

Clinical Chemistry Control– Level 3

Assignment of values (**REF** BYZKD0303 **LOT** 03H1102)

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
Toshiba TBA-120FR/TBA-FX8	ADA	U/L	52.80	4.99	37.84-67.76
	ALB	g/L	42.56	4.09	30.30-54.82
	ALP	U/L	273.00	24.60	199.21-346.79
	ALT	U/L	174.01	16.65	124.07-223.95
	α-AMY	U/L	285.22	27.25	203.48-366.96
	AST	U/L	257.36	23.48	186.92-327.80
	Ca	mmol/L	3.20	0.31	2.26-4.14
	CHE	U/L	7563	695.00	5476-9649
	CK	U/L	480.58	46.45	341.23-619.93
	CL	mmol/L	113.67	10.39	82.49-144.85
	Cre	μmol/L	489.04	46.12	350.69-627.39
	Cu	μmol/L	24.10	2.41	16.88-31.32
	DBIL	μmol/L	46.74	4.60	32.95-60.53
	Fe	μmol/L	30.53	2.99	21.56-39.50
	GLU	mmol/L	14.77	1.42	10.51-19.03
	GGT	U/L	155.87	14.24	113.14-198.60
	Li	mmol/L	3.22	0.30	2.32-4.12
	HBDH	U/L	397.81	36.10	289.51-506.11
	HDL-C	mmol/L	1.66	0.15	1.21-2.11
	K	mmol/L	5.52	0.51	3.98-7.06
	LAC	mmol/L	5.39	0.51	3.87-6.91
	LDH	U/L	381.30	36.65	271.35-491.25
	LDL-C	mmol/L	2.40	0.23	1.70-3.10
	LPS	U/L	77.24	7.07	56.04-98.44
	Mg	mmol/L	1.70	0.15	1.24-2.16
	Na	mmol/L	157.94	15.21	112.31-203.57
	P	mmol/L	2.23	0.21	1.60-2.86
	P-AMY	U/L	230.58	21.62	165.73-295.43
	TBA	μmol/L	41.84	3.95	30.00-53.68
	TBIL	μmol/L	93.65	9.23	65.95-121.35
	TC	mmol/L	5.11	0.47	3.70-6.52

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
Toshiba TBA-120FR/TBA-FX8	TG	mmol/L	2.38	0.23	1.69-3.07
	TIBC	μmol/L	56.70	5.34	40.67-72.73
	TP	g/L	66.60	6.09	48.34-84.86
	UA	μmol/L	540.32	51.18	386.78-693.86
	Urea	mmol/L	24.00	2.38	16.87-31.13
	Zn	μmol/L	39.50	3.83	28.01-50.99
	5'-NT	U/L	41.19	3.98	29.24-53.14
Beckman Coulter AU680	ADA	U/L	41.18	3.91	29.46-52.90
	ALB	g/L	41.41	3.96	29.54-53.28
	ALP	U/L	304.04	28.04	219.93-388.15
	ALT	U/L	154.98	15.22	109.31-200.65
	α-AMY	U/L	269.41	24.66	195.44-343.39
	AST	U/L	255.02	24.20	182.42-327.61
	Ca	mmol/L	3.14	0.28	2.28-3.99
	CHE	U/L	7266	641.00	5343-9188
	CK	U/L	490.08	42.92	361.31-618.85
	CL	mmol/L	115.20	10.86	82.61-147.79
	Cre	μmol/L	460.86	38.28	346.02-575.70
	Cu	μmol/L	25.93	2.35	18.88-32.97
	DBIL	μmol/L	49.08	4.65	35.13-63.00
	Fe	μmol/L	33.35	3.11	24.01-42.69
	GLU	mmol/L	13.84	1.29	9.98-17.70
	GGT	U/L	148.57	13.30	108.65-188.48
	HBDH	U/L	365.52	33.59	264.74-466.30
	HDL-C	mmol/L	1.57	0.14	1.14-2.00
	K	mmol/L	6.34	0.62	4.49-8.19
	LAC	mmol/L	4.66	0.47	3.26-6.07
	LDH	U/L	359.31	31.08	266.08-452.53
	LDL-C	mmol/L	2.78	0.25	2.03-3.53
	LPS	U/L	66.35	6.20	47.75-84.94
	Mg	mmol/L	1.39	0.12	1.02-1.77
	Na	mmol/L	153.66	14.92	108.88-198.43
	P-AMY	U/L	204.83	19.94	145.01-264.65
	P	mmol/L	2.27	0.21	1.64-2.89
	TBA	μmol/L	43.50	4.04	31.37-55.63
	TBIL	μmol/L	93.45	8.76	67.17-119.73
	TC	mmol/L	4.92	0.44	3.60-6.23
	TG	mmol/L	2.52	0.24	1.80-3.25

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
Beckman Coulter AU680	TIBC	μmol/L	63.68	5.68	45.90-81.45
	TP	g/L	68.06	6.36	48.98-87.14
	Urea	mmol/L	23.28	2.18	16.74-29.83
	UA	μmol/L	572.28	51.63	417.38-727.17
	Zn	μmol/L	46.79	4.15	34.33-59.25
	5'-NT	U/L	48.53	4.44	35.21-61.84
Beckman Coulter AU5800	ADA	U/L	55.30	5.53	38.71-71.89
	ALB	g/L	42.65	4.27	29.86-55.45
	ALP	U/L	350.00	35.00	245.00-455.00
	ALT	U/L	160.05	16.01	112.04-208.07
	α-AMY	U/L	262.00	26.20	183.40-340.60
	AST	U/L	281.85	28.19	197.30-366.41
	Ca	mmol/L	3.20	0.32	2.24-4.16
	CHE	U/L	6960	696.00	4872-9048
	CK	U/L	395.50	39.55	276.85-514.15
	CL	mmol/L	114.10	11.41	79.87-148.33
	Cre	μmol/L	492.00	49.20	344.40-639.60
	Cu	μmol/L	21.38	2.14	14.97-27.79
	DBIL	μmol/L	56.25	5.63	39.38-73.13
	Fe	μmol/L	31.33	3.13	21.93-40.73
	GGT	U/L	157.50	15.75	110.25-204.75
	GLU	mmol/L	14.37	1.44	10.06-18.68
	HBDH	U/L	349.00	34.90	244.30-453.70
	HDL-C	mmol/L	1.15	0.12	0.81-1.50
	K	mmol/L	5.68	0.57	3.98-7.38
	LDH	U/L	352.00	35.20	246.40-457.60
	LDL-C	mmol/L	2.55	0.26	1.79-3.32
	Mg	mmol/L	1.66	0.17	1.16-2.16
	Na	mmol/L	151.45	15.15	106.02-196.89
	P	mmol/L	2.22	0.22	1.55-2.89
	TBA	μmol/L	33.80	3.38	23.66-43.94
	TBIL	μmol/L	100.45	10.05	70.32-130.59
	TC	mmol/L	5.24	0.52	3.67-6.81
	TG	mmol/L	2.45	0.25	1.72-3.19
	TP	g/L	65.30	6.53	45.71-84.89
	UA	μmol/L	576.50	57.65	403.55-749.45
	Urea	mmol/L	22.44	2.24	15.71-29.17

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
Mindray BS-2800	ALB	g/L	40.10	4.01	28.07-52.13
	ALP	U/L	313.60	31.36	219.52-407.68
	ALT	U/L	154.30	15.43	108.01-200.59
	α -AMY	U/L	264.10	26.41	184.87-343.33
	AST	U/L	288.90	28.89	202.23-375.57
	Ca	mmol/L	2.96	0.30	2.07-3.85
	CHE	U/L	7003	700.00	4902-9104
	CK	U/L	369.30	36.93	258.51-480.09
	CL	mmol/L	109.70	10.97	76.79-142.61
	Cre	μ mol/L	485.50	48.55	339.85-631.15
	DBIL	μ mol/L	/	/	/
	Fe	μ mol/L	31.70	3.17	22.19-41.21
	GGT	U/L	143.90	14.39	100.73-187.07
	GLU	mmol/L	14.32	1.43	10.02-18.62
	HBDH	U/L	397.40	39.74	278.18-516.62
	HDL-C	mmol/L	1.00	0.10	0.70-1.30
	K	mmol/L	5.63	0.56	3.94-7.32
	LDH	U/L	357.70	35.77	250.39-465.01
	LDL-C	mmol/L	2.77	0.28	1.94-3.60
	LPS	U/L	71.44	7.14	50.01-92.87
	Mg	mmol/L	1.65	0.17	1.16-2.15
	Na	mmol/L	148.90	14.89	104.23-193.57
	P	mmol/L	2.22	0.22	1.55-2.89
	TBA	μ mol/L	31.80	3.18	22.26-41.34
	TBIL	μ mol/L	/	/	/
	TC	mmol/L	4.17	0.42	2.92-5.42
	TG	mmol/L	2.37	0.24	1.66-3.08
	TP	g/L	65.20	6.52	45.64-84.76
	UA	μ mol/L	536.00	53.60	375.20-696.80
	Urea	mmol/L	23.95	2.40	16.77-31.14
AutoChem B2000	5'-NT	U/L	46.80	4.68	32.76-60.84
	ADA	U/L	57.30	5.73	40.11-74.49
	ALB	g/L	42.42	4.24	29.69-55.15
	ALP	U/L	284.45	28.45	199.12-369.79
	ALT	U/L	169.45	16.95	118.62-220.29
	AST	U/L	257.45	25.75	180.22-334.69
	Ca	mmol/L	3.15	0.32	2.21-4.10
	CHE	U/L	7401	740.00	5181-9621

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
AutoChem B2000	CK	U/L	486.25	48.63	340.38-632.13
	CL	mmol/L	114.82	11.48	80.37-149.27
	Cre	μmol/L	493.20	49.32	345.24-641.16
	Cu	μmol/L	23.20	2.32	16.24-30.16
	DBIL	μmol/L	47.21	4.72	33.05-61.37
	Fe	μmol/L	30.93	3.09	21.65-40.21
	GGT	U/L	158.26	15.83	110.78-205.74
	GLU	mmol/L	14.23	1.42	9.96-18.50
	HBDH	U/L	390.80	39.08	273.56-508.04
	HDL-C	mmol/L	1.58	0.16	1.11-2.05
	K	mmol/L	5.61	0.56	3.93-7.29
	LAC	mmol/L	5.21	0.52	3.65-6.77
	LDH	U/L	373.30	37.33	261.31-485.29
	LDL-C	mmol/L	2.40	0.24	1.68-3.12
	LPS	U/L	83.23	8.32	58.26-108.20
	Mg	mmol/L	1.66	0.17	1.16-2.16
	Na	mmol/L	150.95	15.10	105.67-196.24
	P	mmol/L	2.26	0.23	1.58-2.94
	P-AMY	U/L	226.50	22.65	158.55-294.45
	TBA	μmol/L	39.04	3.90	27.33-50.75
	TBIL	μmol/L	92.46	9.25	64.72-120.20
	TC	mmol/L	4.87	0.49	3.41-6.33
	TG	mmol/L	2.26	0.23	1.58-2.94
	TIBC	μmol/L	58.63	5.86	41.04-76.22
	TP	g/L	67.70	6.77	47.39-88.01
	UA	μmol/L	538.85	53.89	377.20-700.51
	Urea	mmol/L	22.84	2.28	15.99-29.69
	Zn	μmol/L	38.02	3.80	26.61-49.43
	α-AMY	U/L	281.55	28.16	197.09-366.02
Roche cobas c701	ALB	g/L	41.20	4.12	28.84-53.56
	α-AMY	U/L	248.00	24.80	173.60-322.40
	Ca	mmol/L	3.07	0.31	2.15-3.99
	CHE	U/L	6900	690.00	4830-8970
	CK	U/L	458.00	45.80	320.60-595.40
	CL	mmol/L	108.50	10.85	75.95-141.05
	Cre	μmol/L	472.50	47.25	330.75-614.25
	DBIL	μmol/L	45.81	4.58	32.07-59.553
	GLU	mmol/L	13.69	1.37	9.58-17.80

Instrument	Analyte	Unit	Clinical Chemistry Control Level3		
			Target	SD	Range
Roche cobas c701	HDL-C	mmol/L	0.84	0.08	0.59-1.09
	K	mmol/L	5.66	0.57	3.96-7.36
	LAC	mmol/L	4.86	0.49	3.40-6.32
	LDH	U/L	377.00	37.70	263.90-490.10
	LDL-C	mmol/L	2.43	0.24	1.70-3.16
	LPS	U/L	70.91	7.09	49.64-92.18
	Mg	mmol/L	1.65	0.17	1.16-2.15
	Na	mmol/L	149.50	14.95	104.65-194.35
	P	mmol/L	2.14	0.21	1.50-2.78
	TBIL	μmol/L	90.35	9.04	63.25-117.46
	TC	mmol/L	4.10	0.41	2.87-5.33
	TG	mmol/L	2.33	0.23	1.63-3.03
	TP	g/L	63.25	6.33	44.28-82.23
	UA	μmol/L	553.50	55.35	387.45-719.55
	Urea	mmol/L	21.80	2.18	15.26-28.34

Remark: The range printed in the assigned value table should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges.