

Cal Ver CX_Misc_ACL all sites

Synchron Control Level 1 lot #M608321
 Synchron Control Level 2 lot #M608322
 Synchron Control Level 3 lot #M608323
 Amm/Alc Control Level 1 lot #M704811
 Amm/Alc Control Level 2 lot #M704812
 Amm/Alc Control Level 3 lot #M704813
 Biorad Multiqual Liquid Assayed Level 1 lot#45531
 Biorad Multiqual Liquid Assayed Level 2 lot#45532
 Biorad Multiqual Liquid Assayed Level 3 lot#45533
 Biorad HgA1c lin set lot#34610

Vigil Serology Control Level 2 lot#M703462
 Vigil Serology Control Level 3 lot#M703463
 Vigil Serology Control Level 1 lot#M703461
 Vigil Serology Control Level C lot#M703460
 Vigil Protein Control Level 1 lot#M703501
 Vigil Protein Control Level 2 lot#M703502
 Vigil Protein Control Level 3 lot#M703503
 D1 Control lot#M703531
 D2 Control lot#M703532
 D3 Control lot#M703533

The Pkg Insert Ranges are NOT the parameters used to trigger the "good" or "check" flags. These parameters are derived from a combination of experiential and cognitive element and are almost always quite a bit tighter than Pkg Insert Ranges; they are located for formula in columns that are off view from this pdf. The full spreadsheet with target parameters, background formula calcs., etc. is filed with the laboratory Technical Director/CIO

Ranges were obtained from control package inserts for the Beckman DxC Instruments.

Added Lactate and revised HbA1c using assayed materials. These need ranges set.

Beckman Synchron Controls

Assay	Site MAE		MAW Result	MHC Result	Finley Result	Dyer Result	Pkg Inserts		Range: Low - Hi	
	Result	Result					Result	Result		
Albumin	NA	NA	NA	2.3 good	2.2 good	2.3 good	1.9	2.7		
Albumin	NA	NA	NA	3.6 good	3.6 good	3.7 good	3.3	4.1		
Albumin	NA	NA	NA	5.1 good	5 good	5.1 good	4.5	5.7		
ALP	NA	NA	NA	39 good	35 good	41 good	29.0	49.0		
ALP	NA	NA	NA	144 good	143 good	152 good	121	171		
ALP	NA	NA	NA	250 good	250 good	263 good	211	291		
ALT	NA	NA	NA	27 good	29 good	26 good	23.0	33.0		
ALT	NA	NA	NA	162 good	175 good	159 good	140	200		
ALT	NA	NA	NA	305 good	301 check	289 check	282	346	Fin rpt 287/Dyer rpt 294(new rgt)	
Amylase	NA	NA	NA	45 good	47 good	47 good	35.0	55.0		
Amylase	NA	NA	NA	214 good	212 good	219 good	188	248		
Amylase	NA	NA	NA	379 good	379 good	385 good	349	429		
AST	NA	NA	NA	34 good	33 good	33 good	29.0	39.0		
AST	NA	NA	NA	175 good	175 good	172 good	156	208		
AST	NA	NA	NA	315 good	315 good	300 check	287	367	Dyer rpt 301(new rgt)	
BUN3	7 good	7 good	NA	NA	NA	NA	5.0	9.0		
BUN3	33 good	34 good	NA	NA	NA	NA	29	37		
BUN3	60 good	63 good	NA	NA	NA	NA	54	66		
BUN	NA	NA	8 good	9 good	8 good	6.0	10.0			
BUN	NA	NA	34 good	37 good	36 good	32	40			
BUN	NA	NA	64 good	67 good	63 good	59	71			
Calcium	7.9 good	7.7 good	7.2 good	7.5 good	7.8 good	7.1	8.3			
Calcium	10.7 good	10.6 good	10.5 good	10.5 good	10.8 good	9.9	11.5			
Calcium	13.5 good	13.4 good	13.9 good	13.3 good	13.5 good	12.4	14.8			
Chloride	81 good	81 good	78 good	78 good	81 good	74.0	82.0			
Chloride	100 good	100 good	99 good	99 good	101 good	94	104			
Chloride	119 good	120 good	119 good	118 good	120 good	114	126			
Cholesterol	NA	NA	103 good	106 good	103 good	89	119			
Cholesterol	NA	NA	160 good	165 good	165 good	144	184			
Cholesterol	NA	NA	225 good	227 good	224 good	207	247	target X target X sum		
CK	NA	NA	53 good	53 good	54 good	47.0	67.0	57.0 1074.0		
CK	NA	NA	328 good	332 good	338 good	311	411	361.0		
CK	NA	NA	592 good	598 good	604 good	556	756	656.0		
CO2	13 good	13 good	13 good	13 good	13 good	9.0	15.0	1074.0		
CO2	23 good	23 good	23 good	23 good	22 good	19	25			
CO2	33 good	33 good	34 good	34 good	33 good	27	37			
CRE3	0.5 good	0.5 good	NA	NA	NA	0.3	0.7			
CRE3	4.1 good	4.1 good	NA	NA	NA	3.7	4.5			
CRE3	7.7 good	7.7 good	NA	NA	NA	6.9	8.5			
Creatinine	NA	NA	0.5 good	0.5 good	0.5 good	0.3	0.7			
Creatinine	NA	NA	4 good	4 good	4 good	3.7	4.5			
Creatinine	NA	NA	7.1 good	7.2 good	7.3 good	6.7	8.3			
Iron	NA	NA	NA	55 good	NA	41.0	67.0			

Iron	NA	NA	NA	167	good	NA	145	185	
Iron	NA	NA	NA	268	good	NA	234	306	
GGT	NA	NA	12	good	12	good	15	good	
GGT	NA	NA	172	good	168	good	160	good	
GGT	NA	NA	322	good	316	good	300	good	
Glucose	NA	NA	NA	NA	NA	46	good	37	53
Glucose	NA	NA	NA	NA	NA	242	check	215	245
Glucose	NA	NA	NA	NA	NA	418	good	389	439
GLUm	44	good	43	good	42	good	44	good	NA
GLUm	222	good	222	good	221	good	220	good	NA
GLUm	401	good	366	check	391	good	388	good	NA
HDLd	NA	NA	27.5	good	26.5	good	26.4	good	
HDLd	NA	NA	37.6	good	38.4	good	39.4	good	
HDLd	NA	NA	52	good	52.2	good	52.1	good	
IBCT	NA	NA	NA	NA	203	good	NA	156	236
IBCT	NA	NA	NA	NA	321	good	NA	244	364
IBCT	NA	NA	NA	NA	449	good	NA	342	498
IgA	NA	NA	NA	NA	109	good	NA	96	138
IgA	NA	NA	NA	NA	174	good	NA	152	212
IgA	NA	NA	NA	NA	243	good	NA	205	301
IgG	NA	NA	NA	NA	489	good	NA	398	598
IgG	NA	NA	NA	NA	805	good	NA	667	957
IgG	NA	NA	NA	NA	1089	good	NA	948	1348
IgM	NA	NA	NA	NA	42	good	NA	34	52
IgM	NA	NA	NA	NA	67	good	NA	56	80
IgM	NA	NA	NA	NA	94	good	NA	77	113
Potassium	2.5	good	2.5	good	2.5	good	2.5	good	2.2
Potassium	5	good	5.1	good	4.9	good	5	good	5.1
Potassium	7.5	good	7.6	good	7.5	good	7.4	good	7.7
LD-L	NA	NA	47	good	47	good	50	good	35.0
LD-L	NA	NA	199	good	200	good	203	good	171
LD-L	NA	NA	341	check	352	good	349	good	306
LDLd	NA	NA	46.2	good	44.8	good	46.2	good	40.2
LDLd	NA	NA	83.5	good	81.9	good	84.3	good	76.1
LDLd	NA	NA	126	good	123.4	good	125	good	110.9
Lipase	NA	NA	119	good	126	check	NA	97.0	137.0
Lipase	NA	NA	71	good	73	good	NA	51	83
Lipase	NA	NA	30	check	20	good	NA	12	32
Lithium	NA	NA	0.68	good	NA	NA	NA	0.4	0.8
Lithium	NA	NA	1.46	good	NA	NA	NA	1.2	1.8
Lithium	NA	NA	2.33	good	NA	NA	NA	1.9	2.9
Magnesium	NA	NA	1.21	good	1.17	good	1.2	good	0.8
Magnesium	NA	NA	2.34	good	2.17	good	2.3	good	1.9
Magnesium	NA	NA	3.37	good	3.34	good	3.4	good	2.9
Salicylate	NA	NA	30.7	good	NA	NA	NA	22.0	36.0
Salicylate	NA	NA	20.1	good	NA	NA	NA	14	24
Salicylate	NA	NA	9.2	good	NA	NA	NA	5	11
Sodium	112	good	112	good	110	good	112	good	114
Sodium	135	good	136	good	133	good	136	good	137
Sodium	158	good	157	good	158	good	157	good	160
Phosphorus	NA	NA	1.9	good	2	good	2.1	good	1.6
Phosphorus	NA	NA	4.5	good	4.7	good	5	check	3.9
Phosphorus	NA	NA	7.2	good	7.3	good	7.6	good	6.3
Total Bilirubin	NA	NA	1	good	0.9	good	1	good	0.4
Total Bilirubin	NA	NA	3.9	good	4.1	good	3.7	good	3
Total Bilirubin	NA	NA	7.2	good	7.3	good	7	good	5.5
Total Protein	NA	NA	3.8	good	3.9	good	3.9	good	3.5
Total Protein	NA	NA	5.9	good	6	good	6.1	good	5.5
Total Protein	NA	NA	8.1	good	8.2	good	8.4	good	7.5

Dyers rpt 239

MAW rpt 383(recal)

MHC rpt 337

Fin rpt 130

MHC rpt 29

Dyer rpt 5.0

Triglyceride	NA	NA	77	good	83	good	80	good	63.0	93.0	
Triglyceride	NA	NA	120	good	125	good	118	good	99	139	
Triglyceride	NA	NA	163	good	167	good	157	good	133	183	
Uric Acid	NA	NA	2.4	good	2.5	good	2.6	good	2.1	2.9	
Uric Acid	NA	NA	6.8	good	6.8	good	7	good	6	7.6	
Uric Acid	NA	NA	11.1	good	11.1	good	11	good	9.8	11.7	
Beckman Ammonia/Alcohol Controls											
Ammonia Fin	NA	NA	NA		73	good	NA		36	104	
Ammonia Fin	NA	NA	NA		251	good	NA		206	274	
Ammonia Fin	NA	NA	NA		1084	good	NA		1030	1183	
Ammonia MHC	NA	NA	78	good	NA		NA		36	104	
Ammonia MHC	NA	NA	255	check	NA		NA		206	274	MHC rpt 255
Ammonia MHC	NA	NA	1089	good	NA		NA		1030	1183	
Alcohol	NA	NA	0.05	good	0.05	good	NA		0.04	0.06	
Alcohol	NA	NA	0.1	good	0.1	good	NA		0.09	0.12	
Alcohol	NA	NA	0.48	check	0.43	good	NA		0.41	0.499	MHC rpt 0.48
Beckman Vigil Serology Controls											
RF	NA	NA	NA		<20	#####	NA		no range		
RF	NA	NA	NA		64.6	good	NA		45.2	95.2	
RF	NA	NA	NA		177	good	NA		118	238	
ASO	NA	NA	NA		82.7	good	NA		68.3	101.9	
ASO	NA	NA	NA		181.6	good	NA		162	222	
ASO	NA	NA	NA		321.9	check	NA		308	398	Fin rpt 328.0
Beckman Vigil Serology Controls											
CRPH	NA	NA	0.9	good	NA		NA		0.56	1.06	
CRPH	NA	NA	16.3	good	NA		NA		12.01	22.01	
CRPH	NA	NA	54.5	good	NA		NA		41.9	61.9	
CRP	NA	NA	1.2	good	1.4	good	NA		0.8	1.8	
CRP	NA	NA	4.6	good	4.6	good	NA		4.2	5.4	
CRP	NA	NA	6.4	good	6.5	good	NA		5.6	7.6	
Beckman Vigil Protein Controls											
HPT	NA	NA	NA		80	good	NA		65.2	95.2	
HPT	NA	NA	NA		146	good	NA		130	166	
HPT	NA	NA	NA		213	good	NA		192	242	
Beckman D1/D2/D3 Bilirubin Controls											
Direct Bilirubin	NA	NA	0.8	good	0.8	good	0.8	good	0.4	1.2	
Direct Bilirubin	NA	NA	3.6	good	3.7	good	3.6	good	3.2	4.2	
Direct Bilirubin	NA	NA	5.4	good	5.4	good	5.4	good	4.7	6.1	
Beckman Synchron Level 1 Control diluted 1:10 w/saline. Run as CSF. Need independent target											
MTP	NA	NA	RSL	#####	RSL	#####	NA		#####	#VALUE!	
MTP	NA	NA	95	good	95	good	NA		81	109	
MTP	NA	NA	160	good	157	good	NA		135	182	
MTP	NA	NA	223	good	217	good	NA		187	253	
MTP	NA	NA	321	good	310	good	NA		275	371	
Biorad Multiqual Liquid Assayed Controls w/ Acid Phos slope set to 1.0											
Acid Phos	NA	NA	6.1	good	NA		NA		5.5	8.3	
Acid Phos	NA	NA	14.8	good	NA		NA		13.1	19.7	
Acid Phos	NA	NA	31.9	good	NA		NA		26.9	40.3	
Synchron L1 1:20 diluted w/ TI H20; assayed as UA 103 target											
MA microalb	NA	NA	NA		RSL	#####	NA		0.0	0.0	
MA microalb	NA	NA	NA		28.8	check	NA		27.8	34.0	no recheck

MA microalb	NA	NA	NA	50.7	good	NA	46.4	56.7
MA microalb	NA	NA	NA	70.8	good	NA	64.9	79.3
MA microalb	NA	NA	NA	103.2	good	NA	92.7	113.3

BNP Calibration Verification kit lot #187393
i-Stat Calibration Verification Material lot #B07220
MHC i-Stat cartridge lot #U07283
Dyer i-Stat cartridge lot #U07328
Dyer BNP cartridge lot #W41686
MHC BNP Cartridge lot #W42011B
Fin BNP Cartridge lot #W41745B
Finley I-Stat 1Lactate cartridge lot#W07301
MHC I-Stat Lactate cartridge lot#J07285

i-Stat1 Troponin Calibration Verification lot #M07312
MHC i-Stat1 Troponin lot #U07335A
Fin i-Stat1 Troponin lot #U07071
Beckman D1 Bilirubin Control lot #M703531
Beckman D2 Bilirubin Control lot #M703532
Beckman D3 Bilirubin Control lot #M703533
Beckman D4 Bilirubin Control lot #M703534
Wescor Sweat Controls lot#1504237
Biorad HbA1c lin set lot #34610

BNP D'ville	NA	NA	NA	NA	13.7	good	5	29
BNP D'ville	NA	NA	NA	NA	31.8	good	16.2	54
BNP D'ville	NA	NA	NA	NA	832	good	530	1360
BNP D'ville	NA	NA	NA	NA	2590	good	1420	4760
BNP	NA	NA	NA	NA	3970	good	1930	5000
BNP	NA	NA	15.9	good	10	check	5	29
BNP	NA	NA	34.1	good	32.2	good	16.2	54
BNP	NA	NA	1030	good	910	good	530	1360
BNP	NA	NA	2790	good	3130	good	1420	4760
BNP	NA	NA	3200	good	3330	good	1930	5000

pO2	NA	NA	72	good	NA	69	good	54.6	80.6
pO2	NA	NA	80	good	NA	75	good	66.9	92.9
pO2	NA	NA	103	good	NA	97	good	87.9	114.1
pO2	NA	NA	132	good	NA	129	good	113	146.6
pO2	NA	NA	324	good	NA	337	good	284.3	387.9
pCO2	NA	NA	86.3	good	NA	86.6	good	78.92	96.06
pCO2	NA	NA	58.4	good	NA	60.3	good	54.68	66.92
pCO2	NA	NA	23.9	good	NA	25	good	19.31	30.09
pCO2	NA	NA	17.5	good	NA	17.9	good	13.06	23.34
pCO2	NA	NA	16	good	NA	16.3	good	10.87	20.67
pH	NA	NA	6.818	good	NA	6.821	good	6.765	6.863
pH	NA	NA	7.164	good	NA	7.166	good	7.114	7.212
pH	NA	NA	7.46	good	NA	7.463	good	7.41	7.508
pH	NA	NA	7.697	good	NA	7.695	good	7.651	7.749
pH	NA	NA	8.147	good	NA	8.149	good	8.103	8.201

lactate			17.65		18.23		15.12	20.34
lactate			8.03		8.08		6.96	8.68
lactate			2.05		2.07		1.62	2.44
lactate			0.82		0.8		0.4	1.22
lactate			0.44		0.44		0.04	0.86

Advance Bilirubinometer; CX calibrator

total Bilirubin	1.5	good	1.7	check	NA	NA	NA	1	1.8	MAW rpt 1.7
total Bilirubin	5.4	good	5.6	good	NA	NA	NA	4.8	6.2	
total Bilirubin	7.9	good	8.2	good	NA	NA	NA	7.3	9.1	
total Bilirubin	17.1	good	16.1	good	NA	NA	NA	14.7	18.3	
direct Bilirubin	0.6	check	0.6	check	NA	NA	NA	0.4	1.2	MAW rpt 0.4/MAE rpt 0.6
direct Bilirubin	3.5	good	3.2	check	NA	NA	NA	3.1	4.1	MAW rpt 3.2
direct Bilirubin	5.6	good	5.2	good	NA	NA	NA	4.7	6.1	
direct Bilirubin	10.8		10.4		NA	NA	NA			no ranges
sweat Chloride	NA	NA	46	check	NA	NA	NA	38	46	no recheck
sweat Chloride	NA	NA	71	good	NA	NA	NA	65	79	
sweat Chloride	NA	NA	133	good	NA	NA	NA	121	147	

Troponin iSTAT NA	NA	0.33	good	0.32	good	NA	0.24	0.44
Troponin iSTAT NA	NA	1.83	good	1.54	good	NA	1.27	2.37
Troponin iSTAT NA	NA	29.49	good	35.52	good	NA	18.24	48.1

manufacturer's recommendation for HbA1c "cal ver" is linearity kit w/ specific targets

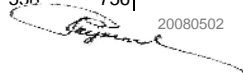
HbA1c	NA	2.9	check	NA	NA	3	check	2.8	need to calc ranges
HbA1c	NA	6	check	NA	NA	5.5	check	6	
HbA1c	NA	10.8	check	NA	NA	9.9	check	10.7	
HbA1c	NA	20.6	check	NA	NA	18	check	19.5	

Hemosil Assayed Low Abnormal Control lot #N1074992
 Hemosil Assayed Normal Control lot #N1162855
 Hemosil Assayed High Abnormal Control lot #N0373575
 Hemosil Assayed Low Fibrinogen Control lot #N09746211

D-Dimer Low Control lot #B70575
 D-Dimer High Control lot #B70575

Ranges for Elite Pro obtained from Beckman.
 No peer data available for Elite Pro/Recombiplastin 2G.

Protim Elite	19.2	check	19.9	check	20	check	19.8	check	20.2	check	18.9	25.5	low abn	no recheck
Protim Elite	11.2	check	11.2	check	11.1	check	11.2	check	11.4	check	10.9	13.9	nm	no recheck
Protim Elite	28.4	check	29.7	check	31	check	29.4	check	29	check	29.1	39.4	hi abn	MAE rpt 30.8/MAW rpt 29.8/MHC rpt 30.4/Fin rpt 29.2/Dyers rpt 29.5
Fibrinogen Elite	NA	NA	NA	112	good	112	good	NA	NA	NA	89	169	low fib	
Fibrinogen Elite	NA	NA	NA	195	good	199	check	NA	NA	NA	150	210	low abn	no recheck
Fibrinogen Elite	NA	NA	NA	327	good	357	good	NA	NA	NA	288	388	nm	
Thrombin Elite	NA	NA	NA	19.4	good	NA	NA	NA	NA	NA	17.2	23.2	low abn	
Thrombin Elite	NA	NA	NA	14.6	check	NA	NA	NA	NA	NA	14.1	18.1	nm	no recheck
D-dimer	NA	NA	NA	331	good	315	good	NA	NA	NA	263	439		
D-dimer	NA	NA	NA	486	good	486	good	NA	NA	NA	398.5	574.5		
D-dimer	NA	NA	NA	629	good	647	good	NA	NA	NA	558	756		

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