Human Assayed Control Level-1

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REF	GTIN	LOT	EXP
BXC0312A (10 x 5 ml) **BXC0312C** (5 x 5 ml)	5060476971575	HSN106	06/2029

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 1and 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 ±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.

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.
Total PSA is stable for 4 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.
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 2-8oC 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.

CE	2°C – 5°C	REF	LOT	IVD		GTIN
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
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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.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Total Acid Phosphatase	Naphtyl Phosphate, Kinetic 37°C	U/L	18.92	12.49	-	25.36	3.22	6.43
Albumin	Bromocresol Green (BCG)	g/L	46.14	39.21	-	53.06	3.46	6.92
		g/dl	4.61	3.92	-	5.30	0.35	0.69
	Bromocresol Purple (BCP)	g/L	46.61	39.62	-	53.60	3.50	6.99
		g/dl	4.67	3.97	-	5.37	0.35	0.70
	Turbidimetric / Turbilatex	g/L	46.57	39.59	-	53.56	3.49	6.99
		g/dl	4.66	3.96	-	5.36	0.35	0.70
Alkaline Phosphatase	Diethanolamine buffer DEA 37°C	U/L	385.84	327.96	-	443.71	28.94	57.88
	Diethanolamine buffer DEA 30°C	U/L	327.47	297.30	-	357.64	15.09	30.17
	Diethanolamine buffer DEA 25°C	U/L	267.73	243.06	-	292.40	12.33	24.67
	AMP optimised to IFCC 37°C	U/L	247.84	210.66	-	285.01	18.59	37.18
	AMP optimised to IFCC 30°C	U/L	193.46	164.44	-	222.48	14.51	29.02
	AMP optimised to IFCC 25°C	U/L	158.80	134.98	-	182.62	11.91	23.82
	AMP non-optimised 37°C	U/L	259.61	220.67	-	298.55	19.47	38.94
	AMP non-optimised 30°C	U/L	205.62	174.93	-	236.30	15.34	30.68
	AMP non-optimised 25°C	U/L	168.73	143.55	-	193.91	12.59	25.18
	Colorimetric 37°C	U/L	247.37	210.27	-	284.48	18.55	37.11
	Colorimetric 30°C	U/L	192.69	162.52	-	222.87	15.09	30.17
	Colorimetric 25°C	U/L	157.54	132.87	-	182.21	12.33	24.67
ALT (GPT)	Colorimetric 37°C	U/L	45.05	36.04	-	54.06	4.50	9.01
	Colorimetric 30°C	U/L	32.96	26.37	-	39.55	3.30	6.59
	Colorimetric 25°C	U/L	25.27	20.22	-	30.32	2.53	5.05
	Tris buffer with P5P 37°C	U/L	48.89	39.11	-	58.67	4.89	9.78
	Tris buffer with P5P 30°C	U/L	34.06	27.25	-	40.87	3.41	6.81
	Tris buffer with P5P 25°C	U/L	26.37	21.10	-	31.64	2.64	5.27
	Tris buffer without P5P 37°C	U/L	44.22	35.37	-	53.06	4.42	8.84
	Tris buffer without P5P 30°C	U/L	31.71	25.36	-	38.05	3.17	6.34
	Tris buffer without P5P 25°C	U/L	24.01	19.21	-	28.82	2.40	4.80
Amylase (Pancreatic)	Immunoinhibition EPS SUBSTRATE 37°C	U/L	74.69	63.49	-	85.90	5.60	11.20
	Roche EPS Liquid Stable 37°C	U/L	69.50	59.08	-	79.93	5.21	10.43
	Fortress Ethylidene pNPG7 Liquid Stable 37°C	U/L	79.09	67.22	-	90.95	5.93	11.86
Amylase (TOTAL)	pNP Maltotrioside substrate 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
	blocked pNPG7 37°C	U/L	114.38	97.22	-	131.53	8.58	17.16
	Fortress Ethylidene pNPG7 Lyophilised 37°C	U/L	112.70	95.80	-	129.61	8.45	16.91
	Fortress Ethylidene pNPG7 Liquid Stable 37°C	U/L	112.70	95.80	-	129.61	8.45	16.91
	BM/ROCHE Colourimetric pNPG7 37°C	U/L	103.31	87.81	-	118.81	7.75	15.50
	ROCHE Integra 2-chloro-pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
	ROCHE 2-chloro-pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
	ROCHE Liquid stable pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
	Siemens 2-chloro-pNPG7 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Beckman Coulter - blocked pNPG7 37°C	U/L	106.38	90.43	-	122.34	7.98	15.96
	Beckman Synchron AMY7 37°C	U/L	108.23	91.99	-	124.46	8.12	16.23
	Abbott Architect Non-IFCC 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
	Abbott Architect IFCC 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Beckman CNPG3 (Extinction Coeff) 37°C	U/L	94.70	80.50	-	108.91	7.10	14.21
Apo-A1	Immunoturbidimetric	g/l	1.26	1.04	-	1.47	0.11	0.21
		mg/dl	125.84	104.45	-	147.23	10.70	21.39
Apo-B	Immunoturbidimetric	g/l	0.77	0.64	-	0.90	0.07	0.13
		mg/dl	76.54	63.53	-	89.55	6.51	13.01
AST (GOT)	Colorimetric 37°C	U/L	43.27	34.62	-	51.92	4.33	8.65
	Colorimetric 30°C	U/L	29.27	23.42	-	35.13	2.93	5.85
	Colorimetric 25°C	U/L	20.36	16.29	-	24.43	2.04	4.07
	Tris buffer without P5P 37°C	U/L	43.18	34.54	-	51.81	4.32	8.64
	Tris buffer without P5P 30°C	U/L	30.18	24.14	-	36.22	3.02	6.04
	Tris buffer without P5P 25°C	U/L	20.00	16.00	-	24.00	2.00	4.00
	Tris buffer with P5P NVKC 37°C	U/L	44.54	35.63	-	53.45	4.45	8.91
	Tris buffer with P5P NVKC 30°C	U/L	30.54	24.43	-	36.65	3.05	6.11
	Tris buffer with P5P NVKC 25°C	U/L	21.64	17.31	-	25.96	2.16	4.33
Bicarbonate	Colorimetric	mmol/L	14.86	11.89	-	17.84	1.49	2.97
	Enzymatic	mmol/L	15.24	12.19	-	18.29	1.52	3.05
Bile Acids	4th Generation Colorimetric	umol/L	24.77	19.81	-	29.72	2.48	4.95
	5th Generation Colorimetric	umol/L	26.99	21.59	-	32.39	2.70	5.40

Bilirubin, Direct	**Diazo with Sulphanilic Acid**	µmol/L	29.68	23.75	-	35.62	2.97	5.94
		mg/dl	1.68	1.35	-	2.02	0.17	0.34
	Diazo with Dichloroaniline (DCA)	µmol/L	29.68	23.75	-	35.62	2.97	5.94
		mg/dl	1.69	1.35	-	2.03	0.17	0.34
	Oxidation to Biliverdin/Vanadate	µmol/L	33.30	26.64	-	39.96	3.33	6.66
		mg/dl	1.60	1.28	-	1.92	0.16	0.32
	Modified Jendrassik	µmol/L	26.70	21.36	-	32.04	2.67	5.34
		mg/dl	1.57	1.25	-	1.88	0.16	0.31
Bilirubin, Total	**Diazo with Dichloroaniline (DCA)**	µmol/L	28.19	22.55	-	33.83	2.82	5.64
		mg/dl	1.73	1.38	-	2.08	0.17	0.35
	Diazo with Sulphanilic Acid	µmol/L	29.95	23.96	-	35.93	2.99	5.99
		mg/dl	1.80	1.44	-	2.17	0.18	0.36
	Dichlorophenyl Diazonium (DPD)	µmol/L	27.31	21.85	-	32.77	2.73	5.46
		mg/dl	1.73	1.39	-	2.08	0.17	0.35
	Nitrobenzenediazonium salt	µmol/L	25.65	20.52	-	30.78	2.57	5.13
		mg/dl	1.50	1.20	-	1.80	0.15	0.30
	Diazonium ion	µmol/L	26.63	21.30	-	31.95	2.66	5.33
		mg/dl	1.70	1.36	-	2.04	0.17	0.34
	Oxidation to Biliverdin/Vanadate	µmol/L	39.30	31.44	-	47.16	3.93	7.86
		mg/dl	1.99	1.59	-	2.39	0.20	0.40
	Modified Jendrassik	µmol/L	34.43	27.55	-	41.32	3.44	6.89
		mg/dl	2.02	1.62	-	2.42	0.20	0.40
Calcium	**Cresolphthalein complexone**	mmol/L	2.35	2.12	-	2.59	0.12	0.24
		mg/dl	9.43	8.49	-	10.37	0.47	0.94
	Ion selective electrode	mmol/L	2.36	2.12	-	2.60	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	Arsenazo III	mmol/L	2.37	2.13	-	2.61	0.12	0.24
		mg/dl	9.49	8.54	-	10.44	0.47	0.95
	NM-BAPTA	mmol/L	2.38	2.14	-	2.62	0.12	0.24
		mg/dl	9.54	8.58	-	10.49	0.48	0.95
Chloride	**ISE direct**	mmol/L	96.03	89.30	-	102.75	3.36	6.72
	ISE indirect	mmol/L	95.21	88.55	-	101.88	3.33	6.66
Cholesterol	**Cholesterol Oxidase - Abell Kendall**	mmol/L	4.27	3.71	-	4.82	0.28	0.55
		mg/dl	164.72	143.31	-	186.14	10.71	21.41
	Cholesterol Oxidase - IDMS	mmol/L	4.26	3.71	-	4.82	0.28	0.55
		mg/dl	164.46	143.08	-	185.84	10.69	21.38
	Cholesterol Dehydrogenase	mmol/L	4.29	3.73	-	4.84	0.28	0.56
		mg/dl	165.41	143.91	-	186.92	10.75	21.50
Cholinesterase	**Butyrylthiocholine (Colourimetric) 37°C**	U/L	7433.20	5946.56	-	8919.84	743.32	1486.64
CK-Nac	**CK-NAC serum start (DGKC) 37°C**	U/L	258.76	227.71	-	289.82	15.53	31.05
	CK-NAC serum start (DGKC) 30°C	U/L	161.38	142.01	-	180.75	9.68	19.37
	CK-NAC serum start (DGKC) 25°C	U/L	109.91	96.72	-	123.09	6.59	13.19
	CK-NAC substrate start (DGKC) 37°C	U/L	255.35	224.71	-	285.99	15.32	30.64
	CK-NAC substrate start (DGKC) 30°C	U/L	161.38	142.01	-	180.75	9.68	19.37
	CK-NAC substrate start (DGKC) 25°C	U/L	109.91	96.72	-	123.09	6.59	13.19
	CK-NAC (IFCC) 37°C	U/L	255.77	225.08	-	286.47	15.35	30.69
	CK-NAC (IFCC) 30°C	U/L	160.59	141.32	-	179.86	9.64	19.27
	CK-NAC (IFCC) 25°C	U/L	109.11	96.02	-	122.20	6.55	13.09
Copper	**Atomic absorption**	µmol/L	19.55	15.64	-	23.46	1.96	3.91
		µg/dl	124.76	99.81	-	149.71	12.48	24.95
	Colorimetric	µmol/L	18.90	15.12	-	22.68	1.89	3.78
		µg/dl	120.10	96.08	-	144.12	12.01	24.02
Cortisol	**Roche Cobas e402/e801**	nmol/L	533.80	400.35	-	667.25	66.73	133.45
		µg/dl	19.21	14.41	-	24.02	2.40	4.80
Creatinine	**Alkaline picrate with deproteinization**	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.39	1.12	-	1.67	0.14	0.28
	Alkaline picrate no deproteinization	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.39	1.11	-	1.66	0.14	0.28
	Enzymatic UV method	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.39	1.11	-	1.67	0.14	0.28
	Creatinine PAP method	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.09	-	1.64	0.14	0.27
	Jaffe rate blanked	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.38	1.11	-	1.66	0.14	0.28
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.40	1.12	-	1.68	0.14	0.28
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/L	118.90	95.12	-	142.68	11.89	23.78
		mg/dl	1.32	1.05	-	1.58	0.13	0.26
	IDMS traceable	µmol/L	117.88	94.30	-	141.45	11.79	23.58
		mg/dl	1.32	1.05	-	1.58	0.13	0.26
D3-Hydroxybutyrate	**Tris Buffer pH 8.5**	mmol/L	0.39	0.33	-	0.45	0.03	0.06

Folate	**Roche Cobas e402/e801**	nmol/l	16.53	12.40	-	20.66	2.07	4.13
		ng/ml	7.31	5.48	-	9.13	0.91	1.83
Free T3	**Roche Cobas e402/e801**	pg/ml	5.33	3.99	-	6.66	0.67	1.33
		ng/dl	0.53	0.40	-	0.67	0.07	0.13
		pmol/L	8.18	6.14	-	10.23	1.02	2.05
Free T4	**Abbott Architect**	pmol/l	13.97	10.48	-	17.46	1.75	3.49
		ng/dl	1.09	0.82	-	1.37	0.14	0.27
		pg/ml	10.93	8.20	-	13.66	1.37	2.73
	Siemens Centaur XP/XPT/Classic	pmol/l	15.28	11.46	-	19.10	1.91	3.82
		ng/dl	1.19	0.89	-	1.49	0.15	0.30
		pg/ml	11.91	8.94	-	14.89	1.49	2.98
	Siemens Immulite 2000/2500	pmol/l	17.09	12.82	-	21.36	2.14	4.27
		ng/dl	1.33	1.00	-	1.66	0.17	0.33
		pg/ml	13.31	9.98	-	16.64	1.66	3.33
	Siemens Immulite 1000	pmol/l	17.67	13.25	-	22.08	2.21	4.42
		ng/dl	1.38	1.04	-	1.73	0.17	0.35
		pg/ml	13.80	10.35	-	17.26	1.73	3.45
	Beckman DxI800	pmol/l	14.30	10.72	-	17.87	1.79	3.57
		ng/dl	1.12	0.84	-	1.40	0.14	0.28
		pg/ml	11.17	8.38	-	13.97	1.40	2.79
	Beckman Access	pmol/l	15.12	11.34	-	18.90	1.89	3.78
		ng/dl	1.18	0.89	-	1.48	0.15	0.30
		pg/ml	11.83	8.87	-	14.79	1.48	2.96
	Tosoh Series	pmol/l	20.13	15.10	-	25.16	2.52	5.03
		ng/dl	1.57	1.18	-	1.96	0.20	0.39
		pg/ml	15.69	11.77	-	19.62	1.96	3.92
	Vitros ECi	pmol/l	28.02	21.01	-	35.02	3.50	7.00
		ng/dl	2.19	1.64	-	2.73	0.27	0.55
		pg/ml	21.86	16.39	-	27.32	2.73	5.46
	Roche Cobas 4000/E411	pmol/l	17.83	13.37	-	22.29	2.23	4.46
		ng/dl	1.39	1.04	-	1.74	0.17	0.35
		pg/ml	13.89	10.41	-	17.36	1.74	3.47
	Roche Cobas e601/602	pmol/l	17.42	13.06	-	21.77	2.18	4.35
		ng/dl	1.36	1.02	-	1.69	0.17	0.34
		pg/ml	13.56	10.17	-	16.95	1.69	3.39
	Biomerieux Vidas FT4N Kit	pmol/l	17.01	12.76	-	21.26	2.13	4.25
		ng/dl	1.32	0.99	-	1.65	0.17	0.33
		pg/ml	13.23	9.92	-	16.54	1.65	3.31
	Siemens Dimension ExI LOCI	pmol/l	16.43	12.33	-	20.54	2.05	4.11
		ng/dl	1.28	0.96	-	1.60	0.16	0.32
		pg/ml	12.82	9.61	-	16.02	1.60	3.20
	Siemens Centaur CP	pmol/l	15.69	11.77	-	19.62	1.96	3.92
		ng/dl	1.22	0.92	-	1.53	0.15	0.31
		pg/ml	12.24	9.18	-	15.30	1.53	3.06
	Fujirebio Lumipulse G Series	pmol/l	13.48	10.11	-	16.84	1.68	3.37
		ng/dl	1.05	0.79	-	1.31	0.13	0.26
		pg/ml	10.52	7.89	-	13.15	1.31	2.63
	Mindray CL 8000i/6000i/2000i/1200i/1000i	pmol/l	13.89	10.41	-	17.36	1.74	3.47
		ng/dl	1.08	0.81	-	1.36	0.14	0.27
		pg/ml	10.85	8.13	-	13.56	1.36	2.71
	Roche Cobas e402/e801	pmol/l	18.72	14.04	-	23.40	2.34	4.68
		ng/dl	1.45	1.09	-	1.82	0.18	0.36
		pg/mL	14.54	10.91	-	18.18	1.82	3.64
Gamma-GT	**Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C**	U/L	55.15	46.88	-	63.43	4.14	8.27
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	43.54	37.01	-	50.07	3.27	6.53
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	34.09	28.98	-	39.20	2.56	5.11
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	57.62	48.98	-	66.27	4.32	8.64
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	45.01	38.26	-	51.76	3.38	6.75
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	35.42	30.11	-	40.74	2.66	5.31
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	63.66	54.11	-	73.21	4.77	9.55
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	50.31	42.77	-	57.86	3.77	7.55
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	39.02	33.17	-	44.87	2.93	5.85
GLDH	**Triethanolamine buffer 50 mmol 37°C**	U/L	34.14	25.61	-	42.68	4.27	8.54
	Triethanolamine buffer 50 mmol 30°C	U/L	25.61	19.21	-	32.01	3.20	6.40
	Triethanolamine buffer 50 mmol 25°C	U/L	21.34	16.00	-	26.67	2.67	5.33

Glucose	**Glucose dehydrogenase**	mmol/L	6.51	5.54	-	7.49	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
	Hexokinase	mmol/L	6.38	5.42	-	7.34	0.48	0.96
		mg/dl	114.98	97.73	-	132.23	8.62	17.25
	Glucose oxidase	mmol/L	6.47	5.50	-	7.44	0.48	0.97
		mg/dl	116.38	98.92	-	133.84	8.73	17.46
α-HBDH	**Oxobutyrate <10mmol/l 37°C**	U/L	215.70	172.56	-	258.84	21.57	43.14
	Oxobutyrate <10mmol/l 30°C	U/L	163.02	130.41	-	195.62	16.30	32.60
	Oxobutyrate <10mmol/l 25°C	U/L	122.26	97.81	-	146.72	12.23	24.45
Iron	**Colorimetric with ppt.(Ferrene)**	µmol/L	16.97	13.92	-	20.03	1.53	3.05
		µg/dl	117.50	95.61	-	139.39	10.94	21.89
	Colorimetric without ppt.(Ferrozine)	µmol/L	21.38	17.53	-	25.23	1.92	3.85
		µg/dl	119.67	98.13	-	141.21	10.77	21.54
HDL Cholesterol (Direct)	**Direct Clearance Method**	mmol/L	1.19	1.01	-	1.37	0.09	0.18
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	Direct HDL Immunoseparation	mmol/L	1.07	0.91	-	1.22	0.08	0.16
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	Vitros dHDL PTA/MgCl2 direct precipitation	mmol/L	1.10	0.94	-	1.27	0.08	0.17
		mg/dl	42.51	36.14	-	48.89	3.19	6.38
	Direct HDL Roche 4th Generation	mmol/L	1.07	0.91	-	1.22	0.08	0.16
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	HDL - Ultra	mmol/L	1.22	1.04	-	1.40	0.09	0.18
		mg/dl	47.03	39.97	-	54.08	3.53	7.05
IgA	**Immunoturbidimetric**	g/l	1.88	1.41	-	2.35	0.23	0.47
		mg/dl	187.84	140.88	-	234.80	23.48	46.96
IgG	**Immunoturbidimetric**	g/l	9.45	7.75	-	11.15	0.85	1.70
		mg/dl	944.92	774.83	-	1115.01	85.04	170.09
IgM	**Immunoturbidimetric**	g/l	0.76	0.61	-	0.91	0.08	0.15
		mg/dl	75.63	60.51	-	90.76	7.56	15.13
Lactate	**Colorimetric Lactate Oxidase**	mmol/L	1.56	1.28	-	1.84	0.14	0.28
		mg/dl	14.07	11.54	-	16.60	1.27	2.53
	Enzymatic Electrode	mmol/L	1.55	1.27	-	1.83	0.14	0.28
		mg/dl	13.94	11.43	-	16.45	1.25	2.51
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	311.95	265.16	-	358.74	23.40	46.79
	P->L Scandinavian & Dutch 25°C	U/L	219.16	186.28	-	252.03	16.44	32.87
	P->L German methods 37°C	U/L	425.02	361.27	-	488.78	31.88	63.75
	P->L German methods 30°C	U/L	303.56	258.03	-	349.09	22.77	45.53
	P->L German methods 25°C	U/L	213.23	181.25	-	245.22	15.99	31.98
	P->L SFBC 37°C	U/L	415.11	352.84	-	477.38	31.13	62.27
	P->L SFBC 30°C	U/L	299.61	254.67	-	344.55	22.47	44.94
	P->L SFBC 25°C	U/L	210.27	178.73	-	241.81	15.77	31.54
	L->P 37°C	U/L	194.50	165.33	-	223.68	14.59	29.18
	L->P 30°C	U/L	140.44	119.38	-	161.51	10.53	21.07
	L->P 25°C	U/L	98.64	83.85	-	113.44	7.40	14.80
LDL Cholesterol Direct	**Direct LDL Immunoseparation**	mmol/L	2.17	1.84	-	2.49	0.16	0.32
		mg/dl	83.58	71.04	-	96.12	6.27	12.54
Lipase	**Other Colorimetric 37°C**	U/L	38.39	30.71	-	46.07	3.84	7.68
	Roche Colorimetric 37°C	U/L	36.00	28.80	-	43.20	3.60	7.20
	Fortress Colorimetric 37°C	U/L	38.30	30.64	-	45.96	3.83	7.66
Lithium	**Ion Selective Electrode**	mmol/L	0.92	0.81	-	1.03	0.06	0.11
		mg/dl	0.64	0.56	-	0.72	0.04	0.08
	Spectrophotometric	mmol/L	0.95	0.83	-	1.06	0.06	0.11
		mg/dl	0.66	0.58	-	0.73	0.04	0.08
Magnesium	**Arsenazo III**	mmol/L	0.87	0.77	-	0.98	0.05	0.10
		mg/dl	2.10	1.85	-	2.35	0.13	0.25
	Calmagite	mmol/L	0.81	0.71	-	0.90	0.05	0.10
		mg/dl	1.88	1.65	-	2.12	0.12	0.23
	Xylidyl Blue	mmol/L	0.83	0.73	-	0.93	0.05	0.10
		mg/dl	2.02	1.78	-	2.27	0.12	0.24
	Methylthymol blue	mmol/L	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	1.97	1.74	-	2.21	0.12	0.24
	Chlorphosphonazo III	mmol/L	0.84	0.74	-	0.95	0.05	0.10
		mg/dl	2.06	1.81	-	2.31	0.12	0.25
	Enzymatic	mmol/L	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	1.99	1.75	-	2.23	0.12	0.24
NEFA	**Colorimetric**	mmol/l	1.35	1.08	-	1.62	0.13	0.27
Osmolality	**Calculated**	mOsm/kg	300.55	240.44	-	360.66	60.11	120.22
	Freezing point depression	mOsm/kg	306.75	245.40	-	368.10	61.35	122.70

Phosphate Inorganic	**Phosphomolybdate enzymatic**	mmol/L	1.53	1.30	-	1.76	0.11	0.23
		mg/dl	4.74	4.03	-	5.45	0.36	0.71
	Phosphomolybdate UV	mmol/L	1.53	1.30	-	1.76	0.11	0.23
		mg/dl	4.74	4.03	-	5.45	0.36	0.71
Potassium	**ISE method - direct**	mmol/L	3.94	3.67	-	4.22	0.14	0.28
	ISE method - indirect	mmol/L	3.94	3.66	-	4.21	0.14	0.28
	Enzymatic	mmol/L	4.07	3.78	-	4.35	0.14	0.28
Protein, Total	**Biuret reaction end point**	g/L	67.46	53.97	-	80.96	6.75	13.49
		g/dl	6.75	5.40	-	8.10	0.67	1.35
	Biuret reaction kinetic	g/L	67.66	54.12	-	81.19	6.77	13.53
		g/dl	6.75	5.40	-	8.10	0.68	1.35
PSA Total	**bioMerieux VIDAS TPSA**	ng/ml	8.51	6.39	-	10.64	1.06	2.13
	Abbott Architect	ng/ml	7.08	5.31	-	8.85	0.89	1.77
	Cobas E411	ng/ml	9.52	7.14	-	11.90	1.19	2.38
	Roche Cobas 6000/8000	ng/ml	9.34	7.01	-	11.68	1.17	2.34
	Siemens Atellica IM	ng/ml	8.26	6.19	-	10.32	1.03	2.06
Sodium	**ISE method - direct**	mmol/L	143.21	136.05	-	150.37	3.58	7.16
	ISE method - indirect	mmol/L	143.43	136.26	-	150.60	3.59	7.17
	Enzymatic	mmol/L	143.37	136.20	-	150.54	3.58	7.17
Thyroid Stimulating Hormone (TSH)	**Abbott Architect**	mIU/L	1.39	1.05	-	1.74	0.17	0.35
	bioMerieux VIDAS TSH	mIU/L	2.00	1.50	-	2.50	0.25	0.50
	Siemens Immulite 2000/2500	mIU/L	1.78	1.33	-	2.22	0.22	0.44
	Siemens Immulite 1000	mIU/L	1.86	1.40	-	2.33	0.23	0.47
	Roche Elecsys	mIU/L	1.87	1.41	-	2.34	0.23	0.47
	Beckman Access Fast TSH	mIU/L	1.74	1.30	-	2.17	0.22	0.43
	Beckman Access hyperTSH 3rd Generation	mIU/L	1.69	1.27	-	2.11	0.21	0.42
	Tosoh Series	mIU/L	1.80	1.35	-	2.25	0.23	0.45
	Vitros ECi	mIU/L	1.69	1.27	-	2.11	0.21	0.42
	Roche Cobas 4000/E411	mIU/L	2.00	1.50	-	2.50	0.25	0.50
	Roche Cobas e601/602	mIU/L	1.99	1.49	-	2.48	0.25	0.50
	Siemens Dimension ExI LOCI	mIU/L	1.63	1.22	-	2.04	0.20	0.41
	Siemens Centaur CP	mIU/L	1.64	1.23	-	2.05	0.21	0.41
	Beckman DxI 600/800 Access (3rd IS)	mIU/L	1.67	1.25	-	2.08	0.21	0.42
	Mindray CL 8000i/6000i/2000i/1200i/1000i	mIU/L	2.26	1.69	-	2.82	0.28	0.56
	Roche Cobas e402/e801	mIU/L	1.92	1.44	-	2.41	0.24	0.48
	Siemens Atellica IM	mIU/L	1.76	1.32	-	2.20	0.22	0.44
TIBC	**Removal of excess free iron**	µmol/L	36.30	29.04	-	43.56	3.63	7.26
		µg/dl	202.68	162.14	-	243.21	20.27	40.54
	FE+UIBC(saturation with iron)	µmol/L	38.28	30.63	-	45.94	3.83	7.66
		µg/dl	214.39	171.51	-	257.27	21.44	42.88
	Direct Colorimetric	µmol/L	39.63	31.71	-	47.56	3.96	7.93
		µg/dl	221.60	177.28	-	265.91	22.16	44.32
	Calculated from Transferrin	µmol/L	38.28	30.63	-	45.94	3.83	7.66
		µg/dl	214.39	171.51	-	257.27	21.44	42.88
	Fortress Direct	µmol/L	45.40	36.32	-	54.48	4.54	9.08
		µg/dl	254.02	203.22	-	304.83	25.40	50.80
Total T3	**Siemens Centaur XP/XPT/Classic**	nmol/l	2.70	2.03	-	3.38	0.34	0.68
		ng/ml	1.75	1.32	-	2.19	0.22	0.44
		ng/dl	175.44	131.58	-	219.31	21.93	43.86
	Roche Cobas 4000/E411	nmol/l	2.83	2.12	-	3.53	0.35	0.71
		ng/ml	1.84	1.38	-	2.29	0.23	0.46
		ng/dl	183.52	137.64	-	229.40	22.94	45.88
	Abbott Architect	nmol/l	2.86	2.14	-	3.57	0.36	0.71
		ng/ml	1.82	1.37	-	2.28	0.23	0.46
		ng/dl	182.23	136.67	-	227.79	22.78	45.56
	Fortress ELISA / CLIA	nmol/l	2.72	2.04	-	3.41	0.34	0.68
		ng/ml	1.78	1.33	-	2.22	0.22	0.44
		ng/dl	177.75	133.31	-	222.19	22.22	44.44
Total T4	**Siemens Centaur XP/XPT/Classic**	nmol/l	93.47	70.11	-	116.84	11.68	23.37
		ng/ml	7.29	5.47	-	9.11	0.91	1.82
		ng/dl	72.89	54.67	-	91.12	9.11	18.22
	Roche Cobas 4000/E411	nmol/l	94.44	70.83	-	118.05	11.80	23.61
		ng/ml	7.37	5.52	-	9.21	0.92	1.84
		ng/dl	73.66	55.25	-	92.08	9.21	18.42
	Abbott Architect	nmol/l	88.67	66.50	-	110.83	11.08	22.17
		ng/ml	6.91	5.19	-	8.64	0.86	1.73
		ng/dl	69.14	51.86	-	86.43	8.64	17.29
	Fortress ELISA / CLIA	nmol/l	89.82	67.37	-	112.28	11.23	22.46
		ng/ml	7.01	5.26	-	8.76	0.88	1.75
		ng/dl	70.11	52.58	-	87.63	8.76	17.53

Transferrin	Immunoturbidimetric	g/l	2.22	1.78	-	2.67	0.22	0.44
		mg/dl	222.09	177.68	-	266.51	22.21	44.42
Triglycerides	Lipase/GPO-PAP no correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.94	88.35	-	119.53	7.80	15.59
	Lipase/GPO-PAP 0.11mmol/l correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.91	88.33	-	119.50	7.79	15.59
	L/G Kinase EP. no correction	mmol/L	1.16	0.98	-	1.33	0.09	0.17
		mg/dl	102.54	87.16	-	117.92	7.69	15.38
	L/G kinase EP. 0.11 mmol/l correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.91	88.33	-	119.50	7.79	15.59
	Lipase/Glycerol Dehydrogenase	mmol/L	1.15	0.98	-	1.32	0.09	0.17
		mg/dl	101.80	86.53	-	117.07	7.63	15.27
Urea	Urease end point	mmol/L	7.43	6.31	-	8.54	0.56	1.11
		mg/dl	44.61	37.94	-	51.28	3.33	6.67
	Urease kinetic	mmol/L	7.40	6.29	-	8.51	0.56	1.11
		mg/dl	44.50	37.83	-	51.18	3.34	6.68
	BUN	mmol/L	7.40	6.29	-	8.51	0.56	1.11
		mg/dl	20.77	17.66	-	23.89	1.56	3.12
Uric Acid	Uricase catalase 340nm	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.82	5.93	-	7.71	0.44	0.89
	Uricase peroxidase with ascorbate oxidase	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.83	5.94	-	7.72	0.44	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.85	5.96	-	7.74	0.44	0.89
	Spectrophotometric at 280-290	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.92	-	7.69	0.44	0.89
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.93	-	7.70	0.44	0.89
Vitamin B12	Roche Cobas e402/e801	pmol/L	468.46	351.35	-	585.58	58.56	117.12
		pg/ml	634.80	476.10	-	793.50	79.35	158.70
Zinc	Colorimetric with deproteinisation	µmol/L	28.75	23.00	-	34.50	2.87	5.75
		µg/dl	187.60	150.08	-	225.12	18.76	37.52
	Colorimetric without deprot.	µmol/L	28.10	22.48	-	33.72	2.81	5.62
		µg/dl	183.54	146.83	-	220.25	18.35	36.71

METHOD **LOT NO.** HSN106 **EXP.** Jun-29

THERAPEUTIC DRUGS

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Digoxin	Immunoturbidimetric	µg/L	1.60	1.28	-	1.92	0.16	0.32
		nmol/L	2.05	1.64	-	2.46	0.20	0.41
Gentamycin	Gravimetric	mg/L	3.60	2.88	-	4.32	0.36	0.72
		µmol/L	7.54	6.03	-	9.05	0.75	1.51
Paracetamol	Gravimetric	mg/L	13.00	10.40	-	15.60	1.30	2.60
		µmol/L	86.00	68.80	-	103.20	8.60	17.20
Salicylate	Gravimetric	mg/L	60.00	48.00	-	72.00	6.00	12.00
		mmol/L	0.43	0.35	-	0.52	0.04	0.09
Theophylline	Gravimetric	mg/L	5.10	4.08	-	6.12	0.51	1.02
		µmol/L	28.31	22.65	-	33.97	2.83	5.66
Tobramycin	Gravimetric	mg/L	2.90	2.32	-	3.48	0.29	0.58
		µmol/L	6.20	4.96	-	7.44	0.62	1.24

MONARCH SERIES **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Total Acid Phosphatase	Naphtyl Phosphate, Kinetic 37°C	U/L	18.90	12.47	-	25.33	3.21	6.43
Albumin	Bromocresol Green	g/L	46.00	39.10	-	52.90	3.45	6.90
		g/dl	4.60	3.91	-	5.29	0.35	0.69
	Bromocresol Purple	g/L	47.03	39.97	-	54.08	3.53	7.05
		g/dl	4.70	4.00	-	5.41	0.35	0.71
	Turbidimetric / Turbilatex	g/L	46.57	39.59	-	53.56	3.49	6.99
		g/dl	4.66	3.96	-	5.36	0.35	0.70

Alkaline Phosphatase	**Diethanolamine buffer DEA 37°C**	U/L	420.40	357.34	-	483.46	31.53	63.06
	Diethanolamine buffer DEA 30°C	U/L	327.47	297.30	-	357.64	15.09	30.17
	Diethanolamine buffer DEA 25°C	U/L	267.73	243.06	-	292.40	12.33	24.67
	AMP optimised to IFCC 37°C	U/L	258.25	219.51	-	296.98	19.37	38.74
	AMP optimised to IFCC 30°C	U/L	201.16	170.99	-	231.34	15.09	30.17
	AMP optimised to IFCC 25°C	U/L	164.46	139.79	-	189.13	12.33	24.67
	AMP non-optimised 37°C	U/L	260.97	221.82	-	300.11	19.57	39.14
	AMP non-optimised 30°C	U/L	203.28	173.10	-	233.45	15.09	30.17
	AMP non-optimised 25°C	U/L	166.19	141.52	-	190.86	12.33	24.67
	Colorimetric 37°C	U/L	247.37	210.27	-	284.48	18.55	37.11
	Colorimetric 30°C	U/L	192.69	162.52	-	222.87	15.09	30.17
	Colorimetric 25°C	U/L	157.54	132.87	-	182.21	12.33	24.67
ALT (GPT)	**Colorimetric 37°C**	U/L	45.05	36.04	-	54.06	4.50	9.01
	Colorimetric 30°C	U/L	32.96	26.37	-	39.55	3.30	6.59
	Colorimetric 25°C	U/L	25.27	20.22	-	30.32	2.53	5.05
	Tris buffer with P5P 37°C	U/L	46.15	36.92	-	55.38	4.61	9.23
	Tris buffer with P5P 30°C	U/L	34.06	27.25	-	40.87	3.41	6.81
	Tris buffer with P5P 25°C	U/L	26.37	21.10	-	31.64	2.64	5.27
	Tris buffer without P5P 37°C	U/L	42.85	34.28	-	51.42	4.29	8.57
	Tris buffer without P5P 30°C	U/L	31.86	25.49	-	38.24	3.19	6.37
	Tris buffer without P5P 25°C	U/L	24.17	19.34	-	29.01	2.42	4.83
Amylase (Pancreatic)	**Immunoinhibition EPS SUBSTRATE 37°C**	U/L	70.70	60.09	-	81.30	5.30	10.60
	Roche EPS Liquid Stable 37°C	U/L	69.50	59.08	-	79.93	5.21	10.43
	Fortress Ethylidene pNPG7 Liquid Stable 37°C	U/L	79.09	67.22	-	90.95	5.93	11.86
Amylase (TOTAL)	**pNP Maltotrioside substrate 37°C**	U/L	105.77	89.90	-	121.63	7.93	15.87
	blocked pNPG7 37°C	U/L	114.38	97.22	-	131.53	8.58	17.16
	Fortress Ethylidene pNPG7 Lyophilised 37°C	U/L	112.70	95.80	-	129.61	8.45	16.91
	Fortress Ethylidene pNPG7 Liquid Stable 37°C	U/L	112.70	95.80	-	129.61	8.45	16.91
	BM/ROCHE Colourimetric pNPG7 37°C	U/L	103.31	87.81	-	118.81	7.75	15.50
	ROCHE Integra 2-chloro-pNPG7 37°C	U/L	103.31	87.81	-	118.81	7.75	15.50
	ROCHE 2-chloro-pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
	ROCHE Liquid stable pNPG7 37°C	U/L	103.31	87.81	-	118.81	7.75	15.50
	Siemens 2-chloro-pNPG7 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Beckman Coulter - blocked pNPG7 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Beckman Synchron AMY7 37°C	U/L	108.23	91.99	-	124.46	8.12	16.23
	Abbott Architect Non-IFCC 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
	Abbott Architect IFCC 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Beckman CNPG3 (Extinction Coeff) 37°C	U/L	94.70	80.50	-	108.91	7.10	14.21

Apo-A1	**Immunoturbidimetric**	g/l	1.26	1.04	-	1.47	0.11	0.21
		mg/dl	125.84	104.45	-	147.23	10.70	21.39
Apo-B	**Immunoturbidimetric**	g/l	0.77	0.64	-	0.90	0.07	0.13
		mg/dl	76.54	63.53	-	89.55	6.51	13.01
AST (GOT)	**Colorimetric 37°C**	U/L	43.27	34.62	-	51.92	4.33	8.65
	Colorimetric 30°C	U/L	29.27	23.42	-	35.13	2.93	5.85
	Colorimetric 25°C	U/L	20.36	16.29	-	24.43	2.04	4.07
	Tris buffer without P5P 37°C	U/L	43.27	34.62	-	51.92	4.33	8.65
	Tris buffer without P5P 30°C	U/L	29.27	23.42	-	35.13	2.93	5.85
	Tris buffer without P5P 25°C	U/L	20.36	16.29	-	24.43	2.04	4.07
	Tris buffer with P5P NVKC 37°C	U/L	44.54	35.63	-	53.45	4.45	8.91
	Tris buffer with P5P NVKC 30°C	U/L	30.54	24.43	-	36.65	3.05	6.11
	Tris buffer with P5P NVKC 25°C	U/L	21.64	17.31	-	25.96	2.16	4.33
Bicarbonate	**Colorimetric**	mmol/L	14.86	11.89	-	17.84	1.49	2.97
	Enzymatic	mmol/L	15.46	12.37	-	18.55	1.55	3.09
Bile Acids	**4th Generation Colorimetric**	umol/L	24.77	19.81	-	29.72	2.48	4.95
	5th Generation Colorimetric	umol/L	26.99	21.59	-	32.39	2.70	5.40
Bilirubin, Direct	**Diazo with Sulphanilic Acid**	µmol/L	29.68	23.75	-	35.62	2.97	5.94
		mg/dl	1.73	1.38	-	2.08	0.17	0.35
	Diazo with Dichloroaniline (DCA)	µmol/L	29.68	23.75	-	35.62	2.97	5.94
		mg/dl	1.73	1.38	-	2.08	0.17	0.35
	Oxidation to Biliverdin/Vanadate	µmol/L	33.30	26.64	-	39.96	3.33	6.66
		mg/dl	1.63	1.30	-	1.95	0.16	0.33
	Modified Jendrassik	µmol/L	26.70	21.36	-	32.04	2.67	5.34
		mg/dl	1.57	1.25	-	1.88	0.16	0.31
Bilirubin, Total	**Diazo with Dichloroaniline (DCA)**	µmol/L	28.19	22.55	-	33.83	2.82	5.64
		mg/dl	1.65	1.32	-	1.98	0.16	0.33
	Diazo with Sulphanilic Acid	µmol/L	29.95	23.96	-	35.93	2.99	5.99
		mg/dl	1.76	1.40	-	2.11	0.18	0.35
	Dichlorophenyl Diazonium (DPD)	µmol/L	27.31	21.85	-	32.77	2.73	5.46
		mg/dl	1.60	1.28	-	1.92	0.16	0.32
	Nitrobenzenediazonium salt	µmol/L	25.65	20.52	-	30.78	2.57	5.13
		mg/dl	1.50	1.20	-	1.80	0.15	0.30
	Diazonium ion	µmol/L	26.63	21.30	-	31.95	2.66	5.33
		mg/dl	1.56	1.25	-	1.87	0.16	0.31
	Oxidation to Biliverdin/Vanadate	µmol/L	39.30	31.44	-	47.16	3.93	7.86
		mg/dl	1.82	1.46	-	2.19	0.18	0.36
	Modified Jendrassik	µmol/L	34.43	27.55	-	41.32	3.44	6.89
		mg/dl	2.02	1.62	-	2.42	0.20	0.40
Calcium	**Cresolphthalein complexone**	mmol/L	2.29	2.07	-	2.52	0.11	0.23
		mg/dl	9.20	8.28	-	10.12	0.46	0.92
	Ion selective electrode	mmol/L	2.36	2.12	-	2.60	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	Arsenazo III	mmol/L	2.37	2.13	-	2.61	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	NM-BAPTA	mmol/L	2.39	2.15	-	2.63	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
Chloride	**ISE direct**	mmol/L	96.03	89.30	-	102.75	3.36	6.72
	ISE indirect	mmol/L	94.79	88.15	-	101.43	3.32	6.64
Cholesterol	**Cholesterol Oxidase - Abell Kendall**	mmol/L	4.30	3.74	-	4.86	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
	Cholesterol Oxidase - IDMS	mmol/L	4.28	3.72	-	4.84	0.28	0.56
		mg/dl	164.87	143.43	-	186.30	10.72	21.43
	Cholesterol Dehydrogenase	mmol/L	4.28	3.72	-	4.84	0.28	0.56
		mg/dl	164.87	143.43	-	186.30	10.72	21.43
Cholinesterase	**Butyrylthiocholine (Colourimetric) 37°C**	U/L	7433.20	5946.56	-	8919.84	743.32	1486.64
CK-Nac	**CK-NAC serum start (DGKC) 37°C**	U/L	258.76	227.71	-	289.82	15.53	31.05
	CK-NAC serum start (DGKC) 30°C	U/L	161.38	142.01	-	180.75	9.68	19.37
	CK-NAC serum start (DGKC) 25°C	U/L	109.91	96.72	-	123.09	6.59	13.19
	CK-NAC substrate start (DGKC) 37°C	U/L	257.37	226.49	-	288.26	15.44	30.88
	CK-NAC substrate start (DGKC) 30°C	U/L	161.38	142.01	-	180.75	9.68	19.37
	CK-NAC substrate start (DGKC) 25°C	U/L	109.91	96.72	-	123.09	6.59	13.19
	CK-NAC (IFCC) 37°C	U/L	253.20	222.82	-	283.58	15.19	30.38
	CK-NAC (IFCC) 30°C	U/L	158.60	139.57	-	177.63	9.52	19.03
	CK-NAC (IFCC) 25°C	U/L	107.12	94.27	-	119.98	6.43	12.85
Copper	**Atomic absorption**	µmol/L	19.55	15.64	-	23.46	1.96	3.91
		µg/dl	124.76	99.81	-	149.71	12.48	24.95
	Colorimetric	µmol/L	18.90	15.12	-	22.68	1.89	3.78
		µg/dl	120.10	96.08	-	144.12	12.01	24.02
Cortisol	**Roche Cobas e402/e801**	nmol/L	533.80	400.35	-	667.25	66.73	133.45
		µg/dl	19.21	14.41	-	24.02	2.40	4.80

Creatinine	**Alkaline picrate with deproteinization**	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.39	1.12	-	1.67	0.14	0.28
	Alkaline picrate no deproteinization	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Enzymatic UV method	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.39	1.12	-	1.67	0.14	0.28
	Creatinine PAP method	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Jaffe rate blanked	µmol/L	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/L	123.00	98.40	-	147.60	12.30	24.60
		mg/dl	1.39	1.12	-	1.67	0.14	0.28
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/L	118.90	95.12	-	142.68	11.89	23.78
		mg/dl	1.34	1.07	-	1.61	0.13	0.27
	IDMS traceable	µmol/L	117.88	94.30	-	141.45	11.79	23.58
		mg/dl	1.33	1.07	-	1.60	0.13	0.27
D3-Hydroxybutyrate	**Tris Buffer pH 8.5**	mmol/L	0.39	0.33	-	0.45	0.03	0.06
Folate	**Roche Cobas e402/e801**	nmol/l	16.53	12.40	-	20.66	2.07	4.13
		ng/ml	7.31	5.48	-	9.13	0.91	1.83
Free T3	**Roche Cobas e402/e801**	pg/ml	5.33	3.99	-	6.66	0.67	1.33
		ng/dl	0.53	0.40	-	0.67	0.07	0.13
		pmol/L	8.18	6.14	-	10.23	1.02	2.05
Free T4	**Abbott Architect**	pmol/l	13.97	10.48	-	17.46	1.75	3.49
		ng/dl	1.09	0.82	-	1.37	0.14	0.27
		pg/ml	10.93	8.20	-	13.66	1.37	2.73
	Siemens Centaur XP/XPT/Classic	pmol/l	15.28	11.46	-	19.10	1.91	3.82
		ng/dl	1.19	0.89	-	1.49	0.15	0.30
		pg/ml	11.91	8.94	-	14.89	1.49	2.98
	Siemens Immulite 2000/2500	pmol/l	17.09	12.82	-	21.36	2.14	4.27
		ng/dl	1.33	1.00	-	1.66	0.17	0.33
		pg/ml	13.31	9.98	-	16.64	1.66	3.33
	Siemens Immulite 1000	pmol/l	17.67	13.25	-	22.08	2.21	4.42
		ng/dl	1.38	1.04	-	1.73	0.17	0.35
		pg/ml	13.80	10.35	-	17.26	1.73	3.45
	Beckman DxI800	pmol/l	14.30	10.72	-	17.87	1.79	3.57
		ng/dl	1.12	0.84	-	1.40	0.14	0.28
		pg/ml	11.17	8.38	-	13.97	1.40	2.79
	Beckman Access	pmol/l	15.12	11.34	-	18.90	1.89	3.78
		ng/dl	1.18	0.89	-	1.48	0.15	0.30
		pg/ml	11.83	8.87	-	14.79	1.48	2.96
	Tosoh Series	pmol/l	20.13	15.10	-	25.16	2.52	5.03
		ng/dl	1.57	1.18	-	1.96	0.20	0.39
		pg/ml	15.69	11.77	-	19.62	1.96	3.92
	Vitros ECi	pmol/l	28.02	21.01	-	35.02	3.50	7.00
		ng/dl	2.19	1.64	-	2.73	0.27	0.55
		pg/ml	21.86	16.39	-	27.32	2.73	5.46
	Roche Cobas 4000/E411	pmol/l	17.83	13.37	-	22.29	2.23	4.46
		ng/dl	1.39	1.04	-	1.74	0.17	0.35
		pg/ml	13.89	10.41	-	17.36	1.74	3.47
	Roche Cobas e601/602	pmol/l	17.42	13.06	-	21.77	2.18	4.35
		ng/dl	1.36	1.02	-	1.69	0.17	0.34
		pg/ml	13.56	10.17	-	16.95	1.69	3.39
	Biomerieux Vidas FT4N Kit	pmol/l	17.01	12.76	-	21.26	2.13	4.25
		ng/dl	1.32	0.99	-	1.65	0.17	0.33
		pg/ml	13.23	9.92	-	16.54	1.65	3.31
	Siemens Dimension ExI LOCI	pmol/l	16.43	12.33	-	20.54	2.05	4.11
		ng/dl	1.28	0.96	-	1.60	0.16	0.32
		pg/ml	12.82	9.61	-	16.02	1.60	3.20
	Siemens Centaur CP	pmol/l	15.69	11.77	-	19.62	1.96	3.92
		ng/dl	1.22	0.92	-	1.53	0.15	0.31
		pg/ml	12.24	9.18	-	15.30	1.53	3.06
	Fujirebio Lumipulse G Series	pmol/l	13.48	10.11	-	16.84	1.68	3.37
		ng/dl	1.05	0.79	-	1.31	0.13	0.26
		pg/ml	10.52	7.89	-	13.15	1.31	2.63
	Mindray CL 8000i/6000i/2000i/1200i/1000i	pmol/l	13.89	10.41	-	17.36	1.74	3.47
		ng/dl	1.08	0.81	-	1.36	0.14	0.27
		pg/ml	10.85	8.13	-	13.56	1.36	2.71
	Roche Cobas e402/e801	pmol/l	18.72	14.04	-	23.40	2.34	4.68
		ng/dl	1.45	1.09	-	1.82	0.18	0.36
		pg/mL	14.54	10.91	-	18.18	1.82	3.64

Gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	54.42	46.26	-	62.58	4.08	8.16
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	43.13	36.66	-	49.59	3.23	6.47
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	33.88	28.80	-	38.97	2.54	5.08
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	57.50	48.88	-	66.13	4.31	8.63
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	45.18	38.40	-	51.96	3.39	6.78
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	35.94	30.55	-	41.33	2.70	5.39
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	63.66	54.11	-	73.21	4.77	9.55
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	50.31	42.77	-	57.86	3.77	7.55
	Fortress Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	39.02	33.17	-	44.87	2.93	5.85
GLDH	Triethanolamine buffer 50 mmol 37°C	U/L	34.14	25.61	-	42.68	4.27	8.54
	Triethanolamine buffer 50 mmol 30°C	U/L	25.61	19.21	-	32.01	3.20	6.40
	Triethanolamine buffer 50 mmol 25°C	U/L	21.34	16.00	-	26.67	2.67	5.33
Glucose	Glucose dehydrogenase	mmol/L	6.51	5.54	-	7.49	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
	Hexokinase	mmol/L	6.35	5.40	-	7.30	0.48	0.95
		mg/dl	114.00	96.90	-	131.10	8.55	17.10
	Glucose oxidase	mmol/L	6.53	5.55	-	7.50	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
α-HBDH	Oxobutyrate <10mmol/l 37°C	U/L	215.70	172.56	-	258.84	21.57	43.14
	Oxobutyrate <10mmol/l 30°C	U/L	163.02	130.41	-	195.62	16.30	32.60
	Oxobutyrate <10mmol/l 25°C	U/L	122.26	97.81	-	146.72	12.23	24.45
Iron	Colorimetric with ppt.(Ferrene)	µmol/L	16.97	13.92	-	20.03	1.53	3.05
		µg/dl	94.78	73.29	-	116.27	10.75	21.49
	Colorimetric without ppt.(Ferrozine)	µmol/L	21.38	17.53	-	25.23	1.92	3.85
		µg/dl	119.39	97.90	-	140.88	10.75	21.49
HDL Cholesterol (Direct)	Direct Clearance Method	mmol/L	1.19	1.01	-	1.37	0.09	0.18
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	Direct HDL Immunoseparation	mmol/L	1.07	0.91	-	1.22	0.08	0.16
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	Vitros dHDL PTA/MgCl2 direct precipitation	mmol/L	1.10	0.94	-	1.27	0.08	0.17
		mg/dl	42.51	36.14	-	48.89	3.19	6.38
	Direct HDL Roche 4th Generation	mmol/L	1.07	0.91	-	1.22	0.08	0.16
		mg/dl	41.07	34.91	-	47.23	3.08	6.16
	HDL - Ultra	mmol/L	1.22	1.04	-	1.40	0.09	0.18
		mg/dl	47.03	39.97	-	54.08	3.53	7.05
IgA	Immunoturbidimetric	g/l	1.88	1.41	-	2.35	0.23	0.47
		mg/dl	187.84	140.88	-	234.80	23.48	46.96
IgG	Immunoturbidimetric	g/l	9.45	7.75	-	11.15	0.85	1.70
		mg/dl	944.92	774.83	-	1115.01	85.04	170.09
IgM	Immunoturbidimetric	g/l	0.76	0.61	-	0.91	0.08	0.15
		mg/dl	75.63	60.51	-	90.76	7.56	15.13
Lactate	Colorimetric Lactate Oxidase	mmol/L	1.58	1.30	-	1.87	0.14	0.29
		mg/dl	14.26	11.69	-	16.82	1.28	2.57
	Enzymatic Electrode	mmol/L	1.55	1.27	-	1.83	0.14	0.28
		mg/dl	13.94	11.43	-	16.45	1.25	2.51
LDH P-L LACTATE DEHYDROGENASE	P->L Scandinavian & Dutch 37°C	U/L	431.40	366.69	-	496.11	32.36	64.71
	P->L Scandinavian & Dutch 30°C	U/L	311.95	265.16	-	358.74	23.40	46.79
	P->L Scandinavian & Dutch 25°C	U/L	219.16	186.28	-	252.03	16.44	32.87
	P->L German methods 37°C	U/L	414.62	352.43	-	476.81	31.10	62.19
	P->L German methods 30°C	U/L	299.12	254.25	-	343.98	22.43	44.87
	P->L German methods 25°C	U/L	210.27	178.73	-	241.81	15.77	31.54
	P->L SFBC 37°C	U/L	428.44	364.17	-	492.70	32.13	64.27
	P->L SFBC 30°C	U/L	308.99	262.64	-	355.34	23.17	46.35
	P->L SFBC 25°C	U/L	217.18	184.60	-	249.76	16.29	32.58
	L->P 37°C	U/L	194.50	165.33	-	223.68	14.59	29.18
	L->P 30°C	U/L	140.44	119.38	-	161.51	10.53	21.07
	L->P 25°C	U/L	98.64	83.85	-	113.44	7.40	14.80
LDL Cholesterol Direct	Direct LDL Immunoseparation	mmol/L	2.17	1.84	-	2.49	0.16	0.32
		mg/dl	83.58	71.04	-	96.12	6.27	12.54
Lipase	Other Colorimetric 37°C	U/L	38.17	30.54	-	45.81	3.82	7.63
	Roche Colorimetric 37°C	U/L	36.02	28.81	-	43.22	3.60	7.20
	Fortress Colorimetric 37°C	U/L	38.20	30.56	-	45.84	3.82	7.64
Lithium	Ion Selective Electrode	mmol/L	0.94	0.82	-	1.05	0.06	0.11
		mg/dl	0.65	0.57	-	0.73	0.04	0.08
	Spectrophotometric	mmol/L	0.95	0.83	-	1.06	0.06	0.11
		mg/dl	0.66	0.58	-	0.73	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	0.81	0.71	-	0.90	0.05	0.10
		mg/dl	1.88	1.65	-	2.12	0.12	0.23
	Xylidyl Blue	mmol/L	0.84	0.74	-	0.94	0.05	0.10
		mg/dl	2.03	1.79	-	2.27	0.12	0.24
	Methylthymol blue	mmol/L	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	1.96	1.72	-	2.20	0.12	0.24
	Chlorphosphonazo III	mmol/L	0.84	0.74	-	0.95	0.05	0.10
		mg/dl	2.07	1.83	-	2.32	0.12	0.25
	Enzymatic	mmol/L	0.83	0.73	-	0.93	0.05	0.10
		mg/dl	2.00	1.76	-	2.24	0.12	0.24
NEFA	**Colorimetric**	mmol/l	1.35	1.08	-	1.62	0.13	0.27
Osmolality	**Calculated**	mOsm/kg	300.55	240.44	-	360.66	60.11	120.22
	Freezing point depression	mOsm/kg	306.75	245.40	-	368.10	61.35	122.70
Phosphate Inorganic	**Phosphomolybdate enzymatic**	mmol/L	1.50	1.27	-	1.72	0.11	0.22
		mg/dl	4.64	3.94	-	5.34	0.35	0.70
	Phosphomolybdate UV	mmol/L	1.51	1.28	-	1.73	0.11	0.23
		mg/dl	4.67	3.97	-	5.37	0.35	0.70
Potassium	**ISE method - direct**	mmol/L	4.01	3.73	-	4.29	0.14	0.28
	ISE method - indirect	mmol/L	4.29	3.99	-	4.59	0.15	0.30
	Enzymatic	mmol/L	4.07	3.78	-	4.35	0.14	0.28
Protein, Total	**Biuret reaction end point**	g/L	67.50	54.00	-	81.00	6.75	13.50
		g/dl	6.75	5.40	-	8.10	0.68	1.35
	Biuret reaction kinetic	g/L	67.03	53.63	-	80.44	6.70	13.41
		g/dl	6.66	5.32	-	8.00	0.67	1.34
PSA Total	**bioMerieux VIDAS TPSA**	ng/ml	8.51	6.39	-	10.64	1.06	2.13
	Abbott Architect	ng/ml	7.08	5.31	-	8.85	0.89	1.77
	Cobas E411	ng/ml	9.52	7.14	-	11.90	1.19	2.38
	Roche Cobas 6000/8000	ng/ml	9.34	7.01	-	11.68	1.17	2.34
	Siemens Atellica IM	ng/ml	8.26	6.19	-	10.32	1.03	2.06
Sodium	**ISE method - direct**	mmol/L	145.11	137.86	-	152.37	3.63	7.26
	ISE method - indirect	mmol/L	147.20	139.84	-	154.56	3.68	7.36
	Enzymatic	mmol/L	143.34	136.17	-	150.51	3.58	7.17
Thyroid Stimulating Hormone (TSH)	**Abbott Architect**	mIU/L	1.39	1.05	-	1.74	0.17	0.35
	bioMerieux VIDAS TSH	mIU/L	2.00	1.50	-	2.50	0.25	0.50
	Siemens Immulite 2000/2500	mIU/L	1.78	1.33	-	2.22	0.22	0.44
	Siemens Immulite 1000	mIU/L	1.86	1.40	-	2.33	0.23	0.47
	Roche Elecsys	mIU/L	1.87	1.41	-	2.34	0.23	0.47
	Beckman Access Fast TSH	mIU/L	1.74	1.30	-	2.17	0.22	0.43
	Beckman Access hyperTSH 3rd Generation	mIU/L	1.69	1.27	-	2.11	0.21	0.42
	Tosoh Series	mIU/L	1.80	1.35	-	2.25	0.23	0.45
	Vitros ECi	mIU/L	1.69	1.27	-	2.11	0.21	0.42
	Roche Cobas 4000/E411	mIU/L	2.00	1.50	-	2.50	0.25	0.50
	Roche Cobas e601/602	mIU/L	1.99	1.49	-	2.48	0.25	0.50
	Siemens Dimension ExI LOCI	mIU/L	1.63	1.22	-	2.04	0.20	0.41
	Siemens Centaur CP	mIU/L	1.64	1.23	-	2.05	0.21	0.41
	Beckman DxI 600/800 Access (3rd IS)	mIU/L	1.67	1.25	-	2.08	0.21	0.42
	Mindray CL 8000i/6000i/2000i/1200i/1000i	mIU/L	2.26	1.69	-	2.82	0.28	0.56
	Roche Cobas e402/e801	mIU/L	1.92	1.44	-	2.41	0.24	0.48
	Siemens Atellica IM	mIU/L	1.76	1.32	-	2.20	0.22	0.44
TIBC	**Removal of excess free iron**	µmol/L	36.30	29.04	-	43.56	3.63	7.26
		µg/dl	202.68	162.14	-	243.21	20.27	40.54
	FE+UIBC(saturation with iron)	µmol/L	38.28	30.63	-	45.94	3.83	7.66
		µg/dl	214.39	171.51	-	257.27	21.44	42.88
	Direct Colorimetric	µmol/L	39.63	31.71	-	47.56	3.96	7.93
		µg/dl	221.60	177.28	-	265.91	22.16	44.32
	Calculated from Transferrin	µmol/L	38.28	30.63	-	45.94	3.83	7.66
		µg/dl	214.39	171.51	-	257.27	21.44	42.88
	Fortress Direct	µmol/L	45.40	36.32	-	54.48	4.54	9.08
		µg/dl	254.02	203.22	-	304.83	25.40	50.80

Total T3	**Siemens Centaur XP/XPT/Classic**	nmol/l	2.70	2.03	-	3.38	0.34	0.68
		ng/ml	1.75	1.32	-	2.19	0.22	0.44
		ng/dl	175.44	131.58	-	219.31	21.93	43.86
	Roche Cobas 4000/E411	nmol/l	2.83	2.12	-	3.53	0.35	0.71
		ng/ml	1.84	1.38	-	2.29	0.23	0.46
		ng/dl	183.52	137.64	-	229.40	22.94	45.88
	Abbott Architect	nmol/l	2.86	2.14	-	3.57	0.36	0.71
		ng/ml	1.82	1.37	-	2.28	0.23	0.46
		ng/dl	182.23	136.67	-	227.79	22.78	45.56
	Fortress ELISA / CLIA	nmol/l	2.72	2.04	-	3.41	0.34	0.68
		ng/ml	1.78	1.33	-	2.22	0.22	0.44
		ng/dl	177.75	133.31	-	222.19	22.22	44.44
Total T4	**Siemens Centaur XP/XPT/Classic**	nmol/l	93.47	70.11	-	116.84	11.68	23.37
		ng/ml	7.29	5.47	-	9.11	0.91	1.82
		ng/dl	72.89	54.67	-	91.12	9.11	18.22
	Roche Cobas 4000/E411	nmol/l	94.44	70.83	-	118.05	11.80	23.61
		ng/ml	7.37	5.52	-	9.21	0.92	1.84
		ng/dl	73.66	55.25	-	92.08	9.21	18.42
	Abbott Architect	nmol/l	88.67	66.50	-	110.83	11.08	22.17
		ng/ml	6.91	5.19	-	8.64	0.86	1.73
		ng/dl	69.14	51.86	-	86.43	8.64	17.29
	Fortress ELISA / CLIA	nmol/l	89.82	67.37	-	112.28	11.23	22.46
		ng/ml	7.01	5.26	-	8.76	0.88	1.75
		ng/dl	70.11	52.58	-	87.63	8.76	17.53
Transferrin	**Immunoturbidimetric**	g/l	2.22	1.78	-	2.67	0.22	0.44
		mg/dl	222.09	177.68	-	266.51	22.21	44.42
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/L	1.16	0.99	-	1.34	0.09	0.17
		mg/dl	103.07	87.61	-	118.53	7.73	15.46
	Lipase/GPO-PAP 0.11mmol/l correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.91	88.33	-	119.50	7.79	15.59
	L/G Kinase EP. no correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.91	88.33	-	119.50	7.79	15.59
	L/G kinase EP. 0.11 mmol/l correction	mmol/L	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.91	88.33	-	119.50	7.79	15.59
	Lipase/Glycerol Dehydrogenase	mmol/L	1.16	0.99	-	1.34	0.09	0.17
		mg/dl	103.07	87.61	-	118.53	7.73	15.46
Urea	**Urease end point**	mmol/L	7.41	6.30	-	8.52	0.56	1.11
		mg/dl	44.51	37.88	-	51.14	3.32	6.63
	Urease kinetic	mmol/L	7.36	6.26	-	8.46	0.55	1.10
		mg/dl	44.20	37.57	-	50.83	3.32	6.63
	BUN	mmol/L	7.36	6.26	-	8.46	0.55	1.10
		mg/dl	20.61	17.52	-	23.70	1.55	3.09
Uric Acid	**Uricase catalase 340nm**	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.82	5.93	-	7.71	0.44	0.89
	Uricase peroxidase with ascorbate oxidase	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.87	5.98	-	7.76	0.45	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.88	5.99	-	7.78	0.45	0.89
	Spectrophotometric at 280-290	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.92	-	7.69	0.44	0.89
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/L	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.79	5.90	-	7.67	0.44	0.88
Vitamin B12	**Roche Cobas e402/e801**	pmol/L	468.46	351.35	-	585.58	58.56	117.12
		pg/ml	634.80	476.10	-	793.50	79.35	158.70
Zinc	**Colorimetric with deproteinisation**	µmol/L	28.75	23.00	-	34.50	2.87	5.75
		µg/dl	187.60	150.08	-	225.12	18.76	37.52
	Colorimetric without deprot.	µmol/L	28.10	22.48	-	33.72	2.81	5.62
		µg/dl	183.54	146.83	-	220.25	18.35	36.71

ABBOTT ALINITY / ARCHITECT C / CI SYSTEMS **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	46.00	39.10	-	52.90	3.45	6.90
		g/dl	4.60	3.91	-	5.29	0.35	0.69
	Bromocresol Purple	g/l	46.34	39.39	-	53.29	3.48	6.95
		g/dl	4.63	3.94	-	5.33	0.35	0.70
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/L	254.17	216.04	-	292.30	19.06	38.13
	AMP non-optimised 37°C	U/L	250.09	212.58	-	287.61	18.76	37.51
ALT (GPT)	Tris buffer without P5P 37°C	U/L	42.85	34.28	-	51.42	4.29	8.57
Amylase Pancreatic	Immunoinhibition EPS substrate 37°C	U/L	70.70	60.09	-	81.30	5.30	10.60
Amylase Total	Abbott Architect Non-IFCC Cal. 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
	Abbott Architect IFCC Cal. 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
AST (GOT)	Tris buffer without P5P 37°C	U/L	43.27	34.62	-	51.92	4.33	8.65
Bicarbonate	Enzymatic	mmol/l	13.44	10.75	-	16.12	1.34	2.69
Bile Acids	Enzymatic Colorimetric	µmol/l	29.21	23.37	-	35.05	2.92	5.84
Bilirubin Direct	Diazo with Sulphanilic Acid	µmol/l	28.41	22.73	-	34.10	2.84	5.68
		mg/dl	1.66	1.33	-	1.99	0.17	0.33
	Diazo with Dichloroaniline (DCA)	µmol/l	28.27	22.62	-	33.92	2.83	5.65
		mg/dl	1.66	1.33	-	1.99	0.17	0.33
Bilirubin Total	Diazo with Dichloroaniline (DCA)	µmol/l	30.98	24.78	-	37.17	3.10	6.20
		mg/dl	1.81	1.45	-	2.18	0.18	0.36
	Diazo with Sulphanilic Acid	µmol/l	31.63	25.30	-	37.95	3.16	6.33
		mg/dl	1.85	1.48	-	2.21	0.18	0.37
	Diazonium ion	µmol/l	30.98	24.78	-	37.17	3.10	6.20
		mg/dl	1.81	1.45	-	2.18	0.18	0.36
Calcium	Arsenazo III	mmol/l	2.30	2.07	-	2.53	0.12	0.23
		mg/dl	9.24	8.31	-	10.16	0.46	0.92
Chloride	ISE indirect	mmol/l	96.98	90.19	-	103.77	3.39	6.79
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.24	3.69	-	4.79	0.28	0.55
		mg/dl	163.78	142.48	-	185.07	10.65	21.29
Cholinesterase	Colorimetric Butyrylthiocholine 37°C	U/L	8762.55	7010.04	-	10515.06	876.26	1752.51
CK Total	CK-NAC (IFCC) 37°C	U/L	257.37	226.49	-	288.26	15.44	30.88
	Abbott CK-NAC (IFCC) 37°C	U/L	257.37	226.49	-	288.26	15.44	30.88
Copper	Colorimetric	µmol/l	15.27	12.22	-	18.32	1.53	3.05
		µg/dl	96.83	77.46	-	116.19	9.68	19.37
Creatinine	Alkaline picrate no deproteinization	µmol/l	124.03	99.22	-	148.83	12.40	24.81
		mg/dl	1.40	1.12	-	1.69	0.14	0.28
	Enzymatic UV method	µmol/l	120.95	96.76	-	145.14	12.10	24.19
		mg/dl	1.36	1.09	-	1.64	0.14	0.27
gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	56.47	48.00	-	64.94	4.24	8.47
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	56.47	48.00	-	64.94	4.24	8.47
Glucose	Hexokinase	mmol/l	6.24	5.31	-	7.18	0.47	0.94
		mg/dl	112.91	95.98	-	129.85	8.47	16.94
	Glucose oxidase	mmol/l	6.29	5.34	-	7.23	0.47	0.94
		mg/dl	112.91	95.98	-	129.85	8.47	16.94
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	22.88	18.76	-	27.00	2.06	4.12
		µg/dl	128.23	105.15	-	151.32	11.54	23.08
	Colorimetric without ppt.(Ferrozine)	µmol/l	22.55	18.49	-	26.61	2.03	4.06
		µg/dl	126.02	103.34	-	148.71	11.34	22.68
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.65	1.35	-	1.94	0.15	0.30
		mg/dl	14.89	12.21	-	17.57	1.34	2.68
Lipase	Other Colorimetric 37°C	U/L	37.08	29.67	-	44.50	3.71	7.42
Lithium	Spectrophotometric	mmol/l	0.93	0.82	-	1.04	0.06	0.11
		mg/dl	0.64	0.57	-	0.72	0.04	0.08
Magnesium	Arsenazo III	mmol/l	0.81	0.71	-	0.90	0.05	0.10
		mg/dl	1.96	1.73	-	2.20	0.12	0.24
	Enzymatic	mmol/l	0.81	0.72	-	0.91	0.05	0.10
		mg/dl	1.98	1.74	-	2.21	0.12	0.24
Phosphate Inorganic	Phosphomolybdate enzymatic	mmol/l	1.48	1.25	-	1.70	0.11	0.22
		mg/dl	4.58	3.89	-	5.26	0.34	0.69
	Phosphomolybdate UV	mmol/l	1.48	1.25	-	1.70	0.11	0.22
		mg/dl	4.58	3.89	-	5.26	0.34	0.69
Potassium	ISE method - indirect	mmol/l	3.87	3.60	-	4.14	0.14	0.27
Protein Total	Biuret reaction end point	g/l	68.67	54.94	-	82.40	6.87	13.73
		g/dl	6.87	5.49	-	8.24	0.69	1.37
	Biuret reaction kinetic	g/l	69.72	55.78	-	83.67	6.97	13.94
		g/dl	6.97	5.58	-	8.37	0.70	1.39
Sodium	ISE method - indirect	mmol/l	142.32	135.21	-	149.44	3.56	7.12

TIBC	FE+UIBC(saturation with iron)	µmol/l	36.66	29.33	-	43.99	3.67	7.33
		µg/dl	205.38	164.30	-	246.46	20.54	41.08
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.11	0.94	-	1.28	0.08	0.17
		mg/dl	98.31	83.56	-	113.05	7.37	14.75
	L/G Kinase EP. no correction	mmol/l	1.12	0.95	-	1.29	0.08	0.17
		mg/dl	99.26	84.37	-	114.15	7.44	14.89
	Lipase/Glycerol Dehydrogenase	mmol/l	1.09	0.93	-	1.25	0.08	0.16
		mg/dl	96.51	82.03	-	110.98	7.24	14.48
Urea	Urease kinetic	mmol/l	7.48	6.36	-	8.60	0.56	1.12
		mg/dl	45.01	38.26	-	51.76	3.38	6.75
	BUN	mmol/l	7.48	6.36	-	8.60	0.56	1.12
		mg/dl	20.99	17.84	-	24.13	1.57	3.15
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.74	5.86	-	7.61	0.44	0.88
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.76	5.88	-	7.64	0.44	0.88
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.88	5.99	-	7.78	0.45	0.89

BECKMAN COULTER AU SERIES® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	45.09	38.32	-	51.85	3.38	6.76
		g/dl	4.51	3.83	-	5.18	0.34	0.68
	Bromocresol Purple	g/l	45.09	38.32	-	51.85	3.38	6.76
		g/dl	4.51	3.83	-	5.18	0.34	0.68
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/L	278.64	236.84	-	320.43	20.90	41.80
ALT (GPT)	Tris buffer without P5P 37°C	U/L	47.24	37.80	-	56.69	4.72	9.45
	Beckman Mod. IFCC Ref. without P5P 37°C	U/L	47.24	37.80	-	56.69	4.72	9.45
	Beckman (Extinction Coefficient) 37°C	U/L	46.15	36.92	-	55.38	4.61	9.23
Amylase Total	Beckman Synchron CX4/CX5/CX7 37°C	U/L	100.85	85.72	-	115.98	7.56	15.13
	Beckman Coulter - blocked pNPG7 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
	Beckman CNPG3 (Extinction Coeff) 37°C	U/L	94.70	80.50	-	108.91	7.10	14.21
AST (GOT)	Beckman Mod. IFCC Ref. without P5P 37°C	U/L	45.82	36.65	-	54.98	4.58	9.16
	Beckman (Extinction Coefficient) 37°C	U/L	44.54	35.63	-	53.45	4.45	8.91
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	29.56	23.64	-	35.47	2.96	5.91
		mg/dl	1.73	1.38	-	2.07	0.17	0.35
Bilirubin Total	Dichlorophenyl Diazonium (DPD)	µmol/l	32.49	25.99	-	38.99	3.25	6.50
		mg/dl	1.90	1.52	-	2.28	0.19	0.38
	DPD (Beckman AU)	µmol/l	33.68	26.94	-	40.41	3.37	6.74
		mg/dl	1.98	1.58	-	2.37	0.20	0.40
Calcium	Cresolphthalein complexone	mmol/l	2.38	2.14	-	2.62	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	Arsenazo III	mmol/l	2.40	2.16	-	2.64	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
Chloride	ISE indirect	mmol/l	95.08	88.42	-	101.73	3.33	6.66
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
	Cholesterol Oxidase - IDMS	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
	Cholesterol Dehydrogenase	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
Cholinesterase	Colorimetric Butyrylthiocholine 37°C	U/L	7185.85	5748.68	-	8623.02	718.58	1437.17
CK Total	Monothioglycerol 37°C	U/L	271.29	238.73	-	303.84	16.28	32.55
	CK-NAC (IFCC) 37°C	U/L	268.50	236.28	-	300.72	16.11	32.22
	Beckman CK-NAC (Extinction Coeff) 37°C	U/L	268.50	236.28	-	300.72	16.11	32.22
Creatinine	Alkaline picrate no deproteinization	µmol/l	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Enzymatic UV method	µmol/l	124.03	99.22	-	148.83	12.40	24.81
		mg/dl	1.40	1.12	-	1.69	0.14	0.28
	Jaffe rate blanked	µmol/l	119.93	95.94	-	143.91	11.99	23.99
		mg/dl	1.35	1.08	-	1.62	0.14	0.27
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/l	112.75	90.20	-	135.30	11.28	22.55
		mg/dl	1.27	1.02	-	1.53	0.13	0.25
	IDMS traceable	µmol/l	114.80	91.84	-	137.76	11.48	22.96
		mg/dl	1.30	1.04	-	1.56	0.13	0.26
D-3-Hydroxybutyrate	Tris buffer 100mmol pH 8.5	mmol/l	0.40	0.34	-	0.46	0.03	0.06
gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	54.42	46.26	-	62.58	4.08	8.16
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	58.53	49.75	-	67.31	4.39	8.78
	Beckman Szasz (Extinction Coeff) 37°C	U/L	57.50	48.88	-	66.13	4.31	8.63

Glucose	Hexokinase	mmol/l	6.31	5.36	-	7.25	0.47	0.95
		mg/dl	114.00	96.90	-	131.10	8.55	17.10
	Glucose oxidase	mmol/l	6.53	5.55	-	7.50	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
Iron	Colorimetric with ppt.(Ferrene)	µmol/l	22.11	18.13	-	26.09	1.99	3.98
		µg/dl	123.81	101.53	-	146.10	11.14	22.29
	Colorimetric without ppt.(Ferrozine)	µmol/l	21.56	17.68	-	25.44	1.94	3.88
		µg/dl	120.50	98.81	-	142.19	10.84	21.69
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.55	1.27	-	1.83	0.14	0.28
		mg/dl	13.94	11.43	-	16.45	1.25	2.51
LD (LDH)	P->L Scandinavian & Dutch 37°C	U/L	439.30	373.40	-	505.19	32.95	65.89
Lipase	Other Colorimetric 37°C	U/L	34.90	27.92	-	41.88	3.49	6.98
Lithium	Spectrophotometric	mmol/l	0.94	0.82	-	1.05	0.06	0.11
		mg/dl	0.65	0.57	-	0.73	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.84	0.74	-	0.94	0.05	0.10
		mg/dl	2.03	1.79	-	2.27	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.49	1.26	-	1.71	0.11	0.22
		mg/dl	4.61	3.92	-	5.30	0.35	0.69
Potassium	ISE method - indirect	mmol/l	3.89	3.62	-	4.16	0.14	0.27
Protein Total	Biuret reaction end point	g/l	66.56	53.25	-	79.88	6.66	13.31
		g/dl	6.66	5.33	-	7.99	0.67	1.33
Sodium	ISE method - indirect	mmol/l	143.34	136.17	-	150.51	3.58	7.17
TIBC	FE+UIBC(saturation with iron)	µmol/l	41.35	33.08	-	49.62	4.13	8.27
		µg/dl	231.50	185.20	-	277.80	23.15	46.30
	Direct Colorimetric	µmol/l	41.44	33.15	-	49.72	4.14	8.29
		µg/dl	231.50	185.20	-	277.80	23.15	46.30
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.15	0.98	-	1.33	0.09	0.17
		mg/dl	102.11	86.80	-	117.43	7.66	15.32
	L/G Kinase EP. no correction	mmol/l	1.15	0.98	-	1.33	0.09	0.17
		mg/dl	102.11	86.80	-	117.43	7.66	15.32
Urea	Urease end point	mmol/l	7.44	6.32	-	8.56	0.56	1.12
		mg/dl	44.71	38.00	-	51.41	3.35	6.71
	Urease kinetic	mmol/l	7.43	6.32	-	8.55	0.56	1.11
		mg/dl	44.71	38.00	-	51.41	3.35	6.71
	BUN	mmol/l	7.43	6.32	-	8.55	0.56	1.11
		mg/dl	20.88	17.75	-	24.02	1.57	3.13
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.87	5.98	-	7.76	0.45	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.87	5.98	-	7.76	0.45	0.89
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.91	6.01	-	7.80	0.45	0.90
Zinc	Colorimetric without deprot.	µmol/l	28.10	22.48	-	33.72	2.81	5.62
		µg/dl	183.57	146.86	-	220.29	18.36	36.71

BIOTECNICA / WIENER BT AND CB SERIES **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	45.89	39.00	-	52.77	3.44	6.88
		g/dl	4.59	3.90	-	5.28	0.34	0.69
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	34.97	27.98	-	41.97	3.50	6.99
		mg/dl	2.05	1.64	-	2.46	0.21	0.41
Calcium	Arsenazo III	mmol/l	2.32	2.09	-	2.56	0.12	0.23
		mg/dl	9.31	8.38	-	10.24	0.47	0.93
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.23	3.68	-	4.77	0.27	0.55
		mg/dl	162.68	141.53	-	183.83	10.57	21.15
Glucose	Glucose oxidase	mmol/l	6.43	5.46	-	7.39	0.48	0.96
		mg/dl	116.17	98.74	-	133.59	8.71	17.43
Magnesium	Xylidyl Blue	mmol/l	0.81	0.71	-	0.90	0.05	0.10
		mg/dl	1.96	1.73	-	2.20	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.61	1.37	-	1.86	0.12	0.24
		mg/dl	5.00	4.25	-	5.75	0.38	0.75
Protein Total	Biuret reaction end point	g/l	70.54	56.43	-	84.65	7.05	14.11
		g/dl	7.05	5.64	-	8.46	0.71	1.41

Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.14	0.97	-	1.31	0.09	0.17
		mg/dl	101.16	85.99	-	116.34	7.59	15.17
Urea	Urease kinetic	mmol/l	7.53	6.40	-	8.66	0.56	1.13
		mg/dl	45.32	38.52	-	52.11	3.40	6.80
	BUN	mmol/l	7.53	6.40	-	8.66	0.56	1.13
		mg/dl	21.19	18.01	-	24.37	1.59	3.18
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.42	0.36	-	0.47	0.03	0.05
		mg/dl	6.93	6.03	-	7.83	0.45	0.90

COBAS INTEGRA® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE				
Albumin	Bromocresol Green	g/l	48.28	41.04	-	55.53	3.62	7.24
		g/dl	4.83	4.10	-	5.55	0.36	0.72
	Turbidimetric Assays	g/l	46.91	39.88	-	53.95	3.52	7.04
		g/dl	4.69	3.99	-	5.40	0.35	0.70
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/L	244.66	207.96	-	281.35	18.35	36.70
	Roche Integra AMP buffer 30°C	U/L	190.29	161.74	-	218.83	14.27	28.54
	Roche Integra AMP buffer 25°C	U/L	156.31	132.86	-	179.75	11.72	23.45
ALT (GPT)	Tris buffer without P5P 37°C	U/L	39.55	31.64	-	47.46	3.96	7.91
	Tris buffer without P5P 30°C	U/L	29.67	23.73	-	35.60	2.97	5.93
	Tris buffer without P5P 25°C	U/L	21.97	17.58	-	26.37	2.20	4.39
Amylase Total	BM/Roche Colorimetric pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
	Roche Integra 2-chloro-pNPG7 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
	Roche liquid stable pNPG7 37°C	U/L	105.77	89.90	-	121.63	7.93	15.87
AST (GOT)	Tris buffer without P5P 37°C	U/L	38.18	30.54	-	45.82	3.82	7.64
	Tris buffer without P5P 30°C	U/L	25.45	20.36	-	30.54	2.55	5.09
	Tris buffer without P5P 25°C	U/L	17.82	14.25	-	21.38	1.78	3.56
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	29.70	23.76	-	35.64	2.97	5.94
		mg/dl	1.74	1.39	-	2.09	0.17	0.35
	Diazo with Sulphanilic Acid	µmol/l	28.41	22.73	-	34.10	2.84	5.68
		mg/dl	1.66	1.33	-	1.99	0.17	0.33
	Roche DPD JG standardised	µmol/l	29.56	23.64	-	35.47	2.96	5.91
		mg/dl	1.73	1.38	-	2.07	0.17	0.35
	Roche DPD Doumas standardised	µmol/l	28.56	22.84	-	34.27	2.86	5.71
		mg/dl	1.67	1.34	-	2.00	0.17	0.33
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	29.79	23.83	-	35.75	2.98	5.96
		mg/dl	1.74	1.39	-	2.09	0.17	0.35
	Dichlorophenyl Diazonium (DPD)	µmol/l	29.68	23.75	-	35.62	2.97	5.94
		mg/dl	1.74	1.39	-	2.09	0.17	0.35
	Diazonium ion	µmol/l	29.79	23.83	-	35.75	2.98	5.96
		mg/dl	1.74	1.39	-	2.09	0.17	0.35
Calcium	Cresolphthalein complexone	mmol/l	2.38	2.14	-	2.62	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	NM-BAPTA	mmol/l	2.37	2.13	-	2.61	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
Chloride	ISE indirect	mmol/l	96.03	89.30	-	102.75	3.36	6.72
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.23	3.68	-	4.77	0.27	0.55
		mg/dl	162.68	141.53	-	183.83	10.57	21.15
	Cholesterol Oxidase - IDMS	mmol/l	4.19	3.65	-	4.74	0.27	0.55
		mg/dl	161.59	140.58	-	182.60	10.50	21.01
CK Total	CK-NAC (IFCC) 37°C	U/L	255.98	225.26	-	286.70	15.36	30.72
	CK-NAC (IFCC) 30°C	U/L	159.99	140.79	-	179.19	9.60	19.20
	CK-NAC (IFCC) 25°C	U/L	108.51	95.49	-	121.54	6.51	13.02
Creatinine	Alkaline picrate no deproteinization	µmol/l	119.93	95.94	-	143.91	11.99	23.99
		mg/dl	1.35	1.08	-	1.62	0.14	0.27
	Roche Creatinine Plus	µmol/l	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	118.90	95.12	-	142.68	11.89	23.78
		mg/dl	1.34	1.07	-	1.61	0.13	0.27
	Jaffe rate blanked compensated (-18 µmol/l)	µmol/l	117.88	94.30	-	141.45	11.79	23.58
		mg/dl	1.33	1.07	-	1.60	0.13	0.27
gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	55.45	47.13	-	63.76	4.16	8.32
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	44.15	37.53	-	50.77	3.31	6.62
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	33.88	28.80	-	38.97	2.54	5.08
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	58.53	49.75	-	67.31	4.39	8.78
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	46.21	39.27	-	53.14	3.47	6.93
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	35.94	30.55	-	41.33	2.70	5.39

Glucose	**Hexokinase**	mmol/l	6.46	5.49	-	7.43	0.48	0.97
		mg/dl	116.17	98.74	-	133.59	8.71	17.43
Iron	**Colorimetric with ppt.(Ferrene)**	µmol/l	22.77	18.67	-	26.87	2.05	4.10
		µg/dl	127.13	104.25	-	150.01	11.44	22.88
	Colorimetric without ppt.(Ferrozine)	µmol/l	21.78	17.86	-	25.70	1.96	3.92
		µg/dl	121.60	99.71	-	143.49	10.94	21.89
Lipase	**Roche Colorimetric 37°C**	U/L	35.99	28.79	-	43.19	3.60	7.20
Lithium	**Ion selective electrode**	mmol/l	0.91	0.80	-	1.02	0.05	0.11
		mg/dl	0.63	0.56	-	0.71	0.04	0.08
Magnesium	**Xylidyl Blue**	mmol/l	0.84	0.74	-	0.94	0.05	0.10
		mg/dl	2.03	1.79	-	2.27	0.12	0.24
	Chlorphosphonazo III	mmol/l	0.84	0.74	-	0.95	0.05	0.10
		mg/dl	2.05	1.81	-	2.30	0.12	0.25
Phosphate Inorganic	**Phosphomolybdate enzymatic**	mmol/l	1.55	1.32	-	1.78	0.12	0.23
		mg/dl	4.81	4.09	-	5.53	0.36	0.72
	Phosphomolybdate UV	mmol/l	1.54	1.31	-	1.77	0.12	0.23
		mg/dl	4.78	4.06	-	5.49	0.36	0.72
Potassium	**ISE method - indirect**	mmol/l	3.88	3.61	-	4.15	0.14	0.27
Protein Total	**Biuret reaction end point**	g/l	64.69	51.75	-	77.63	6.47	12.94
		g/dl	6.47	5.18	-	7.76	0.65	1.29
	Biuret reaction kinetic	g/l	66.21	52.97	-	79.46	6.62	13.24
		g/dl	6.62	5.30	-	7.95	0.66	1.32
Sodium	**ISE method - indirect**	mmol/l	141.31	134.24	-	148.37	3.53	7.07
TIBC	**FE+UIBC(saturation with iron)**	µmol/l	37.65	30.12	-	45.18	3.77	7.53
		µg/dl	210.79	168.63	-	252.94	21.08	42.16
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/l	1.19	1.01	-	1.36	0.09	0.18
		mg/dl	104.87	89.14	-	120.60	7.86	15.73
Urea	**Urease kinetic**	mmol/l	7.11	6.04	-	8.17	0.53	1.07
		mg/dl	42.68	36.28	-	49.08	3.20	6.40
	BUN	mmol/l	7.11	6.04	-	8.17	0.53	1.07
		mg/dl	19.97	16.98	-	22.97	1.50	3.00
Uric Acid (Urate)	**Uricase peroxidase with ascorbate oxidase**	mmol/l	0.42	0.36	-	0.47	0.03	0.05
		mg/dl	6.97	6.06	-	7.87	0.45	0.91
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.42	0.36	-	0.47	0.03	0.05
		mg/dl	6.93	6.03	-	7.83	0.45	0.90
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.42	0.36	-	0.47	0.03	0.05
		mg/dl	6.93	6.03	-	7.83	0.45	0.90

KONELAB 20/30/60®/ THERMO SCIENTIFIC INDIKO PLUS® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	**Bromocresol Green**	g/l	44.86	38.13	-	51.59	3.36	6.73
		g/dl	4.49	3.81	-	5.16	0.34	0.67
ALT (GPT)	**Tris buffer without P5P 37°C**	U/L	46.15	36.92	-	55.38	4.61	9.23
	Tris buffer without P5P 30°C	U/L	34.06	27.25	-	40.87	3.41	6.81
	Tris buffer without P5P 25°C	U/L	26.37	21.10	-	31.64	2.64	5.27
AST (GOT)	**Tris buffer without P5P 37°C**	U/L	47.09	37.67	-	56.51	4.71	9.42
	Tris buffer without P5P 30°C	U/L	31.82	25.45	-	38.18	3.18	6.36
	Tris buffer without P5P 25°C	U/L	22.91	18.33	-	27.49	2.29	4.58
Bilirubin Total	**Diazo with Sulphanilic Acid**	µmol/l	19.86	15.89	-	23.83	1.99	3.97
		mg/dl	1.17	0.93	-	1.40	0.12	0.23
Calcium	**Arsenazo III**	mmol/l	2.41	2.17	-	2.65	0.12	0.24
		mg/dl	9.69	8.72	-	10.66	0.48	0.97
Cholesterol	**Cholesterol Oxidase - Abell Kendall**	mmol/l	4.28	3.72	-	4.84	0.28	0.56
		mg/dl	164.87	143.43	-	186.30	10.72	21.43
CK Total	**CK-NAC (IFCC) 37°C**	U/L	268.50	236.28	-	300.72	16.11	32.22
	CK-NAC (IFCC) 30°C	U/L	168.34	148.14	-	188.54	10.10	20.20
	CK-NAC (IFCC) 25°C	U/L	114.08	100.39	-	127.77	6.84	13.69
Creatinine	**Alkaline picrate no deproteinization**	µmol/l	119.93	95.94	-	143.91	11.99	23.99
		mg/dl	1.35	1.08	-	1.62	0.14	0.27
gamma-GT	**Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C**	U/L	57.50	48.88	-	66.13	4.31	8.63
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	45.18	38.40	-	51.96	3.39	6.78
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	35.94	30.55	-	41.33	2.70	5.39
Glucose	**Glucose oxidase**	mmol/l	6.43	5.46	-	7.39	0.48	0.96
		mg/dl	116.17	98.74	-	133.59	8.71	17.43
Iron	**Colorimetric without ppt.(Ferrozine)**	µmol/l	23.88	19.58	-	28.18	2.15	4.30
		µg/dl	133.76	109.68	-	157.84	12.04	24.08
Magnesium	**Xylidyl Blue**	mmol/l	0.83	0.73	-	0.93	0.05	0.10
		mg/dl	2.02	1.77	-	2.26	0.12	0.24
Phosphate Inorganic	**Phosphomolybdate UV**	mmol/l	1.54	1.31	-	1.77	0.12	0.23
		mg/dl	4.78	4.06	-	5.49	0.36	0.72

Potassium	**ISE method - direct**	mmol/l	3.88	3.61	-	4.15	0.14	0.27
Protein Total	**Biuret reaction end point**	g/l	67.38	53.91	-	80.86	6.74	13.48
		g/dl	6.74	5.39	-	8.09	0.67	1.35
Sodium	**ISE method - direct**	mmol/l	141.31	134.24	-	148.37	3.53	7.07
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/l	1.19	1.01	-	1.36	0.09	0.18
		mg/dl	104.87	89.14	-	120.60	7.86	15.73
Urea	**Urease kinetic**	mmol/l	7.52	6.39	-	8.65	0.56	1.13
		mg/dl	45.21	38.43	-	52.00	3.39	6.78
	BUN	mmol/l	7.52	6.39	-	8.65	0.56	1.13
		mg/dl	21.09	17.92	-	24.25	1.58	3.16

MINDRAY BS-200/300/400 **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	**Bromocresol Green**	g/l	45.43	38.61	-	52.24	3.41	6.81
		g/dl	4.54	3.86	-	5.22	0.34	0.68
Alkaline Phosphatase	**AMP optimised to IFCC 37°C**	U/L	269.12	228.75	-	309.49	20.18	40.37
	AMP optimised to IFCC 30°C	U/L	209.32	177.92	-	240.71	15.70	31.40
	AMP optimised to IFCC 25°C	U/L	172.62	146.73	-	198.51	12.95	25.89
	AMP non-optimised 37°C	U/L	267.76	227.60	-	307.93	20.08	40.16
	AMP non-optimised 30°C	U/L	207.96	176.76	-	239.15	15.60	31.19
	AMP non-optimised 25°C	U/L	171.26	145.57	-	196.95	12.84	25.69
ALT (GPT)	**Tris buffer without P5P 37°C**	U/L	46.15	36.92	-	55.38	4.61	9.23
	Tris buffer without P5P 30°C	U/L	34.06	27.25	-	40.87	3.41	6.81
	Tris buffer without P5P 25°C	U/L	26.37	21.10	-	31.64	2.64	5.27
AST (GOT)	**Tris buffer without P5P 37°C**	U/L	45.82	36.65	-	54.98	4.58	9.16
	Tris buffer without P5P 30°C	U/L	43.27	34.62	-	51.92	4.33	8.65
	Tris buffer without P5P 25°C	U/L	21.64	17.31	-	25.96	2.16	4.33
Bilirubin Direct	**Oxidation to Biliverdin/Vanadate**	µmol/l	24.99	19.99	-	29.98	2.50	5.00
		mg/dl	1.46	1.17	-	1.75	0.15	0.29
Bilirubin Total	**Diazo with Sulphanilic Acid**	µmol/l	33.68	26.94	-	40.41	3.37	6.74
		mg/dl	1.98	1.58	-	2.37	0.20	0.40
	Oxidation to Biliverdin/Vanadate	µmol/l	31.41	25.13	-	37.69	3.14	6.28
		mg/dl	1.83	1.47	-	2.20	0.18	0.37
Calcium	**Arsenazo III**	mmol/l	2.40	2.16	-	2.64	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
Cholesterol	**Cholesterol Oxidase - Abell Kendall**	mmol/l	4.24	3.69	-	4.79	0.28	0.55
		mg/dl	163.78	142.48	-	185.07	10.65	21.29
	Cholesterol Oxidase - IDMS	mmol/l	4.23	3.68	-	4.77	0.27	0.55
		mg/dl	162.68	141.53	-	183.83	10.57	21.15
CK Total	**CK-NAC (IFCC) 37°C**	U/L	261.55	230.16	-	292.93	15.69	31.39
	CK-NAC (IFCC) 30°C	U/L	164.16	144.46	-	183.86	9.85	19.70
	CK-NAC (IFCC) 25°C	U/L	111.30	97.94	-	124.65	6.68	13.36
Creatinine	**Alkaline picrate no deproteinization**	µmol/l	124.03	99.22	-	148.83	12.40	24.81
		mg/dl	1.40	1.12	-	1.69	0.14	0.28
	Creatinine PAP method	µmol/l	120.95	96.76	-	145.14	12.10	24.19
		mg/dl	1.36	1.09	-	1.64	0.14	0.27
gamma-GT	**Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C**	U/L	56.47	48.00	-	64.94	4.24	8.47
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	44.15	37.53	-	50.77	3.31	6.62
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	34.91	29.67	-	40.15	2.62	5.24
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	56.47	48.00	-	64.94	4.24	8.47
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	44.15	37.53	-	50.77	3.31	6.62
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	34.91	29.67	-	40.15	2.62	5.24
Glucose	**Glucose oxidase**	mmol/l	6.49	5.52	-	7.47	0.49	0.97
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
Iron	**Colorimetric without ppt.(Ferrozine)**	µmol/l	20.78	17.04	-	24.52	1.87	3.74
		µg/dl	116.07	95.18	-	136.97	10.45	20.89
LD (LDH)	**P->L German methods 37°C**	U/L	426.46	362.49	-	490.43	31.98	63.97
	P->L German methods 30°C	U/L	308.00	261.80	-	354.20	23.10	46.20
	P->L German methods 25°C	U/L	216.19	183.76	-	248.62	16.21	32.43
	P->L SFBC 37°C	U/L	401.78	341.52	-	462.05	30.13	60.27
	P->L SFBC 30°C	U/L	290.23	246.70	-	333.77	21.77	43.53
	P->L SFBC 25°C	U/L	203.36	172.86	-	233.86	15.25	30.50
Magnesium	**Xylidyl Blue**	mmol/l	0.85	0.75	-	0.95	0.05	0.10
		mg/dl	2.07	1.82	-	2.32	0.12	0.25
Phosphate Inorganic	**Phosphomolybdate UV**	mmol/l	1.53	1.30	-	1.76	0.11	0.23
		mg/dl	4.74	4.03	-	5.45	0.36	0.71

Protein Total	**Biuret reaction end point**	g/l	68.90	55.12	-	82.68	6.89	13.78
		g/dl	6.89	5.51	-	8.27	0.69	1.38
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/l	1.16	0.99	-	1.34	0.09	0.17
		mg/dl	103.07	87.61	-	118.53	7.73	15.46
Urea	**Urease kinetic**	mmol/l	7.54	6.41	-	8.67	0.57	1.13
		mg/dl	45.32	38.52	-	52.11	3.40	6.80
	BUN	mmol/l	7.54	6.41	-	8.67	0.57	1.13
		mg/dl	21.19	18.01	-	24.37	1.59	3.18
Uric Acid (Urate)	**Uricase peroxidase with ascorbate oxidase**	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.92	-	7.69	0.44	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.87	5.98	-	7.76	0.45	0.89
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.39	0.34	-	0.45	0.03	0.05
		mg/dl	6.70	5.83	-	7.57	0.44	0.87

ROCHE COBAS C111® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	**Bromocresol Green**	g/l	47.94	40.75	-	55.13	3.60	7.19
		g/dl	4.79	4.07	-	5.51	0.36	0.72
Alkaline Phosphatase	**Roche Integra AMP buffer 37°C**	U/L	244.66	207.96	-	281.35	18.35	36.70
	Roche Integra AMP buffer 30°C	U/L	190.29	161.74	-	218.83	14.27	28.54
	Roche Integra AMP buffer 25°C	U/L	156.31	132.86	-	179.75	11.72	23.45
ALT (GPT)	**Tris buffer without P5P 37°C**	U/L	39.55	31.64	-	47.46	3.96	7.91
	Tris buffer without P5P 30°C	U/L	29.67	23.73	-	35.60	2.97	5.93
	Tris buffer without P5P 25°C	U/L	21.97	17.58	-	26.37	2.20	4.39
Amylase Total	**Roche liquid stable pNPG7 37°C**	U/L	104.54	88.86	-	120.22	7.84	15.68
AST (GOT)	**Tris buffer without P5P 37°C**	U/L	39.45	31.56	-	47.34	3.95	7.89
	Tris buffer without P5P 30°C	U/L	26.73	21.38	-	32.07	2.67	5.35
	Tris buffer without P5P 25°C	U/L	19.09	15.27	-	22.91	1.91	3.82
Bilirubin Direct	**Dichlorophenyl Diazonium (DPD)**	µmol/l	28.84	23.07	-	34.61	2.88	5.77
		mg/dl	1.68	1.35	-	2.02	0.17	0.34
	Roche DPD JG standardised	µmol/l	28.98	23.19	-	34.78	2.90	5.80
		mg/dl	1.70	1.36	-	2.04	0.17	0.34
Bilirubin Total	**Diazo with Sulphanilic Acid**	µmol/l	29.36	23.49	-	35.23	2.94	5.87
		mg/dl	1.72	1.37	-	2.06	0.17	0.34
	Dichlorophenyl Diazonium (DPD)	µmol/l	30.22	24.18	-	36.27	3.02	6.04
		mg/dl	1.77	1.42	-	2.12	0.18	0.35
	Diazonium ion	µmol/l	28.71	22.97	-	34.45	2.87	5.74
		mg/dl	1.68	1.35	-	2.02	0.17	0.34
Calcium	**NM-BAPTA**	mmol/l	2.38	2.14	-	2.62	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
Cholesterol	**Cholesterol Oxidase - Abell Kendall**	mmol/l	4.19	3.65	-	4.74	0.27	0.55
		mg/dl	161.59	140.58	-	182.60	10.50	21.01
	Cholesterol Oxidase - IDMS	mmol/l	4.20	3.66	-	4.75	0.27	0.55
		mg/dl	162.68	141.53	-	183.83	10.57	21.15
CK Total	**CK-NAC (IFCC) 37°C**	U/L	257.37	226.49	-	288.26	15.44	30.88
	CK-NAC (IFCC) 30°C	U/L	161.38	142.01	-	180.75	9.68	19.37
	CK-NAC (IFCC) 25°C	U/L	109.91	96.72	-	123.09	6.59	13.19
Creatinine	**Roche Creatinine Plus**	µmol/l	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
Glucose	**Hexokinase**	mmol/l	6.47	5.50	-	7.44	0.49	0.97
		mg/dl	116.17	98.74	-	133.59	8.71	17.43
Phosphate Inorganic	**Phosphomolybdate UV**	mmol/l	1.55	1.32	-	1.78	0.12	0.23
		mg/dl	4.81	4.09	-	5.53	0.36	0.72
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/l	1.21	1.03	-	1.39	0.09	0.18
		mg/dl	106.88	90.84	-	122.91	8.02	16.03

Urea	Urease kinetic	mmol/l	7.09	6.02	-	8.15	0.53	1.06
		mg/dl	42.58	36.19	-	48.97	3.19	6.39
	BUN	mmol/l	7.09	6.02	-	8.15	0.53	1.06
		mg/dl	19.87	16.89	-	22.85	1.49	2.98
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.82	5.93	-	7.71	0.44	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.87	5.98	-	7.76	0.45	0.89
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.79	5.90	-	7.67	0.44	0.88

ROCHE COBAS C311® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	47.03	39.97	-	54.08	3.53	7.05
		g/dl	4.70	4.00	-	5.41	0.35	0.71
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/L	239.22	203.34	-	275.10	17.94	35.88
	Roche Integra AMP buffer 30°C	U/L	186.21	158.28	-	214.14	13.97	27.93
	Roche Integra AMP buffer 25°C	U/L	152.23	129.40	-	175.06	11.42	22.83
ALT (GPT)	Tris buffer without P5P 37°C	U/L	42.85	34.28	-	51.42	4.29	8.57
	Tris buffer without P5P 30°C	U/L	31.86	25.49	-	38.24	3.19	6.37
	Tris buffer without P5P 25°C	U/L	24.17	19.34	-	29.01	2.42	4.83
Amylase Total	BM/Roche Colorimetric pNPG7 37°C	U/L	103.31	87.81	-	118.81	7.75	15.50
	Roche liquid stable pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
AST (GOT)	Tris buffer without P5P 37°C	U/L	40.72	32.58	-	48.87	4.07	8.14
	Tris buffer without P5P 30°C	U/L	28.00	22.40	-	33.60	2.80	5.60
	Tris buffer without P5P 25°C	U/L	19.09	15.27	-	22.91	1.91	3.82
Bicarbonate	Enzymatic	mmol/l	15.22	12.18	-	18.26	1.52	3.04
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	29.70	23.76	-	35.64	2.97	5.94
		mg/dl	1.74	1.39	-	2.09	0.17	0.35
	Diazo with Sulphanilic Acid	µmol/L	29.13	23.30	-	34.95	2.91	5.83
		mg/dl	1.70	1.36	-	2.04	0.17	0.34
	Roche DPD JG standardised	µmol/l	28.84	23.07	-	34.61	2.88	5.77
		mg/dl	1.68	1.35	-	2.02	0.17	0.34
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	29.14	23.31	-	34.97	2.91	5.83
		mg/dl	1.71	1.36	-	2.05	0.17	0.34
	Dichlorophenyl Diazonium (DPD)	µmol/l	29.04	23.23	-	34.84	2.90	5.81
		mg/dl	1.69	1.36	-	2.03	0.17	0.34
	Diazonium ion	µmol/l	29.14	23.31	-	34.97	2.91	5.83
		mg/dl	1.71	1.36	-	2.05	0.17	0.34
Calcium	Cresolphthalein complexone	mmol/l	2.39	2.15	-	2.63	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
	NM-BAPTA	mmol/l	2.39	2.15	-	2.63	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
Chloride	ISE indirect	mmol/l	92.22	85.77	-	98.68	3.23	6.46
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.30	3.74	-	4.86	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
	Cholesterol Oxidase - IDMS	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
CK Total	CK-NAC (IFCC) 37°C	U/L	251.81	221.59	-	282.03	15.11	30.22
	CK-NAC (IFCC) 30°C	U/L	157.21	138.34	-	176.07	9.43	18.86
	CK-NAC (IFCC) 25°C	U/L	107.12	94.27	-	119.98	6.43	12.85
Creatinine	Roche Creatinine Plus	µmol/l	127.10	101.68	-	152.52	12.71	25.42
		mg/dl	1.44	1.15	-	1.72	0.14	0.29
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	127.10	101.68	-	152.52	12.71	25.42
		mg/dl	1.44	1.15	-	1.72	0.14	0.29
gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	54.42	46.26	-	62.58	4.08	8.16
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	43.13	36.66	-	49.59	3.23	6.47
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	33.88	28.80	-	38.97	2.54	5.08
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	54.42	46.26	-	62.58	4.08	8.16
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	43.13	36.66	-	49.59	3.23	6.47
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	33.88	28.80	-	38.97	2.54	5.08
Glucose	Hexokinase	mmol/l	6.37	5.42	-	7.33	0.48	0.96
		mg/dl	115.08	97.82	-	132.35	8.63	17.26
	Glucose oxidase	mmol/l	6.42	5.45	-	7.38	0.48	0.96
		mg/dl	115.08	97.82	-	132.35	8.63	17.26

Iron	Colorimetric with ppt.(Ferrene)	µmol/l	21.34	17.50	-	25.18	1.92	3.84
		µg/dl	119.39	97.90	-	140.88	10.75	21.49
	Colorimetric without ppt.(Ferrozine)	µmol/l	21.34	17.50	-	25.18	1.92	3.84
		µg/dl	119.39	97.90	-	140.88	10.75	21.49
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.61	1.32	-	1.89	0.14	0.29
		mg/dl	14.47	11.86	-	17.07	1.30	2.60
Lipase	Roche Colorimetric 37°C	U/L	35.99	28.79	-	43.19	3.60	7.20
Magnesium	Xylidyl Blue	mmol/l	0.84	0.74	-	0.95	0.05	0.10
		mg/dl	2.05	1.81	-	2.30	0.12	0.25
	Chlorphosphonazo III	mmol/l	0.84	0.74	-	0.95	0.05	0.10
		mg/dl	2.05	1.81	-	2.30	0.12	0.25
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.51	1.28	-	1.73	0.11	0.23
		mg/dl	4.67	3.97	-	5.37	0.35	0.70
Potassium	ISE method - indirect	mmol/l	3.94	3.66	-	4.21	0.14	0.28
Protein Total	Biuret reaction end point	g/l	66.56	53.25	-	79.88	6.66	13.31
		g/dl	6.66	5.33	-	7.99	0.67	1.33
Sodium	ISE method - indirect	mmol/l	142.32	135.21	-	149.44	3.56	7.12
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.20	1.02	-	1.38	0.09	0.18
		mg/dl	105.82	89.95	-	121.69	7.94	15.87
	Lipase/Glycerol Dehydrogenase	mmol/l	1.20	1.02	-	1.38	0.09	0.18
		mg/dl	105.82	89.95	-	121.69	7.94	15.87
Urea	Urease kinetic	mmol/l	7.44	6.32	-	8.56	0.56	1.12
		mg/dl	44.71	38.00	-	51.41	3.35	6.71
	BUN	mmol/l	7.44	6.32	-	8.56	0.56	1.12
		mg/dl	20.88	17.75	-	24.02	1.57	3.13
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.92	-	7.69	0.44	0.89
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.79	5.90	-	7.67	0.44	0.88
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.82	5.93	-	7.71	0.44	0.89

ROCHE COBAS c701 / c702 / c711 **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	46.80	39.78	-	53.82	3.51	7.02
		g/dl	4.68	3.98	-	5.38	0.35	0.70
	Turbidimetric Assays	g/l	47.03	39.97	-	54.08	3.53	7.05
		g/dl	4.70	4.00	-	5.41	0.35	0.71
Alkaline Phosphatase	Roche Integra AMP buffer 37°C	U/L	235.14	199.87	-	270.41	17.64	35.27
	Roche Integra AMP buffer 30°C	U/L	183.49	155.97	-	211.02	13.76	27.52
	Roche Integra AMP buffer 25°C	U/L	150.87	128.24	-	173.50	11.32	22.63
ALT (GPT)	Tris buffer without P5P 37°C	U/L	41.75	33.40	-	50.10	4.18	8.35
	Tris buffer without P5P 30°C	U/L	30.76	24.61	-	36.92	3.08	6.15
	Tris buffer without P5P 25°C	U/L	23.07	18.46	-	27.69	2.31	4.61
Amylase Pancreatic	Roche EPS Liquid Stable 37°C	U/L	69.50	59.08	-	79.93	5.21	10.43
Amylase Total	Roche liquid stable pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
AST (GOT)	Tris buffer without P5P 37°C	U/L	39.45	31.56	-	47.34	3.95	7.89
	Tris buffer without P5P 30°C	U/L	26.73	21.38	-	32.07	2.67	5.35
	Tris buffer without P5P 25°C	U/L	19.09	15.27	-	22.91	1.91	3.82
Bile Acids	Enzymatic Colorimetric	µmol/l	27.32	21.86	-	32.79	2.73	5.46
Bilirubin Direct	Dichlorophenyl Diazonium (DPD)	µmol/l	29.41	23.53	-	35.30	2.94	5.88
		mg/dl	1.73	1.38	-	2.07	0.17	0.35
	Roche DPD JG standardised	µmol/l	30.41	24.33	-	36.49	3.04	6.08
		mg/dl	1.78	1.43	-	2.14	0.18	0.36
Bilirubin Total	Dichlorophenyl Diazonium (DPD)	µmol/l	29.14	23.31	-	34.97	2.91	5.83
		mg/dl	1.71	1.36	-	2.05	0.17	0.34
	Diazonium ion	µmol/l	29.04	23.23	-	34.84	2.90	5.81
		mg/dl	1.69	1.36	-	2.03	0.17	0.34
Calcium	Cresolphthalein complexone	mmol/l	2.37	2.13	-	2.61	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	NM-BAPTA	mmol/l	2.37	2.13	-	2.61	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
Chloride	ISE indirect	mmol/l	93.55	87.01	-	100.10	3.27	6.55

Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
	Cholesterol Oxidase - IDMS	mmol/l	4.30	3.74	-	4.86	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
CK Total	CK-NAC (IFCC) 37°C	U/L	247.64	217.92	-	277.35	14.86	29.72
	CK-NAC (IFCC) 30°C	U/L	154.42	135.89	-	172.96	9.27	18.53
	CK-NAC (IFCC) 25°C	U/L	105.73	93.04	-	118.42	6.34	12.69
Creatinine	Roche Creatinine Plus	µmol/l	130.18	104.14	-	156.21	13.02	26.04
		mg/dl	1.48	1.18	-	1.77	0.15	0.30
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	126.08	100.86	-	151.29	12.61	25.22
		mg/dl	1.42	1.14	-	1.71	0.14	0.28
gamma-GT	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	U/L	54.42	46.26	-	62.58	4.08	8.16
	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	U/L	43.13	36.66	-	49.59	3.23	6.47
	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	U/L	33.88	28.80	-	38.97	2.54	5.08
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	58.53	49.75	-	67.31	4.39	8.78
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	U/L	46.21	39.27	-	53.14	3.47	6.93
	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	U/L	35.94	30.55	-	41.33	2.70	5.39
Glucose	Hexokinase	mmol/l	6.35	5.40	-	7.30	0.48	0.95
		mg/dl	114.00	96.90	-	131.10	8.55	17.10
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	20.78	17.04	-	24.52	1.87	3.74
		µg/dl	116.07	95.18	-	136.97	10.45	20.89
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.56	1.28	-	1.84	0.14	0.28
		mg/dl	14.04	11.52	-	16.57	1.26	2.53
Lipase	Roche Colorimetric 37°C	U/L	35.99	28.79	-	43.19	3.60	7.20
Lithium	Spectrophotometric	mmol/l	0.97	0.86	-	1.09	0.06	0.12
		mg/dl	0.68	0.59	-	0.76	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.85	0.75	-	0.95	0.05	0.10
		mg/dl	2.07	1.82	-	2.32	0.12	0.25
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.49	1.26	-	1.71	0.11	0.22
		mg/dl	4.61	3.92	-	5.30	0.35	0.69
Potassium	ISE method - indirect	mmol/l	3.95	3.67	-	4.23	0.14	0.28
Protein Total	Biuret reaction end point	g/l	66.33	53.06	-	79.60	6.63	13.27
		g/dl	6.63	5.31	-	7.96	0.66	1.33
Sodium	ISE method - indirect	mmol/l	143.34	136.17	-	150.51	3.58	7.17
TIBC	FE+UIBC(saturation with iron)	µmol/l	38.01	30.41	-	45.62	3.80	7.60
		µg/dl	212.59	170.07	-	255.10	21.26	42.52
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.19	1.01	-	1.36	0.09	0.18
		mg/dl	104.87	89.14	-	120.60	7.86	15.73
	L/G Kinase EP. no correction	mmol/l	1.19	1.01	-	1.36	0.09	0.18
		mg/dl	104.87	89.14	-	120.60	7.86	15.73
Urea	Urease kinetic	mmol/l	7.20	6.12	-	8.28	0.54	1.08
		mg/dl	43.29	36.79	-	49.78	3.25	6.49
	BUN	mmol/l	7.20	6.12	-	8.28	0.54	1.08
		mg/dl	20.17	17.15	-	23.20	1.51	3.03
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.39	0.34	-	0.45	0.03	0.05
		mg/dl	6.61	5.75	-	7.47	0.43	0.86
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.39	0.34	-	0.45	0.03	0.05
		mg/dl	6.58	5.73	-	7.44	0.43	0.86
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.39	0.34	-	0.45	0.03	0.05
		mg/dl	6.61	5.75	-	7.47	0.43	0.86

DIRUI SERIES CS1600, CS680, CS480, CS400, CS240, CS240+ **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Total Acid Phosphatase	Naphtyl Phosphate, Kinetic 37°C	U/L	18.94	12.50	-	25.38	3.22	6.44
Albumin	Bromocresol Green	g/l	46.02	39.12	-	52.93	3.45	6.90
		g/dl	4.60	3.91	-	5.29	0.35	0.69
Alkaline Phosphatase	Diethanolamine buffer DEA 37°C	U/L	351.27	298.58	-	403.96	26.35	52.69
	AMP optimised to IFCC 37°C	U/L	258.37	219.62	-	297.13	19.38	38.76
ALT (GPT)	Tris buffer without P5P 37°C	U/L	43.02	34.42	-	51.63	4.30	8.60
Amylase Pancreatic	Liquid Ethylidene pNPG7 37°C	U/L	69.52	59.09	-	79.95	5.21	10.43
Amylase Total	Liquid Ethylidene pNPG7 37°C	U/L	95.42	81.11	-	109.73	7.16	14.31
AST (GOT)	Tris buffer without P5P 37°C	U/L	43.43	34.74	-	52.12	4.34	8.69
Bile Acids	5th Generation Colorimetric	µmol/l	27.00	21.60	-	32.40	2.70	5.40

Bilirubin Direct	Diazo with Sulphanilic Acid	µmol/l	26.82	21.46	-	32.19	2.68	5.36
		mg/dl	1.67	1.34	-	2.00	0.17	0.33
	Oxidation to Biliverdin/Vanadate	µmol/l	26.79	21.43	-	32.15	2.68	5.36
		mg/dl	1.67	1.34	-	2.00	0.17	0.33
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	34.50	27.60	-	41.40	3.45	6.90
		mg/dl	2.15	1.72	-	2.58	0.22	0.43
	Oxidation to Biliverdin/Vanadate	µmol/l	34.51	27.61	-	41.41	3.45	6.90
		mg/dl	2.15	1.72	-	2.58	0.22	0.43
Calcium	Arsenazo III	mmol/l	2.39	2.15	-	2.63	0.12	0.24
		mg/dl	9.53	8.57	-	10.48	0.48	0.95
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.16	143.68	-	186.63	10.74	21.47
CK Total	CK-NAC substrate start (DGKC) 37°C	U/L	253.32	222.92	-	283.72	15.20	30.40
	CK-NAC (IFCC) 37°C	U/L	253.26	222.87	-	283.65	15.20	30.39
Creatinine	Alkaline picrate no deproteinization	µmol/l	123.62	98.90	-	148.35	12.36	24.72
		mg/dl	1.39	1.11	-	1.67	0.14	0.28
	Enzymatic UV method	µmol/l	123.03	98.42	-	147.63	12.30	24.61
		mg/dl	1.39	1.11	-	1.67	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	57.95	49.26	-	66.64	4.35	8.69
Glucose	Hexokinase	mmol/l	6.53	5.55	-	7.50	0.49	0.98
		mg/dl	117.19	99.61	-	134.77	8.79	17.58
	Glucose oxidase	mmol/l	6.53	5.55	-	7.51	0.49	0.98
		mg/dl	117.19	99.61	-	134.77	8.79	17.58
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	21.36	17.52	-	25.21	1.92	3.85
		µg/dl	119.46	97.96	-	140.96	10.75	21.50
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.57	1.29	-	1.85	0.14	0.28
		mg/dl	14.12	11.58	-	16.67	1.27	2.54
LD (LDH)	P->L German methods 37°C	U/L	433.99	368.89	-	499.09	32.55	65.10
Lipase	Fortress Colorimetric 37°C	U/L	38.40	30.72	-	46.09	3.84	7.68
Magnesium	Xylidyl Blue	mmol/l	0.84	0.74	-	0.94	0.05	0.10
		mg/dl	2.03	1.79	-	2.27	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.51	1.28	-	1.73	0.11	0.23
		mg/dl	4.67	3.97	-	5.38	0.35	0.70
Potassium	Enzymatic	mmol/l	4.07	3.79	-	4.36	0.14	0.28
Protein Total	Biuret reaction end point	g/l	67.50	54.00	-	81.00	6.75	13.50
		g/dl	6.75	5.40	-	8.10	0.68	1.35
Sodium	Enzymatic	mmol/l	143.41	136.24	-	150.58	3.59	7.17
TIBC	Direct Colorimetric	µmol/l	39.88	31.90	-	47.85	3.99	7.98
		µg/dl	221.38	177.10	-	265.65	22.14	44.28
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.17	1.00	-	1.35	0.09	0.18
		mg/dl	103.83	88.25	-	119.40	7.79	15.57
Urea	Urease kinetic	mmol/l	7.36	6.26	-	8.47	0.55	1.10
		mg/dl	44.24	37.60	-	50.87	3.32	6.64
	BUN	mmol/l	7.36	6.26	-	8.47	0.55	1.10
		mg/dl	20.65	17.55	-	23.74	1.55	3.10
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.36	-	0.46	0.03	0.05
		mg/dl	6.89	5.99	-	7.78	0.45	0.90
	Uricase Peroxidase with ascorbate oxidase @ 546nm	mmol/l	0.41	0.36	-	0.46	0.03	0.05
		mg/dl	6.89	5.99	-	7.78	0.45	0.90
Zinc	Colorimetric without deprot.	µmol/l	28.10	22.48	-	33.72	2.81	5.62
		µg/dl	183.36	146.69	-	220.04	18.34	36.67

SIEMENS ADVIA 1200/1650/1800/2400® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	44.86	38.13	-	51.59	3.36	6.73
		g/dl	4.49	3.81	-	5.16	0.34	0.67
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/L	228.35	194.09	-	262.60	17.13	34.25
ALT (GPT)	Tris buffer without P5P 37°C	U/L	48.34	38.67	-	58.01	4.83	9.67
Amylase Total	Siemens - blocked pNPG7 37°C	U/L	104.54	88.86	-	120.22	7.84	15.68
AST (GOT)	Tris buffer without P5P 37°C	U/L	47.09	37.67	-	56.51	4.71	9.42
Bicarbonate	Enzymatic	mmol/l	15.93	12.75	-	19.12	1.59	3.19
Bile Acids	Enzymatic Colorimetric	µmol/l	27.54	22.04	-	33.05	2.75	5.51
Bilirubin Direct	Oxidation to Biliverdin/Vanadate	µmol/l	27.27	21.82	-	32.73	2.73	5.45
		mg/dl	1.60	1.28	-	1.92	0.16	0.32

Bilirubin Total	Oxidation to Biliverdin/Vanadate	µmol/l	35.51	28.41	-	42.61	3.55	7.10
		mg/dl	2.07	1.66	-	2.49	0.21	0.41
Calcium	Arsenazo III	mmol/l	2.33	2.10	-	2.57	0.12	0.23
		mg/dl	9.35	8.41	-	10.28	0.47	0.93
Chloride	ISE indirect	mmol/l	96.98	90.19	-	103.77	3.39	6.79
Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.29	3.73	-	4.85	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
CK Total	CK-NAC (IFCC) 37°C	U/L	250.42	220.37	-	280.47	15.03	30.05
Creatinine	Enzymatic UV method	µmol/l	125.05	100.04	-	150.06	12.51	25.01
		mg/dl	1.41	1.13	-	1.70	0.14	0.28
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	124.03	99.22	-	148.83	12.40	24.81
		mg/dl	1.40	1.12	-	1.69	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	55.45	47.13	-	63.76	4.16	8.32
Glucose	Hexokinase	mmol/l	6.22	5.29	-	7.15	0.47	0.93
		mg/dl	111.83	95.05	-	128.60	8.39	16.77
	Glucose oxidase	mmol/l	6.53	5.55	-	7.50	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	20.67	16.95	-	24.39	1.86	3.72
		µg/dl	116.07	95.18	-	136.97	10.45	20.89
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.46	1.19	-	1.72	0.13	0.26
		mg/dl	13.09	10.74	-	15.45	1.18	2.36
Lipase	Other Colorimetric 37°C	U/L	41.45	33.16	-	49.73	4.14	8.29
Magnesium	Xylidyl Blue	mmol/l	0.81	0.71	-	0.90	0.05	0.10
		mg/dl	1.96	1.73	-	2.20	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.53	1.30	-	1.76	0.11	0.23
		mg/dl	4.74	4.03	-	5.45	0.36	0.71
Potassium	ISE method - indirect	mmol/l	3.93	3.65	-	4.20	0.14	0.28
Protein Total	Biuret reaction end point	g/l	65.98	52.78	-	79.18	6.60	13.20
		g/dl	6.60	5.28	-	7.92	0.66	1.32
Sodium	ISE method - indirect	mmol/l	144.36	137.14	-	151.57	3.61	7.22
TIBC	FE+UIBC(saturation with iron)	µmol/l	40.36	32.28	-	48.43	4.04	8.07
		µg/dl	225.20	180.16	-	270.24	22.52	45.04
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.22	1.03	-	1.40	0.09	0.18
		mg/dl	107.93	91.74	-	124.12	8.10	16.19
Urea	Urease kinetic	mmol/l	7.49	6.37	-	8.62	0.56	1.12
		mg/dl	45.01	38.26	-	51.76	3.38	6.75
	BUN	mmol/l	7.49	6.37	-	8.62	0.56	1.12
		mg/dl	20.99	17.84	-	24.13	1.57	3.15
Uric Acid (Urate)	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.88	5.99	-	7.78	0.45	0.89

SIEMENS ATELLICA SOLUTION **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Green	g/l	45.43	38.61	-	52.24	3.41	6.81
		g/dl	4.54	3.86	-	5.22	0.34	0.68
	Bromocresol Purple	g/l	47.37	40.26	-	54.48	3.55	7.11
		g/dl	4.74	4.03	-	5.45	0.36	0.71
Alkaline Phosphatase	AMP optimised to IFCC 37°C	U/L	228.35	194.09	-	262.60	17.13	34.25
ALT (GPT)	Tris buffer without P5P 37°C	U/L	47.24	37.80	-	56.69	4.72	9.45
Amylase Pancreatic	Immunoinhibition EPS substrate 37°C	U/L	82.68	70.28	-	95.08	6.20	12.40
Amylase Total	Siemens - blocked pNPG7 37°C	U/L	116.84	99.31	-	134.36	8.76	17.53
AST (GOT)	Tris buffer without P5P 37°C	U/L	44.54	35.63	-	53.45	4.45	8.91
Bicarbonate	Enzymatic	mmol/l	16.17	12.94	-	19.40	1.62	3.23
Bilirubin Direct	Oxidation to Biliverdin/Vanadate	µmol/l	28.13	22.50	-	33.75	2.81	5.63
		mg/dl	1.64	1.31	-	1.97	0.16	0.33
Bilirubin Total	Oxidation to Biliverdin/Vanadate	µmol/l	35.40	28.32	-	42.48	3.54	7.08
		mg/dl	2.07	1.66	-	2.49	0.21	0.41
Calcium	Cresolphthalein complexone	mmol/l	2.36	2.12	-	2.60	0.12	0.24
		mg/dl	9.50	8.55	-	10.45	0.47	0.95
	Arsenazo III	mmol/l	2.39	2.15	-	2.63	0.12	0.24
		mg/dl	9.59	8.63	-	10.55	0.48	0.96
Chloride	ISE indirect	mmol/l	97.93	91.07	-	104.78	3.43	6.85

Cholesterol	Cholesterol Oxidase - Abell Kendall	mmol/l	4.32	3.76	-	4.89	0.28	0.56
		mg/dl	167.05	145.33	-	188.77	10.86	21.72
	Cholesterol Oxidase - IDMS	mmol/l	4.31	3.75	-	4.87	0.28	0.56
		mg/dl	165.96	144.38	-	187.53	10.79	21.57
CK Total	CK-NAC (IFCC) 37°C	U/L	251.81	221.59	-	282.03	15.11	30.22
Creatinine	Alkaline picrate no deproteinization	µmol/l	121.98	97.58	-	146.37	12.20	24.40
		mg/dl	1.37	1.10	-	1.65	0.14	0.27
	Jaffe rate blanked comp. (-26 µmol/l)	µmol/l	124.03	99.22	-	148.83	12.40	24.81
		mg/dl	1.40	1.12	-	1.69	0.14	0.28
gamma-GT	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	U/L	58.53	49.75	-	67.31	4.39	8.78
Glucose	Hexokinase	mmol/l	6.30	5.35	-	7.24	0.47	0.94
		mg/dl	114.00	96.90	-	131.10	8.55	17.10
	Glucose oxidase	mmol/l	6.50	5.53	-	7.48	0.49	0.98
		mg/dl	117.25	99.67	-	134.84	8.79	17.59
Iron	Colorimetric without ppt.(Ferrozine)	µmol/l	21.00	17.22	-	24.78	1.89	3.78
		µg/dl	117.18	96.09	-	138.27	10.55	21.09
Lactate	Colorimetric Lactate Oxidase	mmol/l	1.52	1.25	-	1.79	0.14	0.27
		mg/dl	13.73	11.26	-	16.20	1.24	2.47
Lipase	Other Colorimetric 37°C	U/L	40.35	32.28	-	48.43	4.04	8.07
Lithium	Spectrophotometric	mmol/l	0.95	0.83	-	1.06	0.06	0.11
		mg/dl	0.66	0.58	-	0.73	0.04	0.08
Magnesium	Xylidyl Blue	mmol/l	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	1.99	1.75	-	2.23	0.12	0.24
Phosphate Inorganic	Phosphomolybdate UV	mmol/l	1.53	1.30	-	1.76	0.11	0.23
		mg/dl	4.74	4.03	-	5.45	0.36	0.71
Potassium	ISE method - indirect	mmol/l	3.87	3.60	-	4.14	0.14	0.27
Protein Total	Biuret reaction end point	g/l	66.80	53.44	-	80.16	6.68	13.36
		g/dl	6.68	5.34	-	8.02	0.67	1.34
Sodium	ISE method - indirect	mmol/l	143.34	136.17	-	150.51	3.58	7.17
TIBC	Direct Colorimetric	µmol/l	43.33	34.66	-	51.99	4.33	8.67
		µg/dl	242.31	193.85	-	290.78	24.23	48.46
Triglycerides	Lipase/GPO-PAP no correction	mmol/l	1.24	1.05	-	1.42	0.09	0.19
		mg/dl	110.05	93.54	-	126.56	8.25	16.51
Urea	Urease kinetic	mmol/l	7.56	6.43	-	8.70	0.57	1.13
		mg/dl	45.42	38.60	-	52.23	3.41	6.81
	BUN	mmol/l	7.56	6.43	-	8.70	0.57	1.13
		mg/dl	21.19	18.01	-	24.37	1.59	3.18
Uric Acid (Urate)	Uricase peroxidase with ascorbate oxidase	mmol/l	0.42	0.36	-	0.47	0.03	0.05
		mg/dl	6.97	6.06	-	7.87	0.45	0.91
	Uricase peroxidase no ascorbate oxidase	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.91	6.01	-	7.80	0.45	0.90

SIEMENS DIMENSION EXL® **LOT NO.** HSN106 **EXP.** Jun-29

ANALYTE	METHOD	UNITS	TARGET	RANGE			1SD	2SD
Albumin	Bromocresol Purple	g/l	47.83	40.65	-	55.00	3.59	7.17
		g/dl	4.78	4.07	-	5.50	0.36	0.72
Alkaline Phosphatase	Siemens Dimension AMP buffer 37°C	U/L	235.14	199.87	-	270.41	17.64	35.27
ALT (GPT)	Tris buffer with P5P 37°C	U/L	51.64	41.31	-	61.97	5.16	10.33
Amylase Total	Siemens 2-chloro-pNPG3 37°C	U/L	107.00	90.95	-	123.05	8.02	16.05
AST (GOT)	Tris buffer with P5P 37°C	U/L	54.72	43.78	-	65.67	5.47	10.94
	Siemens Dade Standard Non IFCC Correlated 37°C	U/L	56.00	44.80	-	67.20	5.60	11.20
Bilirubin Direct	Diazo/Sulphanilic Siemens Dimension	µmol/l	20.27	16.22	-	24.33	2.03	4.05
		mg/dl	1.19	0.95	-	1.42	0.12	0.24
Bilirubin Total	Diazo with Sulphanilic Acid	µmol/l	33.14	26.51	-	39.76	3.31	6.63
		mg/dl	1.94	1.55	-	2.33	0.19	0.39
Calcium	Cresolphthalein complexone	mmol/l	2.30	2.07	-	2.53	0.12	0.23
		mg/dl	9.24	8.31	-	10.16	0.46	0.92
Chloride	ISE indirect	mmol/l	93.36	86.83	-	99.90	3.27	6.54
Cholesterol	Dimension-Siemens reagents	mmol/l	3.79	3.30	-	4.28	0.25	0.49
		mg/dl	146.31	127.29	-	165.33	9.51	19.02
CK Total	CK-NAC (IFCC) 37°C	U/L	247.64	217.92	-	277.35	14.86	29.72
Creatinine	Alkaline picrate no deproteinization	µmol/l	128.13	102.50	-	153.75	12.81	25.63
		mg/dl	1.45	1.16	-	1.73	0.14	0.29
	Jaffe rate blanked	µmol/l	126.08	100.86	-	151.29	12.61	25.22
		mg/dl	1.42	1.14	-	1.71	0.14	0.28

gamma-GT	**Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C**	U/L	61.61	52.37	-	70.85	4.62	9.24
	Siemens Dimension (non IFCC) 37°C	U/L	69.82	59.35	-	80.29	5.24	10.47
Glucose	**Hexokinase**	mmol/l	6.60	5.61	-	7.59	0.50	0.99
		mg/dl	119.43	101.51	-	137.34	8.96	17.91
Iron	**Colorimetric with ppt.(Ferrene)**	µmol/l	19.90	16.32	-	23.48	1.79	3.58
		µg/dl	111.65	91.56	-	131.75	10.05	20.10
	Colorimetric without ppt.(Ferrozine)	µmol/l	19.79	16.23	-	23.35	1.78	3.56
		µg/dl	110.55	90.65	-	130.45	9.95	19.90
Lipase	**Colorimetric Siemens Dimension (LIPL Kit) 37°C**	U/L	39.26	31.41	-	47.12	3.93	7.85
Magnesium	**Methylthymol blue**	mmol/l	0.82	0.72	-	0.92	0.05	0.10
		mg/dl	1.99	1.75	-	2.23	0.12	0.24
Phosphate Inorganic	**Phosphomolybdate enzymatic**	mmol/l	1.59	1.35	-	1.83	0.12	0.24
		mg/dl	4.94	4.20	-	5.68	0.37	0.74
	Phosphomolybdate UV	mmol/l	1.60	1.36	-	1.84	0.12	0.24
		mg/dl	4.97	4.22	-	5.71	0.37	0.75
Potassium	**ISE method - indirect**	mmol/l	3.83	3.56	-	4.10	0.13	0.27
Protein Total	**Biuret reaction end point**	g/l	69.61	55.68	-	83.53	6.96	13.92
		g/dl	6.96	5.57	-	8.35	0.70	1.39
Sodium	**ISE method - indirect**	mmol/l	143.34	136.17	-	150.51	3.58	7.17
Triglycerides	**Lipase/GPO-PAP no correction**	mmol/l	1.11	0.94	-	1.28	0.08	0.17
		mg/dl	98.31	83.56	-	113.05	7.37	14.75
Urea	**Urease kinetic**	mmol/l	7.53	6.40	-	8.66	0.56	1.13
		mg/dl	45.32	38.52	-	52.11	3.40	6.80
	BUN	mmol/l	7.53	6.40	-	8.66	0.56	1.13
		mg/dl	21.19	18.01	-	24.37	1.59	3.18
Uric Acid (Urate)	**Uricase peroxidase no ascorbate oxidase**	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.85	5.96	-	7.74	0.44	0.89
	Spectrophotometric at 280-290	mmol/l	0.41	0.35	-	0.46	0.03	0.05
		mg/dl	6.81	5.92	-	7.69	0.44	0.89



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