

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	
Site	MAE	MAW	MHC	Finley	Dyer	MAE	MAW	MHC	Finley	Dyer	MAE	MAW	MHC	Finley	Dyer
Level 1	Level 1	Level 1	Level 1	Level 1	Level 1	Level 2	Level 2	Level 2	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3	Level 3
Assay	Result	Result	Result	Result	Range	Result	Result	Result	Result	Range	Result	Result	Result	Result	Range
Albumin	NA	NA	2.3	2.2	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
ALP	NA	NA	38	38	39 27-47	NA	NA	NA	NA	155 147 150 124-174	NA	NA	NA	269	255 262 219-299
ALT	NA	NA	14	12	11 9-19.0	NA	NA	NA	NA	153 151 152 128-188	NA	NA	NA	288	285 250-350
Amylase	NA	NA	49	46	49 38-58	NA	NA	NA	NA	220 217 222 175-255	NA	NA	NA	393	388 321-441
AST	NA	NA	20	20	20 15-25	NA	NA	NA	NA	165 165 169 143-193	NA	NA	NA	299	308 270-350
BUN3	NA	NA	6	8	5-9.0	NA	NA	NA	NA	34 34 34 31-39	61	61	62	62	62 56-68
BUN	NA	NA	7.5	7.6	8 6.0-10.0	NA	NA	NA	NA	36 32-40	NA	NA	NA	NA	63 59-71
Calcium	82	83	7.5	7.8	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	NA	NA	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	0.3-0.7	4.1	4	4.1	4.2	NA 3.7-4.5	7.7	7.6	7.6	7.8	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	NA	35-61	NA	NA	NA	NA	158 158 137-177	NA	NA	NA	261	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	32-56	215	228	216	215	204-234	369	382	370	366	339-409
HDL	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	139-239	NA	NA	NA	350	257-377	NA	NA	NA	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	35-65	NA	NA	198	197	169-249	NA	NA	338	339	311-401
LDLD	NA	NA	52.4	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	85-147	NA	NA	70	73	NA 44-86	NA	NA	23	23	23 11-33.0
Lithium*	NA	NA	0.6	NA	0.4-0.8	NA	NA	1.5	NA	1.4-2.0	NA	NA	2.3	NA	2.3-3.3
Magnesium	NA	NA	1.2	1.2	0.8-1.6	NA	NA	2.3	2.4	1.9-2.7	NA	NA	3.4	3.4	2.9-4.1
Sallylate	NA	NA	29.6	NA	22-36	NA	NA	19.1	NA	13-23	NA	NA	9.3	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	1.5-2.3	NA	NA	4.2	4.5	NA 3.6-5.0	NA	NA	6.6	6.8	5.7-7.7
Total Bilirubin	NA	NA	1.1	0.9	0.5-1.5	NA	NA	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	142 119-173
Uric Acid	NA	NA	2.6	2.7	2.2-3.0	NA	NA	7	7	NA 6.1-7.7	NA	NA	10.9	10.7	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
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	
		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		Finley		Finley
Level	Level 1	Level 1	Level 2	Level 2	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
Level	Level 1	Level 1	Level 2	Level 2	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								
Level	Low Cal	Low Cal		33%		67%	High Cal	High Cal	
Assay	Result	Range	Result	Result	Result	Result	Target	Target	Result
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	D3	D3	D3
Assay	Result	Result	Result	Range	Result	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 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%	50%	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								
Assay	Level 1	Level 1 Range	Level 2	Level 2 Range	Level 3	Level 3 Range	Level 3	Level 3 Range	Level 3
Acid Phos		5.6 5.5-8.3		14.9 13.1-19.7		31.3 26.9-40.3			

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

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 A-Fact Control lot #427a1	
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	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	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				

