

Analyzer / Constituent	20302 exp. 06-13		20301 exp. 04-13		
	Units	Level 1 Control	Level 2 Control		
		Mean	Range	Mean	Range
Beckman CX					
Albumin	g/dL	2.3	2.1 - 2.5	4.2	3.8 - 4.6
Alkaline Phosphatase	U/L	123	86 - 160	232	162 - 302
ALT (SGPT)	U/L	58	46 - 70	130	104 - 156
Amylase	U/L	248	174 - 322	549	384 - 714
AST (SGOT)	U/L	74	59 - 89	233	189 - 280
Direct Bilirubin	mg/dL	0.8	0.4 - 1.2	4.2	3.4 - 5.0
Total Bilirubin	mg/dL	1.0	0.6 - 1.4	4.4	3.5 - 5.3
BUN	mg/dL	17	15 - 19	55	50 - 60
Calcium (CPC)	mg/dL	9.1	8.1 - 10.1	12.5	11.5 - 13.5
Cholesterol	mg/dL	151	136 - 166	324	292 - 356
Carbon Dioxide	mEq/L	12	7 - 17	22	17 - 27
CK/CPK	U/L	157	110 - 204	266	186 - 346
Creatinine	mg/dL	1.2	0.9 - 1.5	4.4	3.7 - 5.1
GGTP	U/L	42	29 - 55	126	101 - 151
Glucose Hex	mg/dL	94	85 - 103	323	291 - 355
Glucose Ox	mg/dL	92	83 - 101	287	258 - 316
HDL (auto)	mg/dL	70	49 - 91	149	104 - 194
Iron	µg/dL	58	46 - 70	210	168 - 252
Lactate	mmol/L	1.5	1.3 - 1.7	3.5	3.3 - 3.7
LDH	U/L	98	78 - 118	284	227 - 341
Magnesium	mg/dL	1.3	1.0 - 1.6	3.1	2.3 - 3.9
Phosphorus	mg/dL	3.6	3.2 - 4.0	7.1	6.3 - 7.9
Total Protein	g/dL	3.7	3.3 - 4.1	7.0	6.3 - 7.7
Trig-GPO	mg/dL	93	70 - 116	203	152 - 254
Uric Acid Liquid	mg/dL	5.0	4.1 - 5.9	10.1	8.4 - 11.8

Analyzer / Constituent	Level 1 Control		Level 2 Control		
	Units	Mean	Range	Mean	Range
Hitachi 717					
Albumin	g/dL	2.4	2.2 - 2.6	4.2	3.8 - 4.6
Alkaline Phosphatase	U/L	106	74 - 138	202	141 - 263
ALT (SGPT)	U/L	54	43 - 65	128	102 - 154
Amylase	U/L	216	151 - 281	478	335 - 621
AST (SGOT)	U/L	66	53 - 79	222	178 - 266
Direct Bilirubin	mg/dL	0.6	0.2 - 1.0	3.7	3.0 - 4.4
Total Bilirubin	mg/dL	0.8	0.4 - 1.2	3.2	2.6 - 3.8
BUN	mg/dL	15	13 - 17	52	47 - 57
Calcium (CPC)	mg/dL	9.8	8.8 - 10.8	13.7	12.7 - 14.7
Chloride	mEq/L	*92	87 - 97	*109	103 - 115
Cholesterol	mg/dL	147	132 - 162	311	280 - 342
Carbon Dioxide	mEq/L	13	8 - 18	31	26 - 36
CK/CPK	U/L	149	104 - 194	258	181 - 335
Creatinine	mg/dL	1.3	1.0 - 1.6	4.7	4.0 - 5.4
GGTP	U/L	43	30 - 56	139	111 - 167
Glucose Hex	mg/dL	94	85 - 103	321	289 - 353
Glucose Ox	mg/dL	97	87 - 107	338	304 - 372
HDL (auto)	mg/dL	72	50 - 94	142	99 - 185
Iron	µg/dL	62	50 - 74	224	179 - 269
Lactate	mmol/L	1.5	1.3 - 1.7	3.4	3.2 - 3.6
Lipase	U/L	55	38 - 72	148	104 - 192
LDH	U/L	97	78 - 116	278	222 - 334

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	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Hitachi 717						
Magnesium	mg/dL	1.3	1.0 - 1.6	2.9	2.2 - 3.6	
Phosphorus	mg/dL	4.0	3.6 - 4.4	7.8	7.0 - 8.6	
Potassium	mEq/L	*3.3	2.8 - 3.8	*5.9	5.4 - 6.4	
Sodium	mEq/L	*122	118 - 126	*145	141 - 149	
Total Protein	g/dL	3.9	3.5 - 4.3	7.2	6.5 - 7.9	
Trig-GPO	mg/dL	102	76 - 128	216	162 - 270	
Uric Acid Liquid	mg/dL	4.6	3.8 - 5.4	9.3	7.7 - 10.9	

	20302 exp. 06-13				20301 exp. 04-13	
	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Hitachi 917						
Albumin	g/dL	2.6	2.3 - 2.9	4.6	4.1 - 5.1	
Alkaline Phosphatase	U/L	117	82 - 152	220	154 - 286	
ALT (SGPT)	U/L	63	50 - 76	149	119 - 179	
Amylase	U/L	274	192 - 356	552	386 - 718	
AST (SGOT)	U/L	76	61 - 91	250	200 - 300	
Direct Bilirubin	mg/dL	0.6	0.2 - 1.0	4.4	3.5 - 5.3	
Total Bilirubin	mg/dL	0.9	0.5 - 1.3	3.7	3.0 - 4.4	
BUN	mg/dL	16	14 - 18	54	49 - 59	
Calcium (CPC)	mg/dL	9.6	8.6 - 10.6	13.9	12.9 - 14.9	
Chloride	mEq/L	*92	87 - 97	*106	101 - 111	
Cholesterol	mg/dL	153	138 - 168	321	289 - 353	
Carbon Dioxide	mEq/L	11	6 - 16	24	19 - 29	
CK/CPK	U/L	166	116 - 216	282	197 - 367	
Creatinine	mg/dL	1.2	0.9 - 1.5	4.6	3.9 - 5.3	
GGTP	U/L	41	29 - 53	127	102 - 152	
Glucose Hex	mg/dL	95	85 - 105	331	298 - 364	
HDL (auto)	mg/dL	75	52 - 98	142	99 - 185	
Iron	µg/dL	50	40 - 60	177	142 - 212	
LDH	U/L	115	92 - 138	312	250 - 374	
Magnesium	mg/dL	1.4	1.0 - 1.8	3.1	2.3 - 3.9	
Phosphorus	mg/dL	4.1	3.7 - 4.5	7.7	6.9 - 8.5	
Potassium	mEq/L	*3.5	3.0 - 4.0	*6.1	5.6 - 6.6	
Sodium	mEq/L	*127	123 - 131	*152	148 - 156	
TIBC direct	µg/dL	231	173 - 289	380	285 - 475	
Total Protein	g/dL	3.8	3.4 - 4.2	7.3	6.6 - 8.0	
Trig-GPO	mg/dL	95	71 - 119	199	149 - 249	
Uric Acid Liquid	mg/dL	5.4	4.5 - 6.3	10.8	9.0 - 12.6	

	20302 exp. 06-13				20301 exp. 04-13	
	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Olympus AU 400/640						
Albumin	g/dL	2.5	2.2 - 2.8	4.5	4.0 - 5.0	
Alkaline Phosphatase	U/L	107	75 - 139	203	142 - 264	
ALT (SGPT)	U/L	57	46 - 68	132	106 - 158	
Amylase	U/L	306	214 - 398	656	459 - 853	
AST (SGOT)	U/L	69	55 - 83	234	187 - 281	
Direct Bilirubin	mg/dL	0.7	0.3 - 1.1	3.7	3.0 - 4.4	
Total Bilirubin	mg/dL	0.8	0.4 - 1.2	3.6	2.9 - 4.3	
BUN	mg/dL	15	13 - 17	52	47 - 57	
Chloride	mEq/L	*93	88 - 98	*108	103 - 113	
Cholesterol	mg/dL	148	133 - 163	307	276 - 338	
Carbon Dioxide	mEq/L	10	5 - 15	23	18 - 28	

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	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Olympus AU 400/640						
CK/CPK	U/L	172	120 - 224	291	204 - 378	
Creatinine	mg/dL	1.2	0.9 - 1.5	4.8	4.1 - 5.5	
GGTP	U/L	36	25 - 47	112	90 - 134	
Glucose Hex	mg/dL	98	88 - 108	334	301 - 367	
HDL (auto)	mg/dL	73	51 - 95	139	97 - 181	
Iron	µg/dL	56	45 - 67	201	161 - 241	
LDH	U/L	101	81 - 121	272	218 - 326	
Lipase (color)	U/L	46	32 - 60	126	88 - 164	
Magnesium	mg/dL	1.5	1.1 - 1.9	3.3	2.5 - 4.1	
Phosphorus	mg/dL	3.8	3.4 - 4.2	6.9	6.2 - 7.6	
Potassium	mEq/L	*4.1	3.6 - 4.6	*6.7	6.2 - 7.2	
Sodium	mEq/L	*138	134 - 142	*161	157 - 165	
TIBC direct	µg/dL	232	174 - 290	384	288 - 480	
Total Protein	g/dL	4.5	4 - 5	7.7	6.9 - 8.5	
Trig-GPO	mg/dL	100	75 - 125	210	158 - 262	
Uric Acid Liquid	mg/dL	5.4	4.5 - 6.3	10.3	8.5 - 12.1	

	20302 exp. 06-13				20301 exp. 04-13	
	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Mindray BS-200						
Albumin	g/dL	2.6	2.3 - 2.9	4.4	4.0 - 4.8	
Alkaline Phosphatase	U/L	111	78 - 144	211	148 - 274	
ALT (SGPT)	U/L	66	53 - 79	151	121 - 181	
Amylase	U/L	296	207 - 385	644	451 - 837	
AST (SGOT)	U/L	74	59 - 89	238	190 - 286	
BUN	mg/dL	14	12 - 16	48	44 - 52	
Direct Bilirubin	mg/dL	0.7	0.3 - 1.1	3.5	2.8 - 4.2	
Total Bilirubin	mg/dL	0.9	0.5 - 1.3	4.2	3.4 - 5.0	
Calcium (AR-III)	mg/dL	9.4	8.4 - 10.4	13.2	12.2 - 14.2	
Cholesterol	mg/dL	143	129 - 157	289	260 - 318	
Carbon Dioxide	mEq/L	9	4 - 14	22	17 - 27	
CK/CPK	U/L	170	119 - 221	290	203 - 377	
Creatinine	mg/dL	1.3	1.0 - 1.6	4.9	4.2 - 5.6	
GGTP	U/L	41	29 - 53	134	107 - 161	
Glucose Hex	mg/dL	97	87 - 107	324	292 - 356	
Glucose Ox	mg/dL	87	78 - 96	306	275 - 337	
HDL (auto)	mg/dL	81	57 - 105	149	104 - 194	
Iron	µg/dL	62	50 - 74	215	172 - 258	
Lactate	mmol/L	1.4	1.2 - 1.6	3.2	3.0 - 3.4	
LDH	U/L	123	98 - 148	340	272 - 408	
Lipase	U/L	45	31 - 59	137	96 - 178	
Magnesium	mg/dL	1.4	1.0 - 1.8	3.3	2.5 - 4.1	
Phosphorus	mg/dL	3.8	3.4 - 4.2	7.4	6.6 - 8.2	
Total Protein	g/dL	3.5	3.1 - 3.9	6.8	6.1 - 7.5	
Trig-GPO	mg/dL	89	67 - 111	186	139 - 233	
Uric Acid Liquid	mg/dL	5.2	4.3 - 6.1	10.0	8.3 - 11.7	

Selectra	20302 exp. 06-13				20301 exp. 04-13	
	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Albumin	g/dL	2.3	2.1 - 2.5	4.3	3.9 - 4.7	
Alkaline Phosphatase	U/L	113	79 - 147	219	153 - 285	
ALT (SGPT)	U/L	61	49 - 73	140	112 - 168	
Amylase	U/L	285	199 - 371	625	437 - 813	
AST (SGOT)	U/L	74	59 - 89	242	194 - 290	
Direct Bilirubin	mg/dL	0.5	0.1 - 0.9	2.7	2.2 - 3.2	
Total Bilirubin	mg/dL	0.9	0.5 - 1.4	4.5	3.6 - 5.4	
BUN	mg/dL	14	12 - 16	47	43 - 51	
Calcium (AR-III)	mg/dL	8.2	7.2 - 9.2	12.0	11.0 - 13.0	
Cholesterol	mg/dL	143	129 - 157	300	270 - 330	
Carbon Dioxide	mEq/L	10	5 - 15	22	17 - 27	
CK/CPK	U/L	176	123 - 229	294	206 - 302	
Creatinine	mg/dL	1.2	0.9 - 1.5	4.4	3.7 - 5.1	
GGTP	U/L	37	26 - 48	120	96 - 144	
Glucose Hex	mg/dL	95	85 - 105	317	285 - 349	
HDL (auto)	mg/dL	77	54 - 100	147	103 - 191	
LDH	U/L	104	83 - 125	271	217 - 325	
Magnesium	mg/dL	1.5	1.1 - 1.9	3.6	2.6 - 4.6	
Phosphorus	mg/dL	3.8	3.4 - 4.2	7.4	6.6 - 8.2	
Total Protein	g/dL	4.1	3.7 - 4.5	7.5	6.7 - 8.3	
Trig-GPO	mg/dL	91	68 - 114	200	150 - 250	
Uric Acid Liquid	g/dL	5.3	4.4 - 6.2	9.7	8.0 - 11.4	

Roche-Cobas Mira	20302 exp. 06-13				20301 exp. 04-13	
	Units	Level 1 Control		Level 2 Control		
		Mean	Range	Mean	Range	
Alkaline Phosphatase	U/L	119	83 - 155	219	133 - 305	
Albumin	g/dL	2.3	2.1 - 2.5	4.1	3.7 - 4.5	
Amylase	U/L	228	160 - 296	502	351 - 653	
ALT (SGPT)	U/L	56	45 - 67	125	100 - 150	
AST (SGOT)	U/L	69	55 - 83	222	178 - 266	
Direct Bilirubin	mg/dL	0.4	0.0 - 0.8	1.8	1.4 - 2.2	
Total Bilirubin	mg/dL	1.0	0.6 - 1.4	4	4 - 5	
BUN	mg/dL	16	14 - 18	53	48 - 58	
Calcium (CPC)	mg/dL	9.6	8.6 - 10.6	13.7	12.7 - 14.7	
Calcium (AR-III)	mg/dL	8.8	7.8 - 9.8	13.1	12.1 - 14.1	
Chloride	mEq/L	97*	92 - 102	106*	101 - 111	
Cholesterol	mg/dL	146	131 - 161	298	268 - 328	
Carbon Dioxide	mEq/L	10	5 - 15	24	19 - 29	
CK/CPK	U/L	161	113 - 209	265	185 - 345	
Creatinine	mg/dL	1.1	0.8 - 1.4	4.2	3.6 - 4.8	
GGTP	U/L	37	26 - 48	121	97 - 145	
Glucose Hex	mg/dL	101	91 - 111	339	305 - 373	
HDL (auto)	mg/dL	83	58 - 108	155	108 - 202	
Iron	µg/dL	54	43 - 65	204	163 - 245	
LDH	U/L	112	90 - 134	286	229 - 343	
Magnesium	mg/dL	1.4	1.0 - 1.8	3.4	2.5 - 4.3	
Phosphorous	mg/dL	4.1	3.7 - 4.5	8.6	7.7 - 9.5	
Total Protein	g/dL	3.5	3.1 - 3.9	6.6	5.9 - 7.3	
Trig-GPO	mg/dL	104	78 - 130	212	159 - 265	
Uric Acid Liquid	mg/dL	4.4	3.7 - 5.1	9.2	7.6 - 10.8	