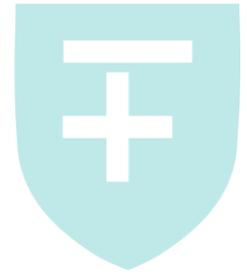




Human Assayed Control Level-1



Fortress Diagnostics Quality Control Inserts

Insert.fortressdiagnostics.com

REF	BXC0312A (10 x 5 ml) BXC0312C (5 x 5 ml)	GTIN	5060476971575	LOT	HSN092	EXP	06/2028
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Intended Use

This product is a human based lyophilised assayed serum for the control of accuracy. It is intended for in vitro diagnostic use in the quality control of diagnostic assays.

Description

The Human Assayed Serum Controls are supplied in 2 levels, level 1 and 2. Target values and ranges are supplied for the analytes listed.

Value Assignment

The quoted ranges are provided for guidance as a result of variation caused by test equipment, test reagents and laboratory technique. Hence, we recommend that each laboratory establishes its own ranges, based on individual laboratory requirements.

Each batch of assayed human serum is value assigned in a number of reference laboratories against international Reference Standards/ Methods. Together with

the values obtained from a large number of laboratories worldwide presented here after statistical analysis.

The ranges provided are based on mean \pm 2 S.D.

For technical support, please contact the technical team.

Stability & Limitations

This product must be stored refrigerated at +2°C to +8°C. Reconstituted serum open vial is stable for 8 hours at +15°C to +25°C, or 7 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C. (See Limitations). Unopened vial must be stored refrigerated at +2°C to +8°C and is stable to expiration date printed on individual vials.

For Total & Prostatic Acid Phosphatase, the material should be stabilised by adding 1 drop (25µl - 30µl) of 0.7M Acetic acid solution to 1ml of the serum exactly 30 minutes after reconstitution. Once stabilised the Total and Prostatic Acid Phosphatase is stable for 2 hours at +15°C to +25°C, 2 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C.

Alkaline Phosphatase levels in the reconstituted serum will rise over the stability period. It is recommended that the reconstituted serum is allowed to stand for 1 hour at +15°C to +25°C before measurement.

Alkaline Phosphatase is stable for 5 days at +2°C to +8°C, 8 hours at +15°C to +25°C and 28 days when frozen once at -18°C to -24°C.

Bilirubin in the serum is light sensitive and it is recommended that the serum is stored in the dark. Bilirubin, is stable for 4 days at +2°C to +8°C. Do not store at +15°C to +25°C. Do not freeze.

GLDH is stable for 2 days at 2-8°C.

Bicarbonate is stable for 8 hours after reconstitution in closed vial at +2°C to +8°C and stable for 1 hour in open vial.

NEFA is stable for 1 day at +2°C to +8°C.

Total PSA is stable for 2 days at +2°C to +8°C, or 28 days in aliquots frozen at -18°C to -24°C.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components.

Folate reconstituted stability is 1 day at 2-8°C.

To accurately measure Zinc contents in this control, we recommend that on reconstitution, the material is aliquoted into appropriate containers without rubber stoppers and stored at 2-8°C to ensure stable zinc levels during the stability period.

Different lot numbers of this control should not be interchanged, as the values assigned to the controls vary from lot to lot. The control should not be used as a calibration material.

HDL Cholesterol and LDL Cholesterol values quoted are for information purposes only.

For the measurement of HDL Cholesterol and LDL Cholesterol we recommend using lipid controls catalogue numbers, BXC0317A, BXC0330A and BXC0316A Each 3 x 1 ml.

Preparation for Use

Carefully reconstitute each vial of lyophilised serum with exactly 5ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.

Refrigerate any unused material. Mix thoroughly prior to reuse.



European Conformity

Temperature Limitation

Catalogue Number

Lot Number

In Vitro Diagnostics Medical Device

Expiry Date (MM/YYYY)

Global Trade Item Number

Fortress Diagnostics: Quality Control Inserts Portal

9A, The Technology Park, Antrim, United Kingdom, BT41 1QS | +44 (0) 28 9448 7676 | insert.fortressdiagnostics.com | info@fortressdiagnostics.com

Materials Provided

Human Assayed Control Level-1

10 x 5ml / 5 x 5ml

Materials Required But Not Provided

Volumetric Pipette

Precautions & Warnings

For in vitro diagnostic use only.

Do not pipette by mouth.

Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and

found to be negative. However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

Health and Safety Data (MSDS) Sheets are available on request.

METHOD

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Total Acid Phosphatase	Naphtyl Phosphate, Kinetic 37oC	U/L	16.1	10.63	-	21.57	2.74	5.47
Albumin	Bromocresol Green (BCG)	g/L	43.17	36.69	-	49.65	3.24	6.48
		g/dl	4.32	3.67	-	4.96	0.32	0.65
	Bromocresol Purple (BCP)	g/L	44.13	37.51	-	50.75	3.31	6.62
		g/dl	4.41	3.75	-	5.08	0.33	0.66
	Turbidimetric / Turbilatex	g/L	43.71	37.15	-	50.26	3.28	6.56
		g/dl	4.37	3.71	-	5.03	0.33	0.66
Alkaline Phosphatase	Diethanolamine buffer DEA 37°C	U/L	350.57	297.98	-	403.15	26.29	52.59
	Diethanolamine buffer DEA 30°C	U/L	273.07	244.00	-	302.15	14.54	29.07
	Diethanolamine buffer DEA 25°C	U/L	223.26	199.49	-	247.02	11.88	23.77
	AMP optimised to IFCC 37°C	U/L	248.81	211.48	-	286.13	18.66	37.32
	AMP optimised to IFCC 30°C	U/L	193.81	164.74	-	222.88	14.54	29.07
	AMP optimised to IFCC 25°C	U/L	158.45	134.68	-	182.22	11.88	23.77
	AMP non-optimised 37°C	U/L	251.42	213.71	-	289.14	18.86	37.71
	AMP non-optimised 30°C	U/L	195.85	166.78	-	224.92	14.54	29.07
	AMP non-optimised 25°C	U/L	160.12	136.35	-	183.88	11.88	23.77
	Colorimetric 37°C	U/L	238.33	202.58	-	274.08	17.87	35.75
	Colorimetric 30°C	U/L	185.65	156.57	-	214.72	14.54	29.07
	Colorimetric 25°C	U/L	151.78	128.01	-	175.55	11.88	23.77
ALT (GPT)	Colorimetric 37°C	U/L	43.68	34.94	-	52.42	4.37	8.74
	Colorimetric 30°C	U/L	31.96	25.57	-	38.35	3.20	6.39
	Colorimetric 25°C	U/L	24.50	19.60	-	29.40	2.45	4.90
	Tris buffer with P5P 37°C	U/L	44.75	35.80	-	53.70	4.47	8.95
	Tris buffer with P5P 30°C	U/L	33.03	26.42	-	39.63	3.30	6.61
	Tris buffer with P5P 25°C	U/L	25.57	20.46	-	30.68	2.56	5.11
	Tris buffer without P5P 37°C	U/L	41.55	33.24	-	49.86	4.16	8.31
	Tris buffer without P5P 30°C	U/L	30.90	24.72	-	37.08	3.09	6.18
Amylase (Pancreatic)	Tris buffer without P5P 25°C	U/L	23.44	18.75	-	28.13	2.34	4.69
	Immunoinhibition EPS SUBSTRATE 37oC	U/L	64.89	55.15	-	74.62	4.87	9.73
	Roche EPS Liquid Stable 37oC	U/L	63.79	54.22	-	73.35	4.78	9.57
Amylase (TOTAL)	Fortress Ethylidene pNPG7 Liquid Stable 37oC	U/L	72.58	61.70	-	83.47	5.44	10.89
	pNP Maltotriose substrate 37oC	U/L	117.31	99.71	-	134.91	8.80	17.60
	blocked pNPG7 37oC	U/L	126.86	107.83	-	145.89	9.51	19.03
	Fortress Ethylidene pNPG7 Lyophilised 37oC	U/L	125.00	106.25	-	143.75	9.38	18.75
	Fortress Ethylidene pNPG7 Liquid Stable 37oC	U/L	125.00	106.25	-	143.75	9.38	18.75
	BM/ROCHE Colourimetric pNPG7 37oC	U/L	114.58	97.39	-	131.77	8.59	17.19
	ROCHE Integra 2-chloro-pNPG7 37oC	U/L	114.58	97.39	-	131.77	8.59	17.19
	ROCHE 2-chloro-pNPG7 37oC	U/L	115.95	98.55	-	133.34	8.70	17.39
	ROCHE Liquid stable pNPG7 37oC	U/L	114.58	97.39	-	131.77	8.59	17.19
	Siemens 2-chloro-pNPG7 37oC	U/L	118.67	100.87	-	136.47	8.90	17.80
	Beckman Coulter - blocked pNPG7 37oC	U/L	118.67	100.87	-	136.47	8.90	17.80
	Beckman Synchron AMY7 37oC	U/L	120.04	102.03	-	138.04	9.00	18.01
	Abbott Architect Non-IFCC 37oC	U/L	117.31	99.71	-	134.91	8.80	17.60
	Abbott Architect IFCC 37oC	U/L	118.67	100.87	-	136.47	8.90	17.80
Beckman CNPG3 (Extinction Coeff) 37oC	U/L	105.03	89.28	-	120.79	7.88	15.75	
Apo-A1	Immunoturbidimetric	g/l	1.12	0.93	-	1.31	0.09	0.19
		mg/dl	111.73	92.74	-	130.72	9.50	18.99
Apo-B	Immunoturbidimetric	g/l	0.66	0.55	-	0.77	0.06	0.11
		mg/dl	65.17	54.09	-	76.25	5.54	11.08

AST (GOT)	Colorimetric 37°C	U/L	42.16	33.73	-	50.59	4.22	8.43
	Colorimetric 30°C	U/L	28.52	22.82	-	34.22	2.85	5.70
	Colorimetric 25°C	U/L	19.84	15.87	-	23.81	1.98	3.97
	Tris buffer without PSP 37°C	U/L	42.16	33.73	-	50.59	4.22	8.43
	Tris buffer without PSP 30°C	U/L	28.52	22.82	-	34.22	2.85	5.70
	Tris buffer without PSP 25°C	U/L	19.84	15.87	-	23.81	1.98	3.97
	Tris buffer with PSP NVKC 37°C	U/L	43.40	34.72	-	52.08	4.34	8.68
	Tris buffer with PSP NVKC 30°C	U/L	29.76	23.81	-	35.71	2.98	5.95
	Tris buffer with PSP NVKC 25°C	U/L	21.08	16.86	-	25.30	2.11	4.22
Bicarbonate	Colorimetric	mmol/L	15.07	12.05	-	18.08	1.51	3.01
	Enzymatic	mmol/L	15.67	12.54	-	18.80	1.57	3.13
Bile Acids	4th Generation Colorimetric	umol/L	22.80	18.24	-	27.36	2.28	4.56
	5th Generation Colorimetric	umol/L	24.85	19.88	-	29.82	2.48	4.97
Bilirubin, Direct	Diazo with Sulphanilic Acid	µmol/L	23.69	18.95	-	28.43	2.37	4.74
		mg/dl	1.38	1.10	-	1.66	0.14	0.28
	Diazo with Dichloroaniline (DCA)	µmol/L	23.69	18.95	-	28.43	2.37	4.74
		mg/dl	1.38	1.10	-	1.66	0.14	0.28
	Oxidation to Biliverdin/Vanadate	µmol/L	33.89	27.11	-	40.67	3.39	6.78
		mg/dl	1.30	1.04	-	1.56	0.13	0.26
	Modified Jendrassik	µmol/L	21.31	17.05	-	25.57	2.13	4.26
		mg/dl	1.25	1.00	-	1.50	0.13	0.25
Bilirubin, Total	Diazo with Dichloroaniline (DCA)	µmol/L	23.58	18.87	-	28.30	2.36	4.72
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Diazo with Sulphanilic Acid	µmol/L	25.05	20.04	-	30.06	2.51	5.01
		mg/dl	1.47	1.18	-	1.76	0.15	0.29
	Dichlorophenyl Diazonium (DPD)	µmol/L	22.85	18.28	-	27.42	2.28	4.57
		mg/dl	1.34	1.07	-	1.61	0.13	0.27
	Nitrobenzediazonium salt	µmol/L	21.46	17.17	-	25.75	2.15	4.29
		mg/dl	1.26	1.01	-	1.51	0.13	0.25
	Diazonium ion	µmol/L	22.28	17.82	-	26.73	2.23	4.46
		mg/dl	1.31	1.04	-	1.57	0.13	0.26
	Oxidation to Biliverdin/Vanadate	µmol/L	45.89	36.71	-	55.06	4.59	9.18
		mg/dl	1.53	1.22	-	1.83	0.15	0.31
Modified Jendrassik	µmol/L	28.81	23.04	-	34.57	2.88	5.76	
	mg/dl	1.69	1.35	-	2.03	0.17	0.34	
Calcium	Cresolphthalein complexone	mmol/L	2.21	1.99	-	2.43	0.11	0.22
		mg/dl	8.85	7.96	-	9.73	0.44	0.88
	Ion selective electrode	mmol/L	2.27	2.04	-	2.50	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	Arsenazo III	mmol/L	2.28	2.05	-	2.51	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	NM-BAPTA	mmol/L	2.30	2.07	-	2.53	0.11	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
Chloride	ISE direct	mmol/L	96.38	89.63	-	103.13	3.37	6.75
	ISE indirect	mmol/L	95.14	88.48	-	101.80	3.33	6.66
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/L	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
	Cholesterol Oxidase - IDMS	mmol/L	4.27	3.71	-	4.82	0.28	0.55
		mg/dl	164.33	142.97	-	185.69	10.68	21.36
	Cholesterol Dehydrogenase	mmol/L	4.27	3.71	-	4.82	0.28	0.55
		mg/dl	164.33	142.97	-	185.69	10.68	21.36

Cholinesterase	Butyrylthiocholine (Colourimetric) 37oC	U/L	7224.50	5779.60	-	8669.40	722.45	1444.90
CK-Nac	CK-NAC serum start (DGKC) 37°C	U/L	249.43	219.50	-	279.37	14.97	29.93
	CK-NAC serum start (DGKC) 30°C	U/L	155.56	136.89	-	174.23	9.33	18.67
	CK-NAC serum start (DGKC) 25°C	U/L	105.94	93.23	-	118.66	6.36	12.71
	CK-NAC substrate start (DGKC) 37°C	U/L	248.09	218.32	-	277.86	14.89	29.77
	CK-NAC substrate start (DGKC) 30°C	U/L	155.56	136.89	-	174.23	9.33	18.67
	CK-NAC substrate start (DGKC) 25°C	U/L	105.94	93.23	-	118.66	6.36	12.71
	CK-NAC (IFCC) 37°C	U/L	244.07	214.78	-	273.36	14.64	29.29
	CK-NAC (IFCC) 30°C	U/L	152.88	134.53	-	171.22	9.17	18.35
	CK-NAC (IFCC) 25°C	U/L	103.26	90.87	-	115.65	6.20	12.39
Copper	Atomic absorption	µmol/L	19.16	15.33	-	22.99	1.92	3.83
		µg/dl	122.25	97.80	-	146.70	12.23	24.45
	Colorimetric	µmol/L	18.52	14.82	-	22.22	1.85	3.70
		µg/dl	117.69	94.15	-	141.23	11.77	23.54
Cortisol	Roche Cobas e402/e801	nmol/L	546.80	410.10	-	683.50	68.35	136.70
		µg/dl	19.68	14.76	-	24.60	2.46	4.92
Creatinine	Alkaline picrate with deproteinization	µmol/L	121.46	97.17	-	145.75	12.15	24.29
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Alkaline picrate no deproteinization	µmol/L	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Enzymatic UV method	µmol/L	121.46	97.17	-	145.75	12.15	24.29
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Creatinine PAP method	µmol/L	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Jaffe rate blanked	µmol/L	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/L	121.46	97.17	-	145.75	12.15	24.29
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/L	117.41	93.93	-	140.89	11.74	23.48
		mg/dl	1.33	1.06	-	1.59	0.13	0.27
	IDMS traceable	µmol/L	116.40	93.12	-	139.68	11.64	23.28
		mg/dl	1.32	1.05	-	1.58	0.13	0.26
D3-Hydroxybutyrate	Tris Buffer pH 8.5	mmol/L	0.35	0.31	-	0.39	0.02	0.04
Folate	Roche Cobas e402/e801	nmol/l	18.92	14.19	-	23.65	2.36	4.73
		ng/ml	8.36	6.27	-	10.45	1.05	2.09
Free T3	Roche Cobas e402/e801	pg/ml	6.85	5.14	-	8.56	0.86	1.71
		ng/dl	0.68	0.51	-	0.86	0.09	0.17
		pmol/L	10.52	7.89	-	13.15	1.32	2.63

Free T4	Abbott Architect	pmol/l	14.80	11.10	-	18.51	1.85	3.70
		ng/dl	1.16	0.87	-	1.45	0.14	0.29
		pg/ml	11.58	8.69	-	14.48	1.45	2.90
	Siemens Centaur XP/XPT/Classic	pmol/l	16.20	12.15	-	20.25	2.02	4.05
		ng/dl	1.26	0.95	-	1.58	0.16	0.32
		pg/ml	12.63	9.47	-	15.78	1.58	3.16
	Siemens Immulite 2000/2500	pmol/l	18.11	13.58	-	22.64	2.26	4.53
		ng/dl	1.41	1.06	-	1.76	0.18	0.35
		pg/ml	14.11	10.58	-	17.63	1.76	3.53
	Siemens Immulite 1000	pmol/l	18.72	14.04	-	23.40	2.34	4.68
		ng/dl	1.46	1.10	-	1.83	0.18	0.37
		pg/ml	14.63	10.97	-	18.29	1.83	3.66
	Beckman Dxl800	pmol/l	15.15	11.36	-	18.94	1.89	3.79
		ng/dl	1.18	0.89	-	1.48	0.15	0.30
		pg/ml	11.84	8.88	-	14.80	1.48	2.96
	Beckman Access	pmol/l	16.02	12.02	-	20.03	2.00	4.01
		ng/dl	1.25	0.94	-	1.57	0.16	0.31
		pg/ml	12.54	9.40	-	15.67	1.57	3.13
	Tosoh Series	pmol/l	21.34	16.00	-	26.67	2.67	5.33
		ng/dl	1.66	1.25	-	2.08	0.21	0.42
		pg/ml	16.63	12.47	-	20.79	2.08	4.16
	Vitros ECI	pmol/l	29.70	22.27	-	37.12	3.71	7.42
		ng/dl	2.32	1.74	-	2.90	0.29	0.58
		pg/ml	23.16	17.37	-	28.96	2.90	5.79
	Roche Cobas 4000/E411	pmol/l	18.90	14.17	-	23.62	2.36	4.72
		ng/dl	1.47	1.10	-	1.84	0.18	0.37
		pg/ml	14.72	11.04	-	18.40	1.84	3.68
	Roche Cobas e601/602	pmol/l	18.46	13.85	-	23.08	2.31	4.62
		ng/dl	1.44	1.08	-	1.80	0.18	0.36
		pg/ml	14.37	10.78	-	17.96	1.80	3.59
	Biomerieux Vidas FT4N Kit	pmol/l	18.03	13.52	-	22.53	2.25	4.51
		ng/dl	1.40	1.05	-	1.75	0.18	0.35
		pg/ml	14.02	10.52	-	17.53	1.75	3.51
	Siemens Dimension Exl LOCI	pmol/l	17.42	13.06	-	21.77	2.18	4.35
		ng/dl	1.36	1.02	-	1.70	0.17	0.34
		pg/ml	13.58	10.19	-	16.98	1.70	3.40
	Siemens Centaur CP	pmol/l	16.63	12.47	-	20.79	2.08	4.16
		ng/dl	1.30	0.97	-	1.62	0.16	0.32
		pg/ml	12.98	9.73	-	16.22	1.62	3.24
	Fujirebio Lumipulse G Series	pmol/l	14.28	10.71	-	17.85	1.79	3.57
		ng/dl	1.11	0.84	-	1.39	0.14	0.28
		pg/ml	11.15	8.36	-	13.93	1.39	2.79
	Mindray CL 8000i/6000i/2000i/1200i/1000i	pmol/l	14.72	11.04	-	18.40	1.84	3.68
		ng/dl	1.15	0.86	-	1.44	0.14	0.29
		pg/ml	11.49	8.62	-	14.37	1.44	2.87
	Roche Cobas e402/e801	pmol/l	19.84	14.88	-	24.80	2.48	4.96
		ng/dl	1.54	1.16	-	1.93	0.19	0.39
		pg/mL	15.41	11.56	-	19.27	1.93	3.85
Gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/L	48.49	41.21	-	55.76	3.64	7.27
	Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/L	38.42	32.66	-	44.19	2.88	5.76
	Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/L	30.19	25.66	-	34.72	2.26	4.53
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	51.23	43.55	-	58.91	3.84	7.68
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	40.25	34.21	-	46.29	3.02	6.04
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	32.02	27.22	-	36.82	2.40	4.80
	Fortress Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/L	56.72	48.21	-	65.23	4.25	8.51
	Fortress Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/L	44.83	38.10	-	51.55	3.36	6.72
Fortress Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/L	34.76	29.55	-	39.98	2.61	5.21	
GLDH	Triethanolamine buffer 50 mmol 37°C	U/L	26.67	20.01	-	33.34	3.33	6.67
	Triethanolamine buffer 50 mmol 30°C	U/L	20.01	15.00	-	25.01	2.50	5.00
	Triethanolamine buffer 50 mmol 25°C	U/L	16.67	12.50	-	20.84	2.08	4.17
Glucose	Glucose dehydrogenase	mmol/L	6.47	5.50	-	7.44	0.49	0.97
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
	Hexokinase	mmol/L	6.31	5.36	-	7.25	0.47	0.95
		mg/dl	113.19	96.21	-	130.17	8.49	16.98
Glucose oxidase	mmol/L	6.48	5.51	-	7.45	0.49	0.97	

		GLUCOSE URINE						
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
α-HBDH	Oxobutyrate <10mmol/l 37°C	U/L	217.68	174.14	-	261.21	21.77	43.54
	Oxobutyrate <10mmol/l 30°C	U/L	164.51	131.61	-	197.41	16.45	32.90
	Oxobutyrate <10mmol/l 25°C	U/L	123.38	98.71	-	148.06	12.34	24.68

Iron	Colorimetric with ppt.(Ferrene)	µmol/L	15.96	13.09	-	18.84	1.44	2.87
		µg/dl	89.15	68.93	-	109.36	10.11	20.21
	Colorimetric without ppt.(Ferrozine)	µmol/L	20.11	16.49	-	23.73	1.81	3.62
µg/dl		112.29	92.08	-	132.51	10.11	20.21	
HDL Cholesterol (Direct)	Direct Clearance Method	mmol/L	1.26	1.07	-	1.45	0.09	0.19
		mg/dl	43.59	37.05	-	50.13	3.27	6.54
	Direct HDL Immunoseparation	mmol/L	1.13	0.96	-	1.30	0.08	0.17
		mg/dl	43.59	37.05	-	50.13	3.27	6.54
	Vitros dHDL PTA/MgCl2 direct precipitation	mmol/L	1.17	0.99	-	1.34	0.09	0.18
		mg/dl	45.12	38.35	-	51.89	3.38	6.77
	Direct HDL Roche 4th Generation	mmol/L	1.13	0.96	-	1.30	0.08	0.17
		mg/dl	43.59	37.05	-	50.13	3.27	6.54
HDL - Ultra	mmol/L	1.29	1.10	-	1.49	0.10	0.19	
	mg/dl	49.91	42.43	-	57.40	3.74	7.49	
IgA	Immunoturbidimetric	g/l	2.10	1.57	-	2.62	0.26	0.52
		mg/dl	209.95	157.46	-	262.43	26.24	52.49
IgG	Immunoturbidimetric	g/l	8.71	7.14	-	10.28	0.78	1.57
		mg/dl	870.79	714.05	-	1027.53	78.37	156.74
IgM	Immunoturbidimetric	g/l	0.74	0.59	-	0.88	0.07	0.15
		mg/dl	73.67	58.94	-	88.41	7.37	14.73
Lactate	Colorimetric Lactate Oxidase	mmol/L	1.57	1.28	-	1.85	0.14	0.28
		mg/dl	14.09	11.56	-	16.63	1.27	2.54
	Enzymatic Electrode	mmol/L	1.53	1.26	-	1.81	0.14	0.28
		mg/dl	13.78	11.30	-	16.26	1.24	2.48
LDH P-L LACTATE DEHYDROGENASE	P->L Scandinavian & Dutch 37°C	U/L	435.35	370.05	-	500.65	32.65	65.30
	P->L Scandinavian & Dutch 30°C	U/L	314.81	267.59	-	362.03	23.61	47.22
	P->L Scandinavian & Dutch 25°C	U/L	221.16	187.99	-	254.34	16.59	33.17
	P->L German methods 37°C	U/L	418.41	355.65	-	481.18	31.38	62.76
	P->L German methods 30°C	U/L	301.86	256.58	-	347.13	22.64	45.28
	P->L German methods 25°C	U/L	212.20	180.37	-	244.03	15.91	31.83
	P->L SFBC 37°C	U/L	432.36	367.51	-	497.22	32.43	64.85
	P->L SFBC 30°C	U/L	311.82	265.05	-	358.59	23.39	46.77
	P->L SFBC 25°C	U/L	219.17	186.29	-	252.04	16.44	32.88
	L->P 37°C	U/L	225.00	191.25	-	258.75	16.88	33.75
	L->P 30°C	U/L	162.46	138.09	-	186.83	12.18	24.37
	L->P 25°C	U/L	114.11	96.99	-	131.23	8.56	17.12

LDL Cholesterol Direct	Direct LDL Immunoseparation	mmol/L	2.13	1.81	-	2.45	0.16	0.32
		mg/dl	82.32	69.97	-	94.67	6.17	12.35
Lipase	Other Colorimetric 37°C	U/L	45.42	36.33	-	54.50	4.54	9.08
	Roche Colorimetric 37°C	U/L	42.85	34.28	-	51.42	4.29	8.57
	Fortress Colorimetric 37°C	U/L	45.45	36.36	-	54.54	4.55	9.09
Lithium	Ion Selective Electrode	mmol/L	0.94	0.83	-	1.06	0.06	0.11
		mg/dl	0.65	0.58	-	0.73	0.04	0.08
	Spectrophotometric	mmol/L	0.95	0.84	-	1.07	0.06	0.11
		mg/dl	0.66	0.58	-	0.74	0.04	0.08
Magnesium	Arsenazo III	mmol/L	0.94	0.82	-	1.05	0.06	0.11
		mg/dl	2.23	1.96	-	2.50	0.13	0.27
	Calmagite	mmol/L	0.79	0.69	-	0.88	0.05	0.09
		mg/dl	1.84	1.61	-	2.07	0.11	0.23
	Xylidyl Blue	mmol/L	0.82	0.72	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
	Methylthymol blue	mmol/L	0.80	0.71	-	0.90	0.05	0.10
		mg/dl	1.91	1.67	-	2.14	0.12	0.23
	Chlorphosphonazo III	mmol/L	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	2.02	1.78	-	2.26	0.12	0.24
	Enzymatic	mmol/L	0.81	0.71	-	0.91	0.05	0.10
		mg/dl	1.95	1.71	-	2.18	0.12	0.24
NEFA	Colorimetric	mmol/l	1.31	1.05	-	1.57	0.13	0.26
Osmolality	Calculated	mOsm/k	313.23	250.59	-	375.88	62.65	125.29
	Freezing point depression	mOsm/k	319.69	255.75	-	383.63	63.94	127.88
Phosphate Inorganic	Phosphomolybdate enzymatic	mmol/L	1.30	1.10	-	1.49	0.10	0.19
		mg/dl	4.02	3.42	-	4.63	0.30	0.60
	Phosphomolybdate UV	mmol/L	1.31	1.11	-	1.50	0.10	0.20
		mg/dl	4.05	3.44	-	4.66	0.30	0.61
Potassium	ISE method - direct	mmol/L	4.19	3.90	-	4.48	0.15	0.29
	ISE method - indirect	mmol/L	4.10	3.81	-	4.39	0.14	0.29
	Enzymatic	mmol/L	4.26	3.96	-	4.55	0.15	0.30
Protein, Total	Biuret reaction end point	g/L	61.24	48.99	-	73.49	6.12	12.25
		g/dl	6.12	4.90	-	7.35	0.61	1.22
	Biuret reaction kinetic	g/L	60.82	48.65	-	72.98	6.08	12.16
		g/dl	6.04	4.82	-	7.26	0.61	1.22
PSA Total	bioMerieux VIDAS TPSA	ng/ml	10.86	8.14	-	13.57	1.36	2.71
	Abbott Architect	ng/ml	9.03	6.77	-	11.29	1.13	2.26
	Cobas E411	ng/ml	12.14	9.11	-	15.18	1.52	3.04
	Roche Cobas 6000/8000	ng/ml	11.91	8.93	-	14.89	1.49	2.98
	Siemens Atellica IM	ng/ml	10.53	7.90	-	13.16	1.32	2.63

Sodium	ISE method - direct	mmol/L	139.58	132.60	-	146.56	3.49	6.98
	ISE method - indirect	mmol/L	141.59	134.51	-	148.67	3.54	7.08
	Enzymatic	mmol/L	149.99	142.49	-	157.49	3.75	7.50
Thyroid Stimulating Hormone (TSH)	Abbott Architect	mIU/L	1.51	1.13	-	1.89	0.19	0.38
	bioMerieux VIDAS TSH	mIU/L	2.16	1.62	-	2.70	0.27	0.54
	Siemens Immulite 2000/2500	mIU/L	1.92	1.44	-	2.40	0.24	0.48
	Siemens Immulite 1000	mIU/L	2.02	1.51	-	2.52	0.25	0.50
	Roche Elecsys	mIU/L	2.03	1.52	-	2.54	0.25	0.51
	Beckman Access Fast TSH	mIU/L	1.88	1.41	-	2.35	0.24	0.47
	Beckman Access hyperTSH 3rd Generation	mIU/L	1.83	1.37	-	2.29	0.23	0.46
	Tosoh Series	mIU/L	1.95	1.46	-	2.44	0.24	0.49
	Vitros Eci	mIU/L	1.83	1.37	-	2.29	0.23	0.46
	Roche Cobas 4000/E411	mIU/L	2.16	1.62	-	2.70	0.27	0.54
	Roche Cobas e601/602	mIU/L	2.15	1.61	-	2.69	0.27	0.54
	Siemens Dimension Exl LOCI	mIU/L	1.76	1.32	-	2.20	0.22	0.44
	Siemens Centaur CP	mIU/L	1.78	1.33	-	2.22	0.22	0.44
	Beckman Dxl 600/800 Access (3rd IS)	mIU/L	1.80	1.35	-	2.25	0.23	0.45
	Mindray CL 8000i/6000i/2000i/1200i/1000i	mIU/L	2.44	1.83	-	3.05	0.31	0.61
	Roche Cobas e402/e801	mIU/L	2.08	1.56	-	2.60	0.26	0.52
Siemens Atellica IM	mIU/L	1.91	1.43	-	2.39	0.24	0.48	
TIBC	Removal of excess free iron	µmol/L	37.93	30.35	-	45.52	3.79	7.59
		µg/dl	211.79	169.43	-	254.14	21.18	42.36
	FE+UIBC(saturation with iron)	µmol/L	40.00	32.00	-	48.00	4.00	8.00
		µg/dl	224.02	179.22	-	268.83	22.40	44.80
	Direct Colorimetric	µmol/L	41.42	33.13	-	49.70	4.14	8.28
		µg/dl	231.55	185.24	-	277.86	23.16	46.31
	Calculated from Transferrin	µmol/L	40.00	32.00	-	48.00	4.00	8.00
		µg/dl	224.02	179.22	-	268.83	22.40	44.80
	Fortress Direct	µmol/L	47.44	37.95	-	56.93	4.74	9.49
		µg/dl	265.44	212.35	-	318.53	26.54	53.09

Total T3	Siemens Centaur XP/XPT/Classic	nmol/l	3.39	2.55	-	4.24	0.42	0.85
		ng/ml	2.21	1.65	-	2.76	0.28	0.55
		ng/dl	220.53	165.40	-	275.66	27.57	55.13
	Roche Cobas 4000/E411	nmol/l	3.55	2.67	-	4.44	0.44	0.89
		ng/ml	2.31	1.73	-	2.88	0.29	0.58
		ng/dl	230.68	173.01	-	288.36	28.84	57.67
	Abbott Architect	nmol/l	3.59	2.69	-	4.49	0.45	0.90
		ng/ml	2.29	1.72	-	2.86	0.29	0.57
		ng/dl	229.06	171.80	-	286.33	28.63	57.27
	Fortress ELISA / CLIA	nmol/l	3.42	2.57	-	4.28	0.43	0.86
		ng/ml	2.23	1.68	-	2.79	0.28	0.56
		ng/dl	223.43	167.57	-	279.29	27.93	55.86
Total T4	Siemens Centaur XP/XPT/Classic	nmol/l	101.97	76.47	-	127.46	12.75	25.49
		ng/ml	7.95	5.96	-	9.94	0.99	1.99
		ng/dl	79.52	59.64	-	99.40	9.94	19.88
	Roche Cobas 4000/E411	nmol/l	103.02	77.26	-	128.77	12.88	25.75
		ng/ml	8.04	6.03	-	10.04	1.00	2.01
		ng/dl	80.36	60.27	-	100.45	10.04	20.09
	Abbott Architect	nmol/l	96.72	72.54	-	120.90	12.09	24.18
		ng/ml	7.54	5.66	-	9.43	0.94	1.89
		ng/dl	75.43	56.57	-	94.28	9.43	18.86
	Fortress ELISA / CLIA	nmol/l	97.98	73.49	-	122.48	12.25	24.50
		ng/ml	7.65	5.74	-	9.56	0.96	1.91
		ng/dl	76.47	57.36	-	95.59	9.56	19.12
Transferrin	Immunoturbidimetric	g/l	2.10	1.68	-	2.52	0.21	0.42
		mg/dl	210.19	168.15	-	252.22	21.02	42.04
Triglycerides	Lipase/GPO-PAP no correction	mmol/L	1.16	0.99	-	1.33	0.09	0.17
		mg/dl	102.62	87.23	-	118.02	7.70	15.39
	Lipase/GPO-PAP 0.11mmol/l correction	mmol/L	1.17	0.99	-	1.34	0.09	0.18
		mg/dl	103.47	87.95	-	118.99	7.76	15.52
	L/G Kinase EP. no correction	mmol/L	1.17	0.99	-	1.34	0.09	0.18
		mg/dl	103.47	87.95	-	118.99	7.76	15.52
	L/G kinase EP. 0.11 mmol/l correction	mmol/L	1.17	0.99	-	1.34	0.09	0.18
		mg/dl	103.47	87.95	-	118.99	7.76	15.52
Lipase/Glycerol Dehydrogenase	mmol/L	1.16	0.99	-	1.33	0.09	0.17	
	mg/dl	102.62	87.23	-	118.02	7.70	15.39	
Urea	Urease end point	mmol/L	6.84	5.81	-	7.86	0.51	1.03
		mg/dl	41.06	34.94	-	47.17	3.06	6.12
	Urease kinetic	mmol/L	6.79	5.77	-	7.81	0.51	1.02
		mg/dl	40.77	34.66	-	46.89	3.06	6.12
	BUN	mmol/L	6.79	5.77	-	7.81	0.51	1.02
		mg/dl	19.01	16.16	-	21.86	1.43	2.85

Calcium	Arsenazo III	mmol/l	2.27	2.05	-	2.50	0.11	0.23
		mg/dl	9.15	8.23	-	10.06	0.46	0.91
Chloride	ISE indirect	mmol/l	95.13	88.47	-	101.79	3.33	6.66
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.25	3.70	-	4.81	0.28	0.55
		mg/dl	164.45	143.07	-	185.82	10.69	21.38
Cholinesterase	Colorimetric Butyrylthiocholine 37°C	U/l	7223.75	5779.00	-	8668.50	722.37	1444.75
CK Total	CK-NAC (IFCC) 37°C	U/l	244.04	214.76	-	273.33	14.64	29.29
	Abbott CK-NAC (IFCC) 37°C	U/l	243.49	214.27	-	272.71	14.61	29.22
Copper	Colorimetric	µmol/l	18.41	14.73	-	22.09	1.84	3.68
		µg/dl	117.79	94.23	-	141.35	11.78	23.56
Creatinine	Alkaline picrate no deproteinization	µmol/l	121.45	97.16	-	145.74	12.14	24.29
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Enzymatic UV method	µmol/l	121.09	96.87	-	145.31	12.11	24.22
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	51.11	43.44	-	58.77	3.83	7.67
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	50.55	42.96	-	58.13	3.79	7.58
Glucose	Hexokinase	mmol/l	6.44	5.48	-	7.41	0.48	0.97
		mg/dl	116.62	99.13	-	134.12	8.75	17.49
	Glucose oxidase	mmol/l	6.35	5.40	-	7.30	0.48	0.95
		mg/dl	116.62	99.13	-	134.12	8.75	17.49
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	20.05	16.44	-	23.66	1.80	3.61
		µg/dl	110.79	90.85	-	130.74	9.97	19.94
	Colorimetric without ppt.(Ferrozine)	µmol/l	20.05	16.44	-	23.66	1.80	3.61
		µg/dl	111.68	91.58	-	131.79	10.05	20.10
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.56	1.28	-	1.84	0.14	0.28
		mg/dl	14.11	11.57	-	16.65	1.27	2.54
Lipase	Other Colorimetric 37°C	U/l	45.17	36.14	-	54.21	4.52	9.03
Lithium	Spectrophotometric	mmol/l	0.93	0.82	-	1.04	0.06	0.11
		mg/dl	0.66	0.58	-	0.73	0.04	0.08
Magnesium	Arsenazo III	mmol/l	0.81	0.71	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
	Enzymatic	mmol/l	0.79	0.70	-	0.88	0.05	0.09
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
Phosphate Inorganic	Phosphomolybdate enzymatic	mmol/l	1.28	1.09	-	1.47	0.10	0.19
		mg/dl	4.05	3.44	-	4.66	0.30	0.61
	Phosphomolybdate UV	mmol/l	1.27	1.08	-	1.46	0.09	0.19
		mg/dl	4.05	3.44	-	4.66	0.30	0.61
Potassium	ISE method - indirect	mmol/l	4.23	3.94	-	4.53	0.15	0.30
Protein Total	Biuret reaction end point	g/l	59.29	47.43	-	71.15	5.93	11.86
		g/dl	5.93	4.70	-	7.15	0.61	1.22
	Biuret reaction kinetic	g/l	60.91	48.73	-	73.09	6.09	12.18
		g/dl	6.09	4.87	-	7.32	0.61	1.22
Sodium	ISE method - indirect	mmol/l	146.94	139.59	-	154.28	3.67	7.35
		µmol/l	41.19	32.95	-	49.43	4.12	8.24
TIBC	FE+UIBC(saturation with iron)	µg/dl	231.93	185.54	-	278.31	23.19	46.39
		µmol/l	40.10	32.08	-	48.11	4.01	8.02
	Calculated from Transferrin	µg/dl	231.93	185.54	-	278.31	23.19	46.39
		µmol/l	40.10	32.08	-	48.11	4.01	8.02
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.12	0.95	-	1.29	0.08	0.17
		mg/dl	102.62	87.23	-	118.01	7.70	15.39
	L/G Kinase EP. no correction	mmol/l	1.15	0.98	-	1.33	0.09	0.17
		mg/dl	102.62	87.23	-	118.01	7.70	15.39
	Lipase/Glycerol Dehydrogenase	mmol/l	1.14	0.97	-	1.31	0.09	0.17
		mg/dl	102.62	87.23	-	118.01	7.70	15.39
Urea	Urease kinetic	mmol/l	6.77	5.76	-	7.79	0.51	1.02
		mg/dl	40.73	34.62	-	46.84	3.06	6.11
	BUN	mmol/l	6.65	5.65	-	7.65	0.50	1.00
		mg/dl	19.04	16.19	-	21.90	1.43	2.86

Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.37	0.32	-	0.41	0.02	0.05
		mg/dl	6.13	5.34	-	6.93	0.40	0.80
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.37	0.32	-	0.41	0.02	0.05
		mg/dl	5.97	5.19	-	6.75	0.39	0.78
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.37	0.32	-	0.41	0.02	0.05
		mg/dl	6.04	5.26	-	6.83	0.39	0.79
Zinc	Colorimetric without deprot.	µmol/l	26.99	21.59	-	32.39	2.70	5.40
		µg/dl	177.24	141.79	-	212.69	17.72	35.45

ABBOTT ALINITY / ARCHITECT C / CI SYSTEMS

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	43.17	36.69	-	49.65	3.24	6.48
		g/dl	4.32	3.67	-	4.96	0.32	0.65
	Bromocresol Purple	g/l	43.49	36.97	-	50.02	3.26	6.52
		g/dl	4.35	3.70	-	5.00	0.33	0.65
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/l	244.88	208.15	-	281.61	18.37	36.73
	AMP non-optimised 37°C	U/l	240.95	204.81	-	277.09	18.07	36.14
ALT (GPT)	Tris buffer without P5P 37°C	U/l	41.55	33.24	-	49.86	4.16	8.31
Amylase Pancreatic	Immunoinhibition EPS substrate 37°C	U/l	64.89	55.15	-	74.62	4.87	9.73
Amylase Total	Abbott Architect Non-IFCC Cal. 37°C	U/l	118.67	100.87	-	136.47	8.90	17.80
	Abbott Architect IFCC Cal. 37°C	U/l	117.31	99.71	-	134.91	8.80	17.60
AST (GOT)	Tris buffer without P5P 37°C	U/l	42.16	33.73	-	50.59	4.22	8.43
Bicarbonate	Enzymatic	mmol/l	13.62	10.90	-	16.35	1.36	2.72
Bile Acids	Enzymatic Colorimetric	µmol/l	26.89	21.51	-	32.27	2.69	5.38
Bilirubin Direct	Diazo with Sulphanilic Acid	µmol/l	22.68	18.14	-	27.22	2.27	4.54
		mg/dl	1.32	1.06	-	1.59	0.13	0.26
	Diazo with Dichloroaniline (DCA)	µmol/l	22.57	18.05	-	27.08	2.26	4.51
		mg/dl	1.32	1.06	-	1.59	0.13	0.26
Bilirubin Total	Diazo with Dichloroaniline (DCA)	µmol/l	25.92	20.73	-	31.10	2.59	5.18
		mg/dl	1.52	1.21	-	1.82	0.15	0.30
	Diazo with Sulphanilic Acid	µmol/l	26.46	21.17	-	31.75	2.65	5.29
		mg/dl	1.54	1.24	-	1.85	0.15	0.31
	Diazonium ion	µmol/l	25.92	20.73	-	31.10	2.59	5.18
		mg/dl	1.52	1.21	-	1.82	0.15	0.30
Calcium	Arsenazo III	mmol/l	2.22	2.00	-	2.44	0.11	0.22
		mg/dl	8.88	8.00	-	9.77	0.44	0.89
Chloride	ISE indirect	mmol/l	97.33	90.52	-	104.15	3.41	6.81
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.22	3.67	-	4.77	0.27	0.55
		mg/dl	163.24	142.02	-	184.46	10.61	21.22
Cholinesterase	Colorimetric Butyrylthiocholine 37°C	U/l	8516.53	6813.22	-	10219.83	851.65	1703.31
CK Total	CK-NAC (IFCC) 37°C	U/l	248.09	218.32	-	277.86	14.89	29.77
	Abbott CK-NAC (IFCC) 37°C	U/l	248.09	218.32	-	277.86	14.89	29.77
Copper	Colorimetric	µmol/l	14.96	11.97	-	17.95	1.50	2.99
		µg/dl	94.88	75.90	-	113.86	9.49	18.98
Creatinine	Alkaline picrate no deproteinization	µmol/l	122.47	97.98	-	146.97	12.25	24.49
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
	Enzymatic UV method	µmol/l	119.44	95.55	-	143.32	11.94	23.89
		mg/dl	1.35	1.08	-	1.62	0.13	0.27
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	50.32	42.77	-	57.86	3.77	7.55
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	50.32	42.77	-	57.86	3.77	7.55
Glucose	Hexokinase	mmol/l	6.20	5.27	-	7.13	0.46	0.93
		mg/dl	112.12	95.30	-	128.93	8.41	16.82
	Glucose oxidase	mmol/l	6.24	5.31	-	7.18	0.47	0.94
		mg/dl	112.12	95.30	-	128.93	8.41	16.82
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	21.52	17.65	-	25.40	1.94	3.87
		µg/dl	120.61	98.90	-	142.32	10.86	21.71
	Colorimetric without ppt.(Ferrozine)	µmol/l	21.21	17.39	-	25.03	1.91	3.82
		µg/dl	118.53	97.20	-	139.87	10.67	21.34
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.63	1.34	-	1.92	0.15	0.29
		mg/dl	14.72	12.07	-	17.37	1.32	2.65

Lipase	Other Colorimetric 37°C	U/l	44.12	35.30	-	52.95	4.41	8.82
		mmol/l	0.93	0.82	-	1.05	0.06	0.11
Lithium	Spectrophotometric	mg/dl	0.65	0.57	-	0.73	0.04	0.08
		mmol/l	0.79	0.69	-	0.88	0.05	0.09
Magnesium	Arsenazo III	mg/dl	1.91	1.68	-	2.14	0.11	0.23
		mmol/l	0.79	0.70	-	0.89	0.05	0.10
	Enzymatic	mg/dl	1.93	1.70	-	2.16	0.12	0.23
		mmol/l	1.28	1.09	-	1.47	0.10	0.19
Phosphate Inorganic	Phosphomolybdate enzymatic	mg/dl	3.97	3.37	-	4.56	0.30	0.60
		mmol/l	1.28	1.09	-	1.47	0.10	0.19
	Phosphomolybdate UV	mg/dl	3.97	3.37	-	4.56	0.30	0.60
		mmol/l	4.05	3.76	-	4.33	0.14	0.28
Potassium	ISE method - indirect	mmol/l	4.05	3.76	-	4.33	0.14	0.28
Protein Total	Biuret reaction end point	g/l	62.30	49.84	-	74.76	6.23	12.46
		g/dl	6.23	4.98	-	7.48	0.62	1.25
	Biuret reaction kinetic	g/l	63.26	50.61	-	75.91	6.33	12.65
		g/dl	6.33	5.06	-	7.59	0.63	1.27
Sodium	ISE method - indirect	mmol/l	148.92	141.48	-	156.37	3.72	7.45
TIBC	FE+UIBC(saturation with iron)	µmol/l	38.31	30.65	-	45.97	3.83	7.66
		µg/dl	214.61	171.69	-	257.53	21.46	42.92
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.11	0.94	-	1.27	0.08	0.17
		mg/dl	97.88	83.20	-	112.57	7.34	14.68
	L/G Kinase EP. no correction	mmol/l	1.12	0.95	-	1.28	0.08	0.17
		mg/dl	98.83	84.01	-	113.66	7.41	14.82
Urea	Lipase/Glycerol Dehydrogenase	mmol/l	1.09	0.92	-	1.25	0.08	0.16
		mg/dl	96.09	81.68	-	110.51	7.21	14.41
	Urease kinetic	mmol/l	6.90	5.87	-	7.94	0.52	1.04
		mg/dl	41.52	35.29	-	47.75	3.11	6.23
Uric Acid (Urate)	BUN	mmol/l	6.90	5.87	-	7.94	0.52	1.04
		mg/dl	19.36	16.45	-	22.26	1.45	2.90
	Uricase peroxidase with ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.04	5.25	-	6.82	0.39	0.78
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.06	5.27	-	6.85	0.39	0.79
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.17	5.36	-	6.97	0.40	0.80

BECKMAN COULTER AU SERIES®

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	42.31	35.97	-	48.66	3.17	6.35
		g/dl	4.23	3.60	-	4.87	0.32	0.63
	Bromocresol Purple	g/l	42.31	35.97	-	48.66	3.17	6.35
		g/dl	4.23	3.60	-	4.87	0.32	0.63
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/l	268.45	228.18	-	308.71	20.13	40.27
ALT (GPT)	Tris buffer without P5P 37°C	U/l	45.81	36.65	-	54.97	4.58	9.16
	Beckman Mod. IFCC Ref. without P5P 37°C	U/l	45.81	36.65	-	54.97	4.58	9.16
	Beckman (Extinction Coefficient) 37°C	U/l	44.75	35.80	-	53.70	4.47	8.95
Amylase Total	Beckman Synchron CX4/CX5/CX7 37°C	U/l	111.85	95.08	-	128.63	8.39	16.78
	Beckman Coulter - blocked pNPG7 37°C	U/l	117.31	99.71	-	134.91	8.80	17.60
	Beckman CNPG3 (Extinction Coeff) 37°C	U/l	105.03	89.28	-	120.79	7.88	15.75
AST (GOT)	Beckman Mod. IFCC Ref. without P5P 37°C	U/l	44.64	35.71	-	53.57	4.46	8.93
	Beckman (Extinction Coefficient) 37°C	U/l	43.40	34.72	-	52.08	4.34	8.68
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	23.59	18.87	-	28.31	2.36	4.72
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
Bilirubin Total	Dichlorophenyl Diazonium (DPD)	µmol/l	27.18	21.74	-	32.62	2.72	5.44
		mg/dl	1.59	1.27	-	1.91	0.16	0.32
	DPD (Beckman AU)	µmol/l	28.17	22.54	-	33.81	2.82	5.63
		mg/dl	1.65	1.32	-	1.98	0.17	0.33
Calcium	Cresolphthalein complexone	mmol/l	2.29	2.06	-	2.52	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	Arsenazo III	mmol/l	2.31	2.08	-	2.54	0.12	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
Chloride	ISE indirect	mmol/l	95.43	88.75	-	102.11	3.34	6.68
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50

	Cholesterol Oxidase - IDMS	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
	Cholesterol Dehydrogenase	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50

Cholinesterase	Colorimetric Butyrylthiocholine 37°C	U/l	6984.09	5587.28	-	8380.91	698.41	1396.82
CK Total	Monothioglycerol 37°C	U/l	261.50	230.12	-	292.88	15.69	31.38
	CK-NAC (IFCC) 37°C	U/l	258.82	227.76	-	289.88	15.53	31.06
	Beckman CK-NAC (Extinction Coeff) 37°C	U/l	258.82	227.76	-	289.88	15.53	31.06
Creatinine	Alkaline picrate no deproteinization	µmol/l	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Enzymatic UV method	µmol/l	122.47	97.98	-	146.97	12.25	24.49
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
	Jaffe rate blanked	µmol/l	118.42	94.74	-	142.11	11.84	23.68
		mg/dl	1.34	1.07	-	1.60	0.13	0.27
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/l	111.34	89.07	-	133.61	11.13	22.27
		mg/dl	1.26	1.00	-	1.51	0.13	0.25
	IDMS traceable	µmol/l	113.36	90.69	-	136.04	11.34	22.67
mg/dl		1.29	1.03	-	1.54	0.13	0.26	
D-3-Hydroxybutyrate	Tris buffer 100mmol pH 8.5	mmol/l	0.36	0.32	-	0.40	0.02	0.04
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	48.49	41.21	-	55.76	3.64	7.27
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	52.14	44.32	-	59.97	3.91	7.82
	Beckman Szasz (Extinction Coeff) 37°C	U/l	51.23	43.55	-	58.91	3.84	7.68
Glucose	Hexokinase	mmol/l	6.26	5.32	-	7.20	0.47	0.94
		mg/dl	113.19	96.21	-	130.17	8.49	16.98
	Glucose oxidase	mmol/l	6.48	5.51	-	7.45	0.49	0.97
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	20.80	17.05	-	24.54	1.87	3.74
		µg/dl	116.45	95.49	-	137.41	10.48	20.96
	Colorimetric without ppt.(Ferrozine)	µmol/l	20.28	16.63	-	23.92	1.82	3.65
		µg/dl	113.33	92.93	-	133.73	10.20	20.40
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.53	1.26	-	1.81	0.14	0.28
		mg/dl	13.78	11.30	-	16.26	1.24	2.48
LD (LDH)	P->L Scandinavian & Dutch 37°C	U/l	443.32	376.82	-	509.82	33.25	66.50
Lipase	Other Colorimetric 37°C	U/l	41.53	33.22	-	49.83	4.15	8.31
Lithium	Spectrophotometric	mmol/l	0.94	0.83	-	1.06	0.06	0.11
		mg/dl	0.65	0.58	-	0.73	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.82	0.72	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.29	1.10	-	1.48	0.10	0.19
		mg/dl	3.99	3.40	-	4.59	0.30	0.60
Potassium	ISE method - indirect	mmol/l	4.07	3.78	-	4.35	0.14	0.28
Protein Total	Biuret reaction end point	g/l	60.39	48.31	-	72.47	6.04	12.08
		g/dl	6.04	4.83	-	7.25	0.60	1.21
Sodium	ISE method - indirect	mmol/l	149.99	142.49	-	157.49	3.75	7.50
TIBC	FE+UIBC(saturation with iron)	µmol/l	43.20	34.56	-	51.85	4.32	8.64
		µg/dl	241.91	193.53	-	290.29	24.19	48.38
	Direct Colorimetric	µmol/l	43.30	34.64	-	51.96	4.33	8.66
		µg/dl	241.91	193.53	-	290.29	24.19	48.38
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.15	0.98	-	1.32	0.09	0.17
		mg/dl	101.68	86.42	-	116.93	7.63	15.25
	L/G Kinase EP. no correction	mmol/l	1.15	0.98	-	1.32	0.09	0.17
		mg/dl	101.68	86.42	-	116.93	7.63	15.25
Urea	Urease end point	mmol/l	6.86	5.83	-	7.89	0.51	1.03
		mg/dl	41.24	35.05	-	47.42	3.09	6.19
	Urease kinetic	mmol/l	6.85	5.83	-	7.88	0.51	1.03
		mg/dl	41.24	35.05	-	47.42	3.09	6.19
	BUN	mmol/l	6.85	5.83	-	7.88	0.51	1.03
		mg/dl	19.26	16.37	-	22.15	1.44	2.89

Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.16	5.36	-	6.96	0.40	0.80
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.16	5.36	-	6.96	0.40	0.80
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.19	5.38	-	6.99	0.40	0.80
Zinc	Colorimetric without deprot.	µmol/l	27.14	21.71	-	32.56	2.71	5.43
		µg/dl	177.27	141.82	-	212.72	17.73	35.45
BIOTECNICA / WIENER BT AND CB SERIES			LOT NO.	HSN092	EXP.	2028/06		
ANALYTE	METHOD	UNITS	TARGET	RANGE		1SD	2SD	
Albumin	Bromocresol Green	g/l	43.06	36.60	-	49.52	3.23	6.46
		g/dl	4.31	3.66	-	4.95	0.32	0.65
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	29.26	23.41	-	35.11	2.93	5.85
		mg/dl	1.72	1.37	-	2.06	0.17	0.34
Calcium	Arsenazo III	mmol/l	2.23	2.01	-	2.46	0.11	0.22
		mg/dl	8.96	8.06	-	9.85	0.45	0.90
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.21	3.66	-	4.76	0.27	0.55
		mg/dl	162.15	141.07	-	183.23	10.54	21.08
Glucose	Glucose oxidase	mmol/l	6.38	5.42	-	7.34	0.48	0.96
		mg/dl	115.35	98.05	-	132.65	8.65	17.30
Magnesium	Xylidyl Blue	mmol/l	0.79	0.69	-	0.88	0.05	0.09
		mg/dl	1.91	1.68	-	2.14	0.11	0.23
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.40	1.19	-	1.61	0.10	0.21
		mg/dl	4.34	3.69	-	4.99	0.33	0.65
Protein Total	Biuret reaction end point	g/l	64.00	51.20	-	76.80	6.40	12.80
		g/dl	6.40	5.12	-	7.68	0.64	1.28
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.14	0.97	-	1.31	0.09	0.17
		mg/dl	100.73	85.62	-	115.84	7.55	15.11
Urea	Urease kinetic	mmol/l	6.95	5.91	-	7.99	0.52	1.04
		mg/dl	41.80	35.53	-	48.07	3.14	6.27
	BUN	mmol/l	6.95	5.91	-	7.99	0.52	1.04
		mg/dl	19.54	16.61	-	22.48	1.47	2.93
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.37	0.33	-	0.42	0.02	0.05
		mg/dl	6.21	5.40	-	7.02	0.40	0.81

COBAS INTEGRA®

LOT NO.

EXP.

ANALYTE	METHOD	UNITS	TARGET	RANGE		1SD	2SD	
Albumin	Bromocresol Green	g/l	45.31	38.52	-	52.11	3.40	6.80
		g/dl	4.53	3.85	-	5.21	0.34	0.68
	Turbidimetric Assays	g/l	44.03	37.42	-	50.63	3.30	6.60
		g/dl	4.40	3.74	-	5.06	0.33	0.66
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/l	235.71	200.35	-	271.07	17.68	35.36
	Roche Integra AMP buffer 30°C	U/l	183.33	155.83	-	210.83	13.75	27.50
	Roche Integra AMP buffer 25°C	U/l	150.59	128.00	-	173.18	11.29	22.59
ALT (GPT)	Tris buffer without PSP 37°C	U/l	38.35	30.68	-	46.02	3.84	7.67
	Tris buffer without PSP 30°C	U/l	28.77	23.01	-	34.52	2.88	5.75
	Tris buffer without PSP 25°C	U/l	21.31	17.05	-	25.57	2.13	4.26
Amylase Total	BM/Roche Colorimetric pNPG7 37°C	U/l	115.95	98.55	-	133.34	8.70	17.39
	Roche Integra 2-chloro-pNPG7 37°C	U/l	117.31	99.71	-	134.91	8.80	17.60
	Roche liquid stable pNPG7 37°C	U/l	117.31	99.71	-	134.91	8.80	17.60
AST (GOT)	Tris buffer without PSP 37°C	U/l	37.20	29.76	-	44.64	3.72	7.44
	Tris buffer without PSP 30°C	U/l	24.80	19.84	-	29.76	2.48	4.96
	Tris buffer without PSP 25°C	U/l	17.36	13.89	-	20.83	1.74	3.47
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	23.71	18.96	-	28.45	2.37	4.74
		mg/dl	1.39	1.11	-	1.67	0.14	0.28
	Diazo with Sulphanilic Acid	µmol/l	22.68	18.14	-	27.22	2.27	4.54
		mg/dl	1.32	1.06	-	1.59	0.13	0.26
	Roche DPD JG standardised	µmol/l	23.59	18.87	-	28.31	2.36	4.72
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Roche DPD Dumas standardised	µmol/l	22.79	18.23	-	27.35	2.28	4.56
		mg/dl	1.33	1.07	-	1.60	0.13	0.27

Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	24.92	19.94	-	29.91	2.49	4.98
		mg/dl	1.45	1.16	-	1.74	0.15	0.29
	Dichlorophenyl Diazonium (DPD)	µmol/l	24.83	19.87	-	29.80	2.48	4.97
		mg/dl	1.45	1.16	-	1.74	0.15	0.29
	Diazonium ion	µmol/l	24.92	19.94	-	29.91	2.49	4.98
		mg/dl	1.45	1.16	-	1.74	0.15	0.29
Calcium	Cresolphthalein complexone	mmol/l	2.29	2.06	-	2.52	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	NM-BAPTA	mmol/l	2.28	2.05	-	2.51	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
Chloride	ISE indirect	mmol/l	96.38	89.63	-	103.13	3.37	6.75
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.21	3.66	-	4.76	0.27	0.55
		mg/dl	162.15	141.07	-	183.23	10.54	21.08
	Cholesterol Oxidase - IDMS	mmol/l	4.18	3.64	-	4.72	0.27	0.54
		mg/dl	161.06	140.13	-	182.00	10.47	20.94
CK Total	CK-NAC (IFCC) 37°C	U/l	246.75	217.14	-	276.36	14.81	29.61
	CK-NAC (IFCC) 30°C	U/l	154.22	135.71	-	172.73	9.25	18.51
	CK-NAC (IFCC) 25°C	U/l	104.60	92.05	-	117.15	6.28	12.55
Creatinine	Alkaline picrate no deproteinization	µmol/l	118.42	94.74	-	142.11	11.84	23.68
		mg/dl	1.34	1.07	-	1.60	0.13	0.27
	Roche Creatinine Plus	µmol/l	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	117.41	93.93	-	140.89	11.74	23.48
		mg/dl	1.33	1.06	-	1.59	0.13	0.27
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/l	116.40	93.12	-	139.68	11.64	23.28
		mg/dl	1.32	1.05	-	1.58	0.13	0.26
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	49.40	41.99	-	56.81	3.71	7.41
	Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/l	39.34	33.44	-	45.24	2.95	5.90
	Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/l	30.19	25.66	-	34.72	2.26	4.53
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	52.14	44.32	-	59.97	3.91	7.82
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/l	41.17	34.99	-	47.34	3.09	6.18
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/l	32.02	27.22	-	36.82	2.40	4.80
Glucose	Hexokinase	mmol/l	6.41	5.45	-	7.38	0.48	0.96
		mg/dl	115.35	98.05	-	132.65	8.65	17.30
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	21.42	17.56	-	25.27	1.93	3.86
		µg/dl	119.57	98.05	-	141.09	10.76	21.52
	Colorimetric without ppt.(Ferrozine)	µmol/l	20.48	16.80	-	24.17	1.84	3.69
		µg/dl	114.37	93.79	-	134.96	10.29	20.59
Lipase	Roche Colorimetric 37°C	U/l	42.82	34.26	-	51.39	4.28	8.56
Lithium	Ion selective electrode	mmol/l	0.92	0.81	-	1.03	0.05	0.11
		mg/dl	0.64	0.56	-	0.71	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.82	0.72	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
	Chlorphosphonazo III	mmol/l	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	2.00	1.76	-	2.24	0.12	0.24
Phosphate Inorganic	Phosphomolybdate enzymatic	mmol/l	1.34	1.14	-	1.55	0.10	0.20
		mg/dl	4.17	3.54	-	4.80	0.31	0.63
	Phosphomolybdate UV	mmol/l	1.33	1.13	-	1.53	0.10	0.20
		mg/dl	4.14	3.52	-	4.76	0.31	0.62
Potassium	ISE method - indirect	mmol/l	4.06	3.77	-	4.34	0.14	0.28
Protein Total	Biuret reaction end point	g/l	58.69	46.95	-	70.43	5.87	11.74
		g/dl	5.87	4.70	-	7.04	0.59	1.17
	Biuret reaction kinetic	g/l	60.07	48.06	-	72.09	6.01	12.01
		g/dl	6.01	4.81	-	7.21	0.60	1.20
Sodium	ISE method - indirect	mmol/l	147.86	140.47	-	155.25	3.70	7.39
TIBC	FE+UIBC(saturation with iron)	µmol/l	39.35	31.48	-	47.21	3.93	7.87
		µg/dl	220.26	176.21	-	264.31	22.03	44.05
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.18	1.00	-	1.36	0.09	0.18
		mg/dl	104.42	88.75	-	120.08	7.83	15.66
Urea	Urease kinetic	mmol/l	6.56	5.57	-	7.54	0.49	0.98
		mg/dl	39.37	33.46	-	45.27	2.95	5.91
	BUN	mmol/l	6.56	5.57	-	7.54	0.49	0.98
		mg/dl	18.42	15.66	-	21.19	1.38	2.76

Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.37	0.33	-	0.42	0.02	0.05
		mg/dl	6.24	5.43	-	7.05	0.41	0.81
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.37	0.33	-	0.42	0.02	0.05
		mg/dl	6.21	5.40	-	7.02	0.40	0.81
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.37	0.33	-	0.42	0.02	0.05
		mg/dl	6.21	5.40	-	7.02	0.40	0.81

KONELAB 20/30/60@/ THERMO SCIENTIFIC INDIKO PLUS@

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	42.10	35.78	-	48.41	3.16	6.31
		g/dl	4.21	3.58	-	4.84	0.32	0.63
ALT (GPT)	Tris buffer without PSP 37°C	U/l	44.75	35.80	-	53.70	4.47	8.95
	Tris buffer without PSP 30°C	U/l	33.03	26.42	-	39.63	3.30	6.61
	Tris buffer without PSP 25°C	U/l	25.57	20.46	-	30.68	2.56	5.11
AST (GOT)	Tris buffer without PSP 37°C	U/l	45.88	36.70	-	55.06	4.59	9.18
	Tris buffer without PSP 30°C	U/l	31.00	24.80	-	37.20	3.10	6.20
	Tris buffer without PSP 25°C	U/l	22.32	17.86	-	26.78	2.23	4.46
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	16.62	13.29	-	19.94	1.66	3.32
		mg/dl	0.98	0.78	-	1.17	0.10	0.20
Calcium	Arsenazo III	mmol/l	2.32	2.08	-	2.55	0.12	0.23
		mg/dl	9.32	8.39	-	10.25	0.47	0.93
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.27	3.71	-	4.82	0.28	0.55
		mg/dl	164.33	142.97	-	185.69	10.68	21.36
CK Total	CK-NAC (IFCC) 37°C	U/l	258.82	227.76	-	289.88	15.53	31.06
	CK-NAC (IFCC) 30°C	U/l	162.27	142.79	-	181.74	9.74	19.47
	CK-NAC (IFCC) 25°C	U/l	109.97	96.77	-	123.16	6.60	13.20
Creatinine	Alkaline picrate no deproteinization	µmol/l	118.42	94.74	-	142.11	11.84	23.68
		mg/dl	1.34	1.07	-	1.60	0.13	0.27
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	51.23	43.55	-	58.91	3.84	7.68
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/l	40.25	34.21	-	46.29	3.02	6.04
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/l	32.02	27.22	-	36.82	2.40	4.80
Glucose	Glucose oxidase	mmol/l	6.38	5.42	-	7.34	0.48	0.96
		mg/dl	115.35	98.05	-	132.65	8.65	17.30
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	22.46	18.42	-	26.50	2.02	4.04
		µg/dl	125.81	103.16	-	148.46	11.32	22.65
Magnesium	Xylidyl Blue	mmol/l	0.81	0.71	-	0.91	0.05	0.10
		mg/dl	1.97	1.73	-	2.20	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.33	1.13	-	1.53	0.10	0.20
		mg/dl	4.14	3.52	-	4.76	0.31	0.62
Potassium	ISE method - direct	mmol/l	4.06	3.77	-	4.34	0.14	0.28
Protein Total	Biuret reaction end point	g/l	61.13	48.91	-	73.36	6.11	12.23
		g/dl	6.11	4.89	-	7.34	0.61	1.22
Sodium	ISE method - direct	mmol/l	147.86	140.47	-	155.25	3.70	7.39
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.18	1.00	-	1.36	0.09	0.18
		mg/dl	104.42	88.75	-	120.08	7.83	15.66
Urea	Urease kinetic	mmol/l	6.94	5.90	-	7.98	0.52	1.04
		mg/dl	41.71	35.45	-	47.96	3.13	6.26
	BUN	mmol/l	6.94	5.90	-	7.98	0.52	1.04
		mg/dl	19.45	16.53	-	22.37	1.46	2.92

MINDRAY BS-200/300/400

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	42.63	36.24	-	49.03	3.20	6.40
		g/dl	4.26	3.62	-	4.90	0.32	0.64
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/l	259.28	220.39	-	298.17	19.45	38.89
	AMP optimised to IFCC 30°C	U/l	201.66	171.41	-	231.91	15.12	30.25
	AMP optimised to IFCC 25°C	U/l	166.31	141.36	-	191.25	12.47	24.95
	AMP non-optimised 37°C	U/l	257.97	219.28	-	296.67	19.35	38.70
	AMP non-optimised 30°C	U/l	200.35	170.30	-	230.41	15.03	30.05
	AMP non-optimised 25°C	U/l	165.00	140.25	-	189.75	12.37	24.75
ALT (GPT)	Tris buffer without PSP 37°C	U/l	44.75	35.80	-	53.70	4.47	8.95
	Tris buffer without PSP 30°C	U/l	33.03	26.42	-	39.63	3.30	6.61

	Tris buffer without PSP 25°C	U/l	25.57	20.46	-	30.68	2.56	5.11
AST (GOT)	Tris buffer without PSP 37°C	U/l	44.64	35.71	-	53.57	4.46	8.93
	Tris buffer without PSP 30°C	U/l	42.16	33.73	-	50.59	4.22	8.43
	Tris buffer without PSP 25°C	U/l	21.08	16.86	-	25.30	2.11	4.22

Bilirubin Direct	Oxidation to Biliverdin/Vanadate	µmol/l	19.94	15.96	-	23.93	1.99	3.99
		mg/dl	1.16	0.93	-	1.39	0.12	0.23
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	28.17	22.54	-	33.81	2.82	5.63
		mg/dl	1.65	1.32	-	1.98	0.17	0.33
	Oxidation to Biliverdin/Vanadate	µmol/l	26.28	21.02	-	31.53	2.63	5.26
		mg/dl	1.54	1.23	-	1.84	0.15	0.31
Calcium	Arsenazo III	mmol/l	2.31	2.08	-	2.54	0.12	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.22	3.67	-	4.77	0.27	0.55
		mg/dl	163.24	142.02	-	184.46	10.61	21.22
	Cholesterol Oxidase - IDMS	mmol/l	4.21	3.66	-	4.76	0.27	0.55
		mg/dl	162.15	141.07	-	183.23	10.54	21.08
CK Total	CK-NAC (IFCC) 37°C	U/l	252.12	221.86	-	282.37	15.13	30.25
	CK-NAC (IFCC) 30°C	U/l	158.24	139.25	-	177.23	9.49	18.99
	CK-NAC (IFCC) 25°C	U/l	107.28	94.41	-	120.16	6.44	12.87
Creatinine	Alkaline picrate no deproteinization	µmol/l	122.47	97.98	-	146.97	12.25	24.49
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
	Creatinine PAP method	µmol/l	119.44	95.55	-	143.32	11.94	23.89
		mg/dl	1.35	1.08	-	1.62	0.13	0.27
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	50.32	42.77	-	57.86	3.77	7.55
	Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/l	39.34	33.44	-	45.24	2.95	5.90
	Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/l	31.10	26.44	-	35.77	2.33	4.67
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	50.32	42.77	-	57.86	3.77	7.55
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/l	39.34	33.44	-	45.24	2.95	5.90
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/l	31.10	26.44	-	35.77	2.33	4.67
Glucose	Glucose oxidase	mmol/l	6.45	5.48	-	7.41	0.48	0.97
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	19.55	16.03	-	23.07	1.76	3.52
		µg/dl	109.17	89.52	-	128.83	9.83	19.65
LD (LDH)	P->L German methods 37°C	U/l	430.37	365.81	-	494.92	32.28	64.56
	P->L German methods 30°C	U/l	310.82	264.20	-	357.45	23.31	46.62
	P->L German methods 25°C	U/l	218.17	185.45	-	250.90	16.36	32.73
	P->L SFBC 37°C	U/l	405.46	344.64	-	466.28	30.41	60.82
	P->L SFBC 30°C	U/l	292.89	248.96	-	336.82	21.97	43.93
	P->L SFBC 25°C	U/l	205.22	174.44	-	236.01	15.39	30.78
Magnesium	Xylidyl Blue	mmol/l	0.83	0.73	-	0.93	0.05	0.10
		mg/dl	2.02	1.78	-	2.26	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.33	1.13	-	1.52	0.10	0.20
		mg/dl	4.11	3.49	-	4.72	0.31	0.62
Protein Total	Biuret reaction end point	g/l	62.51	50.01	-	75.02	6.25	12.50
		g/dl	6.25	5.00	-	7.50	0.63	1.25
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.16	0.99	-	1.33	0.09	0.17
		mg/dl	102.62	87.23	-	118.02	7.70	15.39
Urea	Urease kinetic	mmol/l	6.96	5.91	-	8.00	0.52	1.04
		mg/dl	41.80	35.53	-	48.07	3.14	6.27
	BUN	mmol/l	6.96	5.91	-	8.00	0.52	1.04
		mg/dl	19.54	16.61	-	22.48	1.47	2.93
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.10	5.31	-	6.90	0.40	0.79
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.16	5.36	-	6.96	0.40	0.80
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.35	0.31	-	0.40	0.02	0.05
		mg/dl	6.01	5.22	-	6.79	0.39	0.78

ANALYTE	METHOD	UNITS	TARGET	RANGE		1SD	2SD
Albumin	Bromocresol Green	g/l	44.99	38.24	-	51.74	6.75
		g/dl	4.50	3.82	-	5.17	0.67
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/l	235.71	200.35	-	271.07	35.36
	Roche Integra AMP buffer 30°C	U/l	183.33	155.83	-	210.83	27.50
	Roche Integra AMP buffer 25°C	U/l	150.59	128.00	-	173.18	22.59
ALT (GPT)	Tris buffer without P5P 37°C	U/l	38.35	30.68	-	46.02	7.67
	Tris buffer without P5P 30°C	U/l	28.77	23.01	-	34.52	5.75
	Tris buffer without P5P 25°C	U/l	21.31	17.05	-	25.57	4.26
Amylase Total	Roche liquid stable pNPG7 37°C	U/l	115.95	98.55	-	133.34	17.39
AST (GOT)	Tris buffer without P5P 37°C	U/l	38.44	30.75	-	46.13	7.69
	Tris buffer without P5P 30°C	U/l	26.04	20.83	-	31.25	5.21
	Tris buffer without P5P 25°C	U/l	18.60	14.88	-	22.32	3.72
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	23.02	18.42	-	27.63	4.60
		mg/dl	1.34	1.08	-	1.61	0.27
	Roche DPD JG standardised	µmol/l	23.14	18.51	-	27.76	4.63
		mg/dl	1.36	1.08	-	1.63	0.27
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	24.56	19.65	-	29.47	4.91
		mg/dl	1.44	1.15	-	1.72	0.29
	Dichlorophenyl Diazonium (DPD)	µmol/l	25.28	20.23	-	30.34	5.06
		mg/dl	1.48	1.18	-	1.78	0.30
	Diazonium ion	µmol/l	24.02	19.22	-	28.82	4.80
		mg/dl	1.41	1.13	-	1.69	0.28
Calcium	NM-BAPTA	mmol/l	2.29	2.06	-	2.52	0.23
		mg/dl	9.14	8.22	-	10.05	0.91
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.18	3.64	-	4.72	0.54
		mg/dl	161.06	140.13	-	182.00	20.94
	Cholesterol Oxidase - IDMS	mmol/l	4.19	3.65	-	4.73	0.54
		mg/dl	162.15	141.07	-	183.23	21.08
CK Total	CK-NAC (IFCC) 37°C	U/l	248.09	218.32	-	277.86	29.77
	CK-NAC (IFCC) 30°C	U/l	155.56	136.89	-	174.23	18.67
	CK-NAC (IFCC) 25°C	U/l	105.94	93.23	-	118.66	12.71
Creatinine	Roche Creatinine Plus	µmol/l	120.45	96.36	-	144.54	24.09
		mg/dl	1.36	1.09	-	1.63	0.27
Glucose	Hexokinase	mmol/l	6.43	5.46	-	7.39	0.96
		mg/dl	115.35	98.05	-	132.65	17.30
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.34	1.14	-	1.55	0.20
		mg/dl	4.17	3.54	-	4.80	0.63
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.20	1.02	-	1.38	0.18
		mg/dl	106.42	90.45	-	122.38	15.96
Urea	Urease kinetic	mmol/l	6.54	5.56	-	7.52	0.98
		mg/dl	39.28	33.38	-	45.17	5.89
	BUN	mmol/l	6.54	5.56	-	7.52	0.98
		mg/dl	18.33	15.58	-	21.08	2.75
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.05
		mg/dl	6.11	5.32	-	6.91	0.79
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.05
		mg/dl	6.16	5.36	-	6.96	0.80
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.36	0.32	-	0.41	0.05
		mg/dl	6.08	5.29	-	6.87	0.79

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	44.13	37.51	-	50.75	3.31	6.62
		g/dl	4.41	3.75	-	5.08	0.33	0.66
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/l	230.47	195.90	-	265.04	17.29	34.57
	Roche Integra AMP buffer 30°C	U/l	179.40	152.49	-	206.31	13.46	26.91
	Roche Integra AMP buffer 25°C	U/l	146.66	124.66	-	168.66	11.00	22.00
ALT (GPT)	Tris buffer without P5P 37°C	U/l	41.55	33.24	-	49.86	4.16	8.31
	Tris buffer without P5P 30°C	U/l	30.90	24.72	-	37.08	3.09	6.18
	Tris buffer without P5P 25°C	U/l	23.44	18.75	-	28.13	2.34	4.69
Amylase Total	BM/Roche Colorimetric pNPG7 37°C	U/l	114.58	97.39	-	131.77	8.59	17.19
	Roche liquid stable pNPG7 37°C	U/l	115.95	98.55	-	133.34	8.70	17.39
AST (GOT)	Tris buffer without P5P 37°C	U/l	39.68	31.74	-	47.62	3.97	7.94
	Tris buffer without P5P 30°C	U/l	27.28	21.82	-	32.74	2.73	5.46
	Tris buffer without P5P 25°C	U/l	18.60	14.88	-	22.32	1.86	3.72
Bicarbonate	Enzymatic	mmol/l	15.43	12.34	-	18.51	1.54	3.09
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	23.71	18.96	-	28.45	2.37	4.74
		mg/dl	1.39	1.11	-	1.67	0.14	0.28
	Diazo with Sulphanilic Acid	µmol/l	23.25	18.60	-	27.90	2.32	4.65
		mg/dl	1.36	1.08	-	1.63	0.14	0.27
	Roche DPD JG standardised	µmol/l	23.02	18.42	-	27.63	2.30	4.60
		mg/dl	1.34	1.08	-	1.61	0.13	0.27
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	24.38	19.51	-	29.26	2.44	4.88
		mg/dl	1.43	1.14	-	1.71	0.14	0.29
	Dichlorophenyl Diazonium (DPD)	µmol/l	24.29	19.43	-	29.15	2.43	4.86
		mg/dl	1.42	1.13	-	1.70	0.14	0.28
	Diazonium ion	µmol/l	24.38	19.51	-	29.26	2.44	4.88
		mg/dl	1.43	1.14	-	1.71	0.14	0.29
Calcium	Cresolphthalein complexone	mmol/l	2.30	2.07	-	2.53	0.11	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
	NM-BAPTA	mmol/l	2.30	2.07	-	2.53	0.11	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
Chloride	ISE indirect	mmol/l	92.56	86.08	-	99.04	3.24	6.48
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
	Cholesterol Oxidase - IDMS	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
CK Total	CK-NAC (IFCC) 37°C	U/l	242.73	213.60	-	271.86	14.56	29.13
	CK-NAC (IFCC) 30°C	U/l	151.54	133.35	-	169.72	9.09	18.18
	CK-NAC (IFCC) 25°C	U/l	103.26	90.87	-	115.65	6.20	12.39
Creatinine	Roche Creatinine Plus	µmol/l	125.51	100.41	-	150.61	12.55	25.10
		mg/dl	1.42	1.13	-	1.70	0.14	0.28
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	125.51	100.41	-	150.61	12.55	25.10
		mg/dl	1.42	1.13	-	1.70	0.14	0.28
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	48.49	41.21	-	55.76	3.64	7.27
	Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/l	38.42	32.66	-	44.19	2.88	5.76
	Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/l	30.19	25.66	-	34.72	2.26	4.53
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	48.49	41.21	-	55.76	3.64	7.27
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/l	38.42	32.66	-	44.19	2.88	5.76
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/l	30.19	25.66	-	34.72	2.26	4.53
Glucose	Hexokinase	mmol/l	6.33	5.38	-	7.28	0.47	0.95
		mg/dl	114.27	97.13	-	131.41	8.57	17.14
	Glucose oxidase	mmol/l	6.37	5.42	-	7.33	0.48	0.96
		mg/dl	114.27	97.13	-	131.41	8.57	17.14
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	20.07	16.46	-	23.68	1.81	3.61
		µg/dl	112.29	92.08	-	132.51	10.11	20.21
	Colorimetric without ppt.(Ferrozine)	µmol/l	20.07	16.46	-	23.68	1.81	3.61
		µg/dl	112.29	92.08	-	132.51	10.11	20.21

Lactate	Colorimetric Lactate Oxidase	mmol/l	1.59	1.30	-	1.87	0.14	0.29
		mg/dl	14.30	11.73	-	16.88	1.29	2.57
Lipase	Roche Colorimetric 37°C	U/l	42.82	34.26	-	51.39	4.28	8.56
Magnesium	Xylidyl Blue	mmol/l	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	2.00	1.76	-	2.24	0.12	0.24
	Chlorphosphonazo III	mmol/l	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	2.00	1.76	-	2.24	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.31	1.11	-	1.50	0.10	0.20
		mg/dl	4.05	3.44	-	4.66	0.30	0.61
Potassium	ISE method - indirect	mmol/l	4.12	3.83	-	4.41	0.14	0.29
Protein Total	Biuret reaction end point	g/l	60.39	48.31	-	72.47	6.04	12.08
		g/dl	6.04	4.83	-	7.25	0.60	1.21
Sodium	ISE method - indirect	mmol/l	148.92	141.48	-	156.37	3.72	7.45
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.19	1.01	-	1.37	0.09	0.18
		mg/dl	105.36	89.56	-	121.17	7.90	15.80
	Lipase/Glycerol Dehydrogenase	mmol/l	1.19	1.01	-	1.37	0.09	0.18
		mg/dl	105.36	89.56	-	121.17	7.90	15.80
Urea	Urease kinetic	mmol/l	6.86	5.83	-	7.89	0.51	1.03
		mg/dl	41.24	35.05	-	47.42	3.09	6.19
	BUN	mmol/l	6.86	5.83	-	7.89	0.51	1.03
		mg/dl	19.26	16.37	-	22.15	1.44	2.89
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.10	5.31	-	6.90	0.40	0.79
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.08	5.29	-	6.87	0.40	0.79
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.11	5.32	-	6.91	0.40	0.79

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2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	43.92	37.33	-	50.51	3.29	6.59
		g/dl	4.39	3.73	-	5.05	0.33	0.66
	Turbidimetric Assays	g/l	44.13	37.51	-	50.75	3.31	6.62
		g/dl	4.41	3.75	-	5.08	0.33	0.66
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/l	226.54	192.56	-	260.53	16.99	33.98
	Roche Integra AMP buffer 30°C	U/l	176.78	150.27	-	203.30	13.26	26.52
	Roche Integra AMP buffer 25°C	U/l	145.35	123.55	-	167.16	10.90	21.80
ALT (GPT)	Tris buffer without P5P 37°C	U/l	40.48	32.39	-	48.58	4.05	8.10
	Tris buffer without P5P 30°C	U/l	29.83	23.86	-	35.80	2.98	5.97
	Tris buffer without P5P 25°C	U/l	22.37	17.90	-	26.85	2.24	4.47
Amylase Pancreatic	Roche EPS Liquid 37°C	U/l	63.79	54.22	-	73.35	4.78	9.57
Amylase Total	Roche liquid stable pNPG7 37°C	U/l	115.95	98.55	-	133.34	8.70	17.39
AST (GOT)	Tris buffer without P5P 37°C	U/l	38.44	30.75	-	46.13	3.84	7.69
	Tris buffer without P5P 30°C	U/l	26.04	20.83	-	31.25	2.60	5.21
	Tris buffer without P5P 25°C	U/l	18.60	14.88	-	22.32	1.86	3.72
Bile Acids	Enzymatic Colorimetric	µmol/l	25.15	20.12	-	30.18	2.52	5.03
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	23.48	18.78	-	28.17	2.35	4.70
		mg/dl	1.38	1.10	-	1.65	0.14	0.28
	Roche DPD JG standardised	µmol/l	24.28	19.42	-	29.13	2.43	4.86
		mg/dl	1.42	1.14	-	1.71	0.14	0.28
Bilirubin Total	Dichlorophenyl Diazonium (DPD)	µmol/l	24.38	19.51	-	29.26	2.44	4.88
		mg/dl	1.43	1.14	-	1.71	0.14	0.29
	Diazonium ion	µmol/l	24.29	19.43	-	29.15	2.43	4.86
		mg/dl	1.42	1.13	-	1.70	0.14	0.28

Calcium	Cresolphthalein complexone	mmol/l	2.28	2.05	-	2.51	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	NM-BAPTA	mmol/l	2.28	2.05	-	2.51	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
Chloride	ISE indirect	mmol/l	93.90	87.33	-	100.47	3.29	6.57
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
	Cholesterol Oxidase - IDMS	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
CK Total	CK-NAC (IFCC) 37°C	U/l	238.71	210.06	-	267.35	14.32	28.64
	CK-NAC (IFCC) 30°C	U/l	148.86	130.99	-	166.72	8.93	17.86
	CK-NAC (IFCC) 25°C	U/l	101.92	89.69	-	114.15	6.12	12.23
Creatinine	Roche Creatinine Plus	µmol/l	128.55	102.84	-	154.25	12.85	25.71
		mg/dl	1.46	1.17	-	1.75	0.15	0.29
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	124.50	99.60	-	149.40	12.45	24.90
		mg/dl	1.41	1.13	-	1.69	0.14	0.28
gamma-GT	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C	U/l	48.49	41.21	-	55.76	3.64	7.27
	Gamma glutamyl-3-carboxy-4-nitroanilide 30°C	U/l	38.42	32.66	-	44.19	2.88	5.76
	Gamma glutamyl-3-carboxy-4-nitroanilide 25°C	U/l	30.19	25.66	-	34.72	2.26	4.53
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	52.14	44.32	-	59.97	3.91	7.82
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/l	41.17	34.99	-	47.34	3.09	6.18
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/l	32.02	27.22	-	36.82	2.40	4.80
Glucose	Hexokinase	mmol/l	6.31	5.36	-	7.25	0.47	0.95
		mg/dl	113.19	96.21	-	130.17	8.49	16.98
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	19.55	16.03	-	23.07	1.76	3.52
		µg/dl	109.17	89.52	-	128.83	9.83	19.65
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.55	1.27	-	1.82	0.14	0.28
		mg/dl	13.89	11.39	-	16.38	1.25	2.50
Lipase	Roche Colorimetric 37°C	U/l	42.82	34.26	-	51.39	4.28	8.56
Lithium	Spectrophotometric	mmol/l	0.98	0.86	-	1.10	0.06	0.12
		mg/dl	0.68	0.60	-	0.76	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.83	0.73	-	0.93	0.05	0.10
		mg/dl	2.02	1.78	-	2.26	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.29	1.10	-	1.48	0.10	0.19
		mg/dl	3.99	3.40	-	4.59	0.30	0.60
Potassium	ISE method - indirect	mmol/l	4.13	3.84	-	4.42	0.14	0.29
Protein Total	Biuret reaction end point	g/l	60.18	48.14	-	72.21	6.02	12.04
		g/dl	6.02	4.81	-	7.22	0.60	1.20
Sodium	ISE method - indirect	mmol/l	149.99	142.49	-	157.49	3.75	7.50
TIBC	FE+UIBC(saturation with iron)	µmol/l	39.72	31.78	-	47.67	3.97	7.94
		µg/dl	222.14	177.71	-	266.57	22.21	44.43
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.18	1.00	-	1.36	0.09	0.18
		mg/dl	104.42	88.75	-	120.08	7.83	15.66
	L/G Kinase EP. no correction	mmol/l	1.18	1.00	-	1.36	0.09	0.18
		mg/dl	104.42	88.75	-	120.08	7.83	15.66
Urea	Urease kinetic	mmol/l	6.64	5.64	-	7.64	0.50	1.00
		mg/dl	39.93	33.94	-	45.92	2.99	5.99
	BUN	mmol/l	6.64	5.64	-	7.64	0.50	1.00
		mg/dl	18.61	15.82	-	21.40	1.40	2.79
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.35	0.31	-	0.40	0.02	0.05
		mg/dl	5.92	5.15	-	6.69	0.38	0.77
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.35	0.31	-	0.40	0.02	0.05
		mg/dl	5.90	5.13	-	6.67	0.38	0.77
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.35	0.31	-	0.40	0.02	0.05
		mg/dl	5.92	5.15	-	6.69	0.38	0.77

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Total Acid Phosphatase	Naphtyl Phosphate, Kinetic 37°C	U/L	16.14	10.65	-	21.62	2.74	5.49
Albumin	Bromocresol Green	g/l	43.19	36.71	-	49.67	3.24	6.48
		g/dl	4.32	3.67	-	4.97	0.32	0.65
Alkaline Phosphatase	Diethanolamine buffer DEA 37°C	U/l	338.43	287.66	-	389.19	25.38	50.76
	AMP optimised to IFCC 37°C	U/l	248.92	211.59	-	286.26	18.67	37.34
ALT (GPT)	Tris buffer without P5P 37°C	U/l	41.72	33.37	-	50.06	4.17	8.34
Amylase Pancreatic	Liquid Ethylidene pNPG7 37°C	U/l	63.81	54.24	-	73.38	4.79	9.57
Amylase Total	Liquid Ethylidene pNPG7 37°C	U/l	105.83	89.96	-	121.71	7.94	15.87
AST (GOT)	Tris buffer without P5P 37°C	U/l	42.32	33.85	-	50.78	4.23	8.46
Bile Acids	5th Generation Colorimetric	µmol/l	24.86	19.89	-	29.83	2.49	4.97
Bilirubin Direct	Diazo with Sulphanilic Acid	µmol/l	21.41	17.13	-	25.69	2.14	4.28
		mg/dl	1.33	1.07	-	1.60	0.13	0.27
	Oxidation to Biliverdin/Vanadate	µmol/l	21.39	17.11	-	25.66	2.14	4.28
		mg/dl	1.33	1.07	-	1.60	0.13	0.27
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	28.86	23.09	-	34.64	2.89	5.77
		mg/dl	1.80	1.44	-	2.16	0.18	0.36
	Oxidation to Biliverdin/Vanadate	µmol/l	28.87	23.10	-	34.65	2.89	5.77
		mg/dl	1.80	1.44	-	2.16	0.18	0.36
Calcium	Arsenazo III	mmol/l	2.30	2.07	-	2.53	0.12	0.23
		mg/dl	9.16	8.25	-	10.08	0.46	0.92
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.27	3.72	-	4.83	0.28	0.56
		mg/dl	164.61	143.21	-	186.01	10.70	21.40
CK Total	CK-NAC substrate start (DGKC) 37°C	U/l	244.19	214.88	-	273.49	14.65	29.30
	CK-NAC (IFCC) 37°C	U/l	244.13	214.83	-	273.42	14.65	29.30
Creatinine	Alkaline picrate no deproteinization	µmol/l	122.08	97.66	-	146.49	12.21	24.42
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Enzymatic UV method	µmol/l	121.49	97.19	-	145.79	12.15	24.30
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	51.63	43.89	-	59.37	3.87	7.74
Glucose	Hexokinase	mmol/l	6.48	5.51	-	7.45	0.49	0.97
		mg/dl	116.37	98.91	-	133.82	8.73	17.45
	Glucose oxidase	mmol/l	6.48	5.51	-	7.46	0.49	0.97
		mg/dl	116.37	98.91	-	133.82	8.73	17.45
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	20.09	16.48	-	23.71	1.81	3.62
		µg/dl	112.36	92.13	-	132.58	10.11	20.22
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.55	1.27	-	1.83	0.14	0.28
		mg/dl	13.96	11.45	-	16.48	1.26	2.51
LD (LDH)	P->L German methods 37°C	U/l	437.96	372.27	-	503.66	32.85	65.69
Lipase	Fortress Colorimetric 37°C	U/l	45.69	36.55	-	54.83	4.57	9.14
Magnesium	Xylidyl Blue	mmol/l	0.82	0.72	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.22	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.31	1.11	-	1.50	0.10	0.20
		mg/dl	4.05	3.44	-	4.66	0.30	0.61
Potassium	Enzymatic	mmol/l	4.26	3.96	-	4.55	0.15	0.30
Protein Total	Biuret reaction end point	g/l	61.24	48.99	-	73.49	6.12	12.25
		g/dl	6.12	4.90	-	7.35	0.61	1.22
Sodium	Enzymatic	mmol/l	150.06	142.56	-	157.56	3.75	7.50
TIBC	Direct Colorimetric	µmol/l	41.67	33.33	-	50.00	4.17	8.33
		µg/dl	231.32	185.06	-	277.59	23.13	46.26

Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.17	0.99	-	1.34	0.09	0.18
		mg/dl	103.38	87.87	-	118.89	7.75	15.51
Urea	Urease kinetic	mmol/l	6.79	5.77	-	7.81	0.51	1.02
		mg/dl	40.80	34.68	-	46.93	3.06	6.12
	BUN	mmol/l	6.79	5.77	-	7.81	0.51	1.02
		mg/dl	19.04	16.19	-	21.90	1.43	2.86
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.37	0.32	-	0.41	0.02	0.05
		mg/dl	6.17	5.37	-	6.97	0.40	0.80
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.37	0.32	-	0.41	0.02	0.05
		mg/dl	6.17	5.37	-	6.97	0.40	0.80
Zinc	Colorimetric without deprot.	µmol/l	27.14	21.71	-	32.56	2.71	5.43
		µg/dl	177.07	141.65	-	212.48	17.71	35.41

SIEMENS ADVIA 1200/1650/1800/2400®

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE		1SD	2SD	
Albumin	Bromocresol Green	g/l	42.10	35.78	-	48.41	3.16	6.31
		g/dl	4.21	3.58	-	4.84	0.32	0.63
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/l	220.00	187.00	-	253.00	16.50	33.00
ALT (GPT)	Tris buffer without P5P 37°C	U/l	46.88	37.50	-	56.25	4.69	9.38
Amylase Total	Siemens - blocked pNPG7 37°C	U/l	115.95	98.55	-	133.34	8.70	17.39
AST (GOT)	Tris buffer without P5P 37°C	U/l	45.88	36.70	-	55.06	4.59	9.18
Bicarbonate	Enzymatic	mmol/l	16.15	12.92	-	19.38	1.62	3.23
Bile Acids	Enzymatic Colorimetric	µmol/l	25.36	20.29	-	30.43	2.54	5.07
Bilirubin Direct	Oxidation to Biliverdin/Vanadate	µmol/l	21.77	17.41	-	26.12	2.18	4.35
		mg/dl	1.28	1.02	-	1.53	0.13	0.26
Bilirubin Total	Oxidation to Biliverdin/Vanadate	µmol/l	29.71	23.77	-	35.65	2.97	5.94
		mg/dl	1.73	1.39	-	2.08	0.17	0.35
Calcium	Arsenazo III	mmol/l	2.24	2.02	-	2.47	0.11	0.22
		mg/dl	8.99	8.09	-	9.89	0.45	0.90
Chloride	ISE indirect	mmol/l	97.33	90.52	-	104.15	3.41	6.81
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.28	3.72	-	4.83	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50

CK Total	CK-NAC (IFCC) 37°C	U/l	241.39	212.42	-	270.35	14.48	28.97
Creatinine	Enzymatic UV method	µmol/l	123.48	98.79	-	148.18	12.35	24.70
		mg/dl	1.40	1.12	-	1.68	0.14	0.28
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	122.47	97.98	-	146.97	12.25	24.49
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	49.40	41.99	-	56.81	3.71	7.41
Glucose	Hexokinase	mmol/l	6.18	5.25	-	7.10	0.46	0.93
		mg/dl	111.04	94.38	-	127.69	8.33	16.66
	Glucose oxidase	mmol/l	6.48	5.51	-	7.45	0.49	0.97
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	19.44	15.94	-	22.94	1.75	3.50
		µg/dl	109.17	89.52	-	128.83	9.83	19.65
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.44	1.18	-	1.70	0.13	0.26
		mg/dl	12.95	10.62	-	15.28	1.17	2.33
Lipase	Other Colorimetric 37°C	U/l	49.31	39.45	-	59.17	4.93	9.86
Magnesium	Xylidyl Blue	mmol/l	0.79	0.69	-	0.88	0.05	0.09
		mg/dl	1.91	1.68	-	2.14	0.11	0.23
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.33	1.13	-	1.52	0.10	0.20
		mg/dl	4.11	3.49	-	4.72	0.31	0.62
Potassium	ISE method - indirect	mmol/l	4.11	3.82	-	4.40	0.14	0.29
Protein Total	Biuret reaction end point	g/l	59.86	47.89	-	71.83	5.99	11.97
		g/dl	5.99	4.79	-	7.18	0.60	1.20
Sodium	ISE method - indirect	mmol/l	151.05	143.50	-	158.60	3.78	7.55
TIBC	FE+UIBC(saturation with iron)	µmol/l	42.17	33.74	-	50.60	4.22	8.43
		µg/dl	235.32	188.25	-	282.38	23.53	47.06
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.21	1.03	-	1.39	0.09	0.18
		mg/dl	107.47	91.35	-	123.59	8.06	16.12
Urea	Urease kinetic	mmol/l	6.91	5.87	-	7.95	0.52	1.04
		mg/dl	41.52	35.29	-	47.75	3.11	6.23
	BUN	mmol/l	6.91	5.87	-	7.95	0.52	1.04
		mg/dl	19.36	16.45	-	22.26	1.45	2.90
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.17	5.36	-	6.97	0.40	0.80

SIEMENS ATELLICA SOLUTION

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD		
Albumin	Bromocresol Green	g/l	42.63	36.24	-	49.03	3.20	6.40
		g/dl	4.26	3.62	-	4.90	0.32	0.64
	Bromocresol Purple	g/l	44.46	37.79	-	51.12	3.33	6.67
		g/dl	4.45	3.78	-	5.11	0.33	0.67
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/l	220.00	187.00	-	253.00	16.50	33.00
ALT (GPT)	Tris buffer without PSP 37°C	U/l	45.81	36.65	-	54.97	4.58	9.16
Amylase Pancreatic	Immunoinhibition EPS substrate 37°C	U/l	75.88	64.50	-	87.27	5.69	11.38
Amylase Total	Siemens - blocked pNPG7 37°C	U/l	129.59	110.15	-	149.02	9.72	19.44
AST (GOT)	Tris buffer without PSP 37°C	U/l	43.40	34.72	-	52.08	4.34	8.68
Bicarbonate	Enzymatic	mmol/l	16.39	13.11	-	19.67	1.64	3.28
Bilirubin Direct	Oxidation to Biliverdin/Vanadate	µmol/l	22.45	17.96	-	26.94	2.25	4.49
		mg/dl	1.31	1.05	-	1.57	0.13	0.26
Bilirubin Total	Oxidation to Biliverdin/Vanadate	µmol/l	29.62	23.69	-	35.54	2.96	5.92
		mg/dl	1.73	1.39	-	2.08	0.17	0.35

Calcium	Cresolphthalein complexone	mmol/l	2.27	2.04	-	2.50	0.11	0.23
		mg/dl	9.14	8.22	-	10.05	0.46	0.91
	Arsenazo III	mmol/l	2.30	2.07	-	2.53	0.11	0.23
		mg/dl	9.23	8.31	-	10.15	0.46	0.92
Chloride	ISE indirect	mmol/l	98.29	91.41	-	105.17	3.44	6.88
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.31	3.75	-	4.87	0.28	0.56
		mg/dl	166.50	144.86	-	188.15	10.82	21.65
	Cholesterol Oxidase - IDMS	mmol/l	4.30	3.74	-	4.86	0.28	0.56
		mg/dl	165.42	143.91	-	186.92	10.75	21.50
CK Total	CK-NAC (IFCC) 37°C	U/l	242.73	213.60	-	271.86	14.56	29.13
Creatinine	Alkaline picrate no deproteinization	µmol/l	120.45	96.36	-	144.54	12.04	24.09
		mg/dl	1.36	1.09	-	1.63	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	122.47	97.98	-	146.97	12.25	24.49
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	52.14	44.32	-	59.97	3.91	7.82
Glucose	Hexokinase	mmol/l	6.25	5.31	-	7.19	0.47	0.94
		mg/dl	113.19	96.21	-	130.17	8.49	16.98
	Glucose oxidase	mmol/l	6.46	5.49	-	7.43	0.48	0.97
		mg/dl	116.43	98.96	-	133.89	8.73	17.46
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	19.76	16.20	-	23.31	1.78	3.56
		µg/dl	110.21	90.38	-	130.05	9.92	19.84
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.50	1.23	-	1.77	0.14	0.27
		mg/dl	13.57	11.13	-	16.01	1.22	2.44
Lipase	Other Colorimetric 37°C	U/l	48.01	38.41	-	57.62	4.80	9.60
Lithium	Spectrophotometric	mmol/l	0.95	0.84	-	1.07	0.06	0.11
		mg/dl	0.66	0.58	-	0.74	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.80	0.71	-	0.90	0.05	0.10
		mg/dl	1.94	1.71	-	2.18	0.12	0.23
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.33	1.13	-	1.52	0.10	0.20
		mg/dl	4.11	3.49	-	4.72	0.31	0.62
Potassium	ISE method - indirect	mmol/l	4.05	3.76	-	4.33	0.14	0.28
Protein Total	Biuret reaction end point	g/l	60.60	48.48	-	72.72	6.06	12.12
		g/dl	6.06	4.85	-	7.27	0.61	1.21
Sodium	ISE method - indirect	mmol/l	149.99	142.49	-	157.49	3.75	7.50
		µmol/l	45.28	36.22	-	54.33	4.53	9.06
TIBC	Direct Colorimetric	µg/dl	253.20	202.56	-	303.84	25.32	50.64
		mmol/l	1.23	1.05	-	1.42	0.09	0.18
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.23	1.05	-	1.42	0.09	0.18
		mg/dl	109.58	93.14	-	126.01	8.22	16.44
Urea	Urease kinetic	mmol/l	6.98	5.93	-	8.02	0.52	1.05
		mg/dl	41.89	35.61	-	48.18	3.14	6.28
	BUN	mmol/l	6.98	5.93	-	8.02	0.52	1.05
		mg/dl	19.54	16.61	-	22.48	1.47	2.93
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.37	0.33	-	0.42	0.02	0.05
		mg/dl	6.24	5.43	-	7.05	0.41	0.81
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.19	5.38	-	6.99	0.40	0.80

SIEMENS DIMENSION EXL®

LOT NO.

HSN092

EXP.

2028/06

ANALYTE	METHOD	UNITS	TARGET	RANGE	1SD	2SD
Albumin	Bromocresol Purple	g/l	44.88	38.15	-	6.73
		g/dl	4.49	3.82	-	0.67
Alkaline Phosphatase	Siemens Dimension AMP buffer 37°C	U/l	226.54	192.56	-	33.98
ALT (GPT)	Tris buffer with PSP 37°C	U/l	50.07	40.06	-	10.01
Amylase Total	Siemens 2-chloro-pNPG3 37°C	U/l	118.67	100.87	-	17.80
AST (GOT)	Tris buffer with PSP 37°C	U/l	53.32	42.66	-	10.66
	Siemens Dade Standard Non IFCC Correlated 37°C	U/l	54.56	43.65	-	10.91

Bilirubin Direct	Diazo/Sulphanilic Siemens Dimension	µmol/l	16.18	12.95	-	19.42	1.62	3.24
		mg/dl	0.95	0.76	-	1.14	0.09	0.19
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	27.72	22.18	-	33.27	2.77	5.54
		mg/dl	1.63	1.30	-	1.95	0.16	0.33
Calcium	Cresolphthalein complexone	mmol/l	2.22	2.00	-	2.44	0.11	0.22
		mg/dl	8.88	8.00	-	9.77	0.44	0.89
Chloride	ISE indirect	mmol/l	93.71	87.15	-	100.27	3.28	6.56
Cholesterol	Dimension-Siemens reagents	mmol/l	3.78	3.29	-	4.27	0.25	0.49
		mg/dl	145.83	126.87	-	164.79	9.48	18.96
CK Total	CK-NAC (IFCC) 37°C	U/l	238.71	210.06	-	267.35	14.32	28.64
Creatinine	Alkaline picrate no deproteinization	µmol/l	126.52	101.22	-	151.83	12.65	25.30
		mg/dl	1.43	1.14	-	1.71	0.14	0.29
	Jaffe rate blanked	µmol/l	124.50	99.60	-	149.40	12.45	24.90
		mg/dl	1.41	1.13	-	1.69	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/l	54.89	46.66	-	63.12	4.12	8.23
	Siemens Dimension (non IFCC) 37°C	U/l	62.21	52.88	-	71.54	4.67	9.33
Glucose	Hexokinase	mmol/l	6.55	5.57	-	7.54	0.49	0.98
		mg/dl	118.58	100.80	-	136.37	8.89	17.79
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	18.72	15.35	-	22.08	1.68	3.37
		µg/dl	105.01	86.11	-	123.92	9.45	18.90
	Colorimetric without ppt.(Ferrozine)	µmol/l	18.61	15.26	-	21.96	1.68	3.35
		µg/dl	103.98	85.26	-	122.69	9.36	18.72
Lipase	Colorimetric Siemens Dimension (LIPL Kit) 37°C	U/l	46.72	37.37	-	56.06	4.67	9.34
Magnesium	Methylthymol blue	mmol/l	0.80	0.71	-	0.90	0.05	0.10
		mg/dl	1.94	1.71	-	2.18	0.12	0.23
Phosphate Inorganic	Phosphomolybdate enzymatic	mmol/l	1.38	1.17	-	1.59	0.10	0.21
		mg/dl	4.28	3.64	-	4.92	0.32	0.64
	Phosphomolybdate UV	mmol/l	1.39	1.18	-	1.60	0.10	0.21
		mg/dl	4.31	3.66	-	4.95	0.32	0.65
Potassium	ISE method - indirect	mmol/l	4.00	3.72	-	4.28	0.14	0.28
Protein Total	Biuret reaction end point	g/l	63.15	50.52	-	75.78	6.32	12.63
		g/dl	6.32	5.05	-	7.58	0.63	1.26
Sodium	ISE method - indirect	mmol/l	149.99	142.49	-	157.49	3.75	7.50
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.11	0.94	-	1.27	0.08	0.17
		mg/dl	97.88	83.20	-	112.57	7.34	14.68
Urea	Urease kinetic	mmol/l	6.95	5.91	-	7.99	0.52	1.04
		mg/dl	41.80	35.53	-	48.07	3.14	6.27
	BUN	mmol/l	6.95	5.91	-	7.99	0.52	1.04
		mg/dl	19.54	16.61	-	22.48	1.47	2.93
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.13	5.34	-	6.93	0.40	0.80
	Spectrophotometric at 280-290	mmol/l	0.36	0.32	-	0.41	0.02	0.05
		mg/dl	6.10	5.31	-	6.90	0.40	0.79



Fortress
Diagnostics

