.2	161	150-172	
Sodium	115	121	120.6	118.2	119	113-127	139	140	140.8	140.3	139	134-148	NA	NA	NA	NA	NA	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	NA	NA	NA	6.6	6.8	NA	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	NA	NA	NA	7.4	7.3	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	5.6-7.7	NA	NA	NA	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	NA	NA	NA	140	136	142	119-173		
Uric Acid	NA	NA	2.6	2.7	NA	2.2-3.0	NA	NA	7	7	NA	6.1-7.7	NA	NA	NA	NA	NA	10.9	10.7	NA	NA	9.9-11.9	

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

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

Beckman Vigil Serology Controls									
Site	MHC	MHC	MHC	MHC	MHC	MHC	MHC	MHC	MHC
Level 1	Level 1	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3	Level 3	Level 3
Assay	Result	Range	Result	Range	Result	Range	Result	Range	Result
CRP	0.8	0.2-1.2		5.4	5.5-7		7.5	6.8-8.8	

Beckman T4 Calibrators									
Site	MHC	Low Cal	Low Cal	High Cal	High Cal	High Cal	High Cal	High Cal	High Cal
Level 1	Level 1	Range	Result	33%	67%	High Cal	High Cal	High Cal	High Cal
Assay	Result	Range	0.4	6.1/6.2	13.0/13.0	19.4/19.8	19.3	19.3	19.3
T4	0.3/0.2								

Beckman D1/D2/D3 Bilirubin Controls									
Site	MHC	Finley	Dyer	MHC	Finley	Dyer	MHC	Finley	Dyer
Level 1	D1	D1	D1	D2	D2	D2	D3	D3	D3
Assay	Result	Result	Result	Result	Result	Result	Result	Result	Result
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 Synchro 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
Dilution	Saline	Saline	30%	30%	50%	50%	70%	70%	100%
MTP	RSL	RSL	98	101	160	160	227	224	316
									RSH

Biorad Multiquant Liquid Assayed Controls (Acid Phos slope set to 1.0)									
Site	MHC	Level 1 Range	Level 2	Level 2 Range	Level 3	Level 3 Range	Level 3	Level 3 Range	Level 3
Assay	Level 1	5.6	5-5-8.3	14.9	13.1-19.7	31.3	26.9-40.3	31.3	26.9-40.3
Acid Phos									

Beckman HbA1c Cal 2									
Site	Dyer	Result	Result	Target	Target	Target	Target	Target	Target
Level 1	Hem Rpt	1:2	DII	HbA1c Cal 2	HbA1c Cal 2	HbA1c Cal 2	HbA1c Cal 2	HbA1c Cal 2	HbA1c Cal 2
Assay	Result	Result	Result	Target	Target	Target	Target	Target	Target
Hb	RSL	8	17	17	17	17	17	17	17

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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 A-Fact Control lot #D9d1	
George King B-Fact Control lot #N7d1	

ACL 9000											
Hemosil Assayed Control Material											
Site	MHC	Low Abn	Low Abn	Normal	Normal	High Abn	High Abn	Low Fib	Low Fib	Low Fib	Low Fib
Level	Assay	Result	Target	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	86.1	70-104
Fibrinogen		136	108-178	283	260-380	NA	NA	NA	NA	NA	NA
Thrombin		20.2	18.2-24.6	12.4	12.7-16.7	NA	NA	NA	NA	NA	NA

ACL Classic											
Hemosil Assayed Control Material											
Site	Finley	Dyer	MAE	MAW	Low Abn	Low Abn	Low Abn	Finley	Dyer	MAE	MAW
Level	Assay	Result	Target	Result	Target	Target	Target	Result	Target	Result	Target
Protime		21.7	29.4	27.8	27.8	27.8	21.8-29.4	10.2	10.9	11.1	10.9
Fibrinogen		142	NA	NA	NA	110-150		291	NA	NA	275-365

*ACL 9000 range
no range listed for ACL Classic

ACL 9000											
George King Biomedical Assayed Control Material											
Target value listed in package insert was obtained using bioMerieux Automated APTT/MLA 900C.											
Site	MHC	Fact	A-Fact	A-Fact	B-Fact	B-Fact					
Level	Assay	Result	Target	Result	Target	Result	Target				
Factor VIII		82.2	116	11.7	7	34					39
Factor IX		98	115	5.2	9	57					45

ACL 9000											
D-Dimer											
Site	MHC	Low Control	1:1 dil	Calc target	High Control	High Control					
Level	Assay	Result	Range	Result	Range	Result	Range				
D-Dimer		307	255-426	485	485.5	664	542-733				

ACL 7000											
D-Dimer											
Site	Finley	Low Control	1:1 dil	Calc target	High Control	High Control					
Level	Assay	Result	Range	Result	Range	Result	Range				
D-Dimer		337	265-442	513	512	687	552-747				

