

MAS[®] Liquimmune[®]

LIQUID ASSAYED IMMUNOASSAY CONTROL

IVD

INTENDED USE

MAS[®] Liquimmune[®] is intended for use in the clinical laboratory as a consistent test sample of known concentration for monitoring assay conditions in many immunological determinations. Include **Liquimmune** with patient serum specimens when assaying for any of the listed constituents. Assay values are provided for the specific systems listed. The user can compare observations with expected ranges as a means of assuring consistent performance of reagent and instrument.

PRODUCT DESCRIPTION

Liquimmune is a liquid stable control material prepared from human serum. Analyte levels are adjusted with various pure chemicals and preparations from human tissue or body fluids. Prostate specific antigen is from human seminal fluid, alpha-fetoprotein is from human cord serum and carcinoembryonic antigen is from hepatic metastases of human colon adenocarcinoma. Preservatives and stabilizers are added to maintain product integrity.

CAUTION/WARNING: **Liquimmune** is prepared from human source material. Components of the control which are derived from human source material have been tested using FDA accepted methods and found non-reactive for Hepatitis B Surface antigen (HBsAg), Hepatitis C (HCV), HIV-1 and HIV-2. However, no test method can offer complete assurance that products derived from human source material are free of infectious agents. This control must be handled in accordance with recommendations from Centers for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories, 2009." The packaging of this product contains dry natural rubber.

STORAGE AND STABILITY

Unopened vials of **Liquimmune** are stable for 90 days from receipt when stored at 2-8°C. Once opened, vials of **Liquimmune** are stable for 30 days when stored tightly capped at 2-8°C. This product is stable until the expiration date on the box when stored at -25 to -15°C. **Self-defrosting freezers are not suitable.** If any constituent recovery falls outside the published ranges, contact MAS Technical Assistance for current peer group data. Peer comparison data and latest QC lot specific updates are available online through Lab Link xL Quality Assurance Program at www.maslablink.com.

Bacterial contamination produces an increase in turbidity and/or a characteristic odor. Discard vial if evidence of microbial contamination is observed.

CONTROL RANGES

The published control ranges are based upon a combination of replicate assays of representative samples by participating laboratories, instrument/reagent manufacturers and direct correlation with other analytical systems in accordance with established protocol. Instrument values provided are specific to this lot of control only and are intended to assist the laboratory in establishing its own means and ranges. All values have been assigned with instruments and reagents available at the time of assay and expected values may vary with different reagents and/or methodologies. Laboratory established means should fall within the assigned ranges although subsequent instrument, reagent or calibration modifications may invalidate assigned values.

Peer comparison data and latest QC lot specific updates are available online through LabLink[®] xL Quality Assurance Program at www.maslablink.com. Refer to the Technical Assistance section for contact information.

INSTRUCTIONS FOR USE

Thaw control at room temperature (18-25°C) on a rocker or with periodic gentle inversion until liquid and then immediately store at 2-8°C. Thoroughly mix the contents of the vial before each use by gently inverting for several minutes. Once control is removed from 2-8°C use immediately. Open the vial and transfer the required quantity of control into a clean sample cup. Replace cap immediately and store the opened vial at 2-8°C.

ONCE THAWED, DO NOT REFREEZE THE CONTROL.

Dropper tips are available to help minimize exposure of control samples to air. DO NOT use a syringe needle to withdraw sample through the control bottle cap.

QUALITY CONTROL

All quality control requirements should be performed in conformance with local, state and/or federal regulations or accreditation requirements.

LIMITATIONS OF PROCEDURES

Compatibility of **Liquimmune** has been demonstrated only with methods shown in this insert. Caution should be employed when using these controls with methods for which values have not been printed.

Liquimmune contains Immunoglobulin A (IgA), Immunoglobulin G (IgG) and Immunoglobulin M (IgM); however, these constituent levels have not been adjusted but are at levels found in the human serum used in preparation of the controls. Thyroglobulin from human thyroid, Thyroid Binding Globulin from human serum, and Benzodiazepines are also weighed into **Liquimmune**. However, no claim is made for expected values nor the stability of these constituents. Thyroglobulin and Thyroid Binding Globulin are listed here since cross reactivity with other constituents may occur with certain assay systems.

Values assigned for CK-MB were established using analytical methods measuring mass (ng/mL). No claim is made for expected values or stability of CK-MB determined with analytical methods measuring activity (IU/mL).

Insulin and CK-MB may decrease over the product shelf life.

The specificity of antibodies used in immunoassay procedures may vary between lots. As with patient specimens, cross-reactivities between certain constituents in this control serum may occur with some reagents. Consult reagent manufacturer's package insert regarding possible interferences.

Accurate and reproducible results are dependent upon properly functioning instruments, reagents, and good laboratory technique. This product is intended for use as an assayed control for quantitative assays of listed constituents in human serum. This product is not intended for use as a calibrator. For professional use only.

TECHNICAL ASSISTANCE

In the USA, for technical assistance, call 800-232-3342 or 510-979-5417. For insert updates and information, if your laboratory subscribes to LabLink xL, visit www.maslablink.com and select LabLink Extra. Alternatively, to subscribe to LabLink xL call 800-232-3342 or 510-979-5451.

Outside of the USA, if your laboratory subscribes to LabLink xL, visit www.maslablink.com select LabLink Extra. Alternatively, please contact your local sales office or authorized distributor.

Cat. No.	Description	Size
LIG-101	MAS [®] Liquimmune [®] , Level 1	6 x 5 mL
LIG-202	MAS [®] Liquimmune [®] , Level 2	6 x 5 mL
LIG-303	MAS [®] Liquimmune [®] , Level 3	6 x 5 mL
286-606	Dropper Tips	Pkg. 100



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IVD

U	CON						SI							
	LIA24091A		LIA24092A		LIA24093A		LIA24091A		LIA24092A		LIA24093A		U	
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ABBOTT AEROSET/ARCHITECT SYSTEMS														
Acetaminophen														
Enzymatic (3R11) Sekisui (506)	12.6	10.1 - 15.1	73.2	58.6 - 87.9	133	106 - 159	µg/mL	83.3	66.6 - 99.9	484	387 - 581	877	701 - 1052	µmol/L
Alpha-Fetoprotein (AFP)														
CMIA (3P36)	12.7	10.2 - 15.2	74.6	59.7 - 89.5	134	108 - 161	ng/mL	10.5	8.40 - 12.6	61.6	49.3 - 73.9	111	88.8 - 133	IU/mL
Alpha-Fetoprotein (AFP)														
CMIA (7K67)	**		**		**		ng/mL	**		**		**		IU/mL
Amikacin PETINIA (6L35)	**		**		**		µg/mL	**		**		**		µmol/L
Carbamazepine														
CMIA (1P36)	4.10	3.28 - 4.92	10.5	8.38 - 12.6	>15.0		µg/mL	17.4	13.9 - 20.8	44.3	35.5 - 53.2	>63.5		µmol/L
Carbamazepine														
PETINIA (5P05)	**		**		**		µg/mL	**		**		**		µmol/L
Carcinoembryonic Antigen (CEA)														
CMIA (7K68)	1.26	0.89 - 1.63	11.8	9.45 - 14.2	22.6	17.7 - 27.4	ng/mL	1.26	0.89 - 1.63	11.8	9.45 - 14.2	22.6	17.7 - 27.4	µg/L
Cortisol CMIA (8D15)	4.24	3.27 - 5.20	17.3	13.8 - 20.8	29.5	23.6 - 35.4	µg/dL	117	90.2 - 144	477	382 - 573	814	651 - 977	nmol/L
Creatine Kinase-MB (CK-MB)														
CMIA (STAT) (2K42)	3.22	2.58 - 3.86	29.7	23.8 - 35.6	53.6	42.8 - 64.3	ng/mL	3.22	2.58 - 3.86	29.7	23.8 - 35.6	53.6	42.8 - 64.3	µg/L
Creatine Kinase-MB (CK-MB)														
Immunoinhibition (6K25)	<3.00		24.1	19.3 - 29.0	48.8	39.1 - 58.6	U/L	<0.05		0.40	0.32 - 0.48	0.82	0.65 - 0.98	µkat/L
DHEA-Sulfate (DHEA-S)														
CMIA (8K27)	90.0	72.0 - 108	298	238 - 357	509	407 - 611	µg/dL	2.44	1.95 - 2.93	8.07	6.46 - 9.68	13.8	11.0 - 16.6	µmol/L
Digoxin CMIA (1P32)	0.71	0.57 - 0.85	1.84	1.47 - 2.21	3.09	2.47 - 3.70	ng/mL	0.91	0.73 - 1.09	2.35	1.88 - 2.83	3.95	3.16 - 4.74	nmol/L
Digoxin PETINIA (1E06)	**		**		**		ng/mL	**		**		**		nmol/L
Estradiol CMIA (7K72)	66.4	46.5 - 86.2	235	188 - 282	423	338 - 507	pg/mL	244	171 - 317	862	689 - 1034	1552	1241 - 1862	pmol/L
Ferritin CMIA (7K59)	27.2	21.8 - 32.7	275	220 - 330	513	410 - 616	ng/mL	27.2	21.8 - 32.7	275	220 - 330	513	410 - 616	µg/L
Ferritin CMIA (7K59 Non U.S.)	26.1	20.9 - 31.3	256	205 - 307	479	383 - 574	ng/mL	26.1	20.9 - 31.3	256	205 - 307	479	383 - 574	µg/L
Ferritin Immunoturbidimetric (6K41)	**		**		**		ng/mL	**		**		**		µg/L
Ferritin Immunoturbidimetric (6K41 Non U.S.)	**		**		**		ng/mL	**		**		**		µg/L
Folate CMIA (1P74)	2.53	<1.60 - 3.89	6.18	4.49 - 7.86	11.5	8.99 - 14.0	ng/mL	5.72	<3.63 - 8.82	14.0	10.2 - 17.8	26.0	20.4 - 31.7	nmol/L
Follicle Stimulating Hormone (FSH)														
CMIA (7K75)	4.31	3.45 - 5.18	35.8	28.6 - 43.0	68.5	54.8 - 82.2	mIU/mL	4.31	3.45 - 5.18	35.8	28.6 - 43.0	68.5	54.8 - 82.2	IU/L
Gentamicin														
CMIA (1P31)	1.48	1.18 - 1.77	4.27	3.41 - 5.12	7.23	5.78 - 8.67	µg/mL	3.10	2.48 - 3.72	8.93	7.14 - 10.7	15.1	12.1 - 18.2	µmol/L
Gentamicin														
PETINIA (1E11)	**		**		**		µg/mL	**		**		**		µmol/L
Human Chorionic Gonadotropin-Beta (hCG)														
CMIA (Routine) (7K78)	**		**		**		mIU/mL	**		**		**		IU/L
Human Chorionic Gonadotropin-Beta (hCG)														
CMIA (STAT) (7K78)	5.71	3.34 - 8.09	25.1	19.6 - 30.6	333	267 - 400	mIU/mL	5.71	3.34 - 8.09	25.1	19.6 - 30.6	333	267 - 400	IU/L
Homocysteine														
CMIA (1L71)	**		**		**		µmol/L	**		**		**		µmol/L
Immunoglobulin E (IgE)														
Latex Particles (6K42)	45.0	32.2 - 57.8	195	156 - 235	356	285 - 427	IU/mL	45.0	32.2 - 57.8	195	156 - 235	356	285 - 427	kIU/L
Immunoglobulin E (IgE)														
Latex Particles (6K42 Non U.S.)	45.0	29.9 - 60.1	211	168 - 253	365	292 - 438	IU/mL	45.0	29.9 - 60.1	211	168 - 253	365	292 - 438	kIU/L
Insulin CMIA (8K41)	**		**		**		µIU/mL	**		**		**		pmol/L
Lithium Colorimetric (8L25)	0.79	0.63 - 0.94	1.28	1.02 - 1.53	1.75	1.40 - 2.10	mEq/L	0.79	0.63 - 0.94	1.28	1.02 - 1.53	1.75	1.40 - 2.10	mmol/L
Luteinizing Hormone (LH)														
CMIA (2P40)	3.70	2.96 - 4.44	27.5	22.0 - 33.1	50.7	40.5 - 60.8	mIU/mL	3.70	2.96 - 4.44	27.5	22.0 - 33.1	50.7	40.5 - 60.8	IU/L
Phenobarbital														
CMIA (1P33)	15.7	12.5 - 18.8	34.6	27.7 - 41.5	53.7	43.0 - 64.5	µg/mL	67.5	54.0 - 81.0	149	119 - 179	231	185 - 278	µmol/L
Phenytoin														
CMIA (1P34)	7.10	5.68 - 8.52	15.9	12.7 - 19.1	24.5	19.6 - 29.5	µg/mL	28.2	22.5 - 33.8	62.9	50.4 - 75.5	97.3	77.8 - 117	µmol/L
Phenytoin														
EIA (5P08)	**		**		**		µg/mL	**		**		**		µmol/L
Progesterone														
CMIA (7K77)	0.52	0.41 - 0.62	6.31	5.05 - 7.57	13.9	11.1 - 16.6	ng/mL	1.64	1.31 - 1.97	20.1	16.1 - 24.1	44.1	35.3 - 52.9	nmol/L
Prolactin CMIA (7K76)	9.74	7.74 - 11.7	30.7	24.0 - 37.5	51.5	40.5 - 62.5	ng/mL	0.42	0.34 - 0.51	1.34	1.04 - 1.63	2.24	1.76 - 2.72	nmol/L
Prostate Specific Antigen, Free (fPSA)														
CMIA (7K71)	**		**		**		ng/mL	**		**		**		µg/L
Prostate Specific Antigen, Free (fPSA)														
CMIA (7K71 Non U.S.)	0.049	0.039 - 0.059	1.14	0.91 - 1.36	3.19	2.55 - 3.83	ng/mL	0.049	0.039 - 0.059	1.14	0.91 - 1.36	3.19	2.55 - 3.83	µg/L
Prostate Specific Antigen, Total (PSA)														
CMIA (6C06)	0.78	0.62 - 0.93	2.41	1.93 - 2.90	23.3	18.7 - 28.0	ng/mL	0.78	0.62 - 0.93	2.41	1.93 - 2.90	23.3	18.7 - 28.0	µg/L
Prostate Specific Antigen, Total (PSA)														
CMIA (7K70 Non U.S.)	0.75	0.60 - 0.90	2.42	1.92 - 2.92	23.6	18.9 - 28.3	ng/mL	0.75	0.60 - 0.90	2.42	1.92 - 2.92	23.6	18.9 - 28.3	µg/L
Quinidine PETINIA (6L31)	**		**		**		µg/mL	**		**		**		µmol/L
Salicylate														
Enzymatic/Colorimetric (3K01)	6.43	5.14 - 7.72	33.0	26.4 - 39.6	59.5	47.6 - 71.4	mg/dL	0.47	0.37 - 0.56	2.39	1.91 - 2.87	4.31	3.45 - 5.17	mmol/L
Testosterone														
CMIA (2P13)	72.3	57.9 - 86.8	325	260 - 390	576	461 - 691	ng/dL	2.51	2.01 - 3.01	11.3	9.03 - 13.5	20.0	16.0 - 24.0	nmol/L
Theophylline														
CMIA (1P29)	**		**		**		µg/mL	**		**		**		µmol/L

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ABBOTT AEROSET/ARCHITECT SYSTEMS (continued)																
Theophylline																
Enzyme Immunoassay (5P06)	5.94	4.75 - 7.13	13.5	10.8 - 16.2	22.9	18.3 - 27.4	µg/mL	33.0	26.4 - 39.6	74.8	59.9 - 89.8	127	102 - 152	µmol/L		
Thyroid Stimulating Hormone (TSH)																
CMIA (7K62)	0.25	0.20 - 0.31	13.6	10.9 - 16.4	25.3	20.2 - 30.3	µIU/mL	0.25	0.20 - 0.31	13.6	10.9 - 16.4	25.3	20.2 - 30.3	mIU/L		
Thyroid Uptake																
CMIA (2K48)	17.9	<15.0 - 21.5	22.0	17.6 - 26.4	29.5	23.6 - 35.5	%U	17.9	<15.0 - 21.5	22.0	17.6 - 26.4	29.5	23.6 - 35.5	%U		
Thyroxine, Free (FT4)																
CMIA (7K65)	1.10	0.88 - 1.32	1.83	1.46 - 2.20	3.36	2.69 - 4.03	ng/dL	14.1	11.3 - 17.0	23.6	18.8 - 28.3	43.3	34.6 - 51.9	pmol/L		
Thyroxine, Total (T4)																
CMIA (7K66)	9.54	7.63 - 11.4	9.90	7.92 - 11.9	9.91	7.93 - 11.9	µg/dL	123	98.2 - 147	127	102 - 153	128	102 - 153	nmol/L		
Tobramycin																
PETINIA (7F93)	2.66	2.13 - 3.19	5.75	4.60 - 6.90	7.28	5.82 - 8.74	µg/mL	5.69	4.55 - 6.83	12.3	9.84 - 14.8	15.6	12.5 - 18.7	µmol/L		
Tricyclic Antidepressants (TCA)																
EIA (Multigent) (6L28)	**		**		**		ng/mL	**		**		**		nmol/L		
Triiodothyronine, Free (FT3)																
CMIA (7K63)	1.74	1.34 - 2.14	3.69	2.95 - 4.42	6.62	5.29 - 7.94	pg/mL	2.68	2.07 - 3.29	5.66	4.53 - 6.80	10.2	8.13 - 12.2	pmol/L		
Triiodothyronine, Total (T3)																
CMIA (7K64)	**		**		**		ng/mL	**		**		**		nmol/L		
Valproic Acid																
CMIA (1P35)	41.8	33.4 - 50.1	84.3	67.4 - 101	128	102 - >150	µg/mL	290	232 - 348	584	467 - 701	887	710 - >1040	µmol/L		
Valproic Acid																
PETINIA (1E13)	**		**		**		µg/mL	**		**		**		µmol/L		
Vancomycin																
CMIA (1P30)	8.43	6.74 - 10.1	24.8	19.9 - 29.8	40.0	32.0 - 48.0	µg/mL	5.82	4.65 - 6.98	17.1	13.7 - 20.6	27.6	22.1 - 33.1	µmol/L		
Vancomycin																
PETINIA (6E44)	**		**		**		µg/mL	**		**		**		µmol/L		
Vitamin B12																
CMIA (7K61)	300	240 - 360	563	450 - 675	845	676 - 1014	pg/mL	222	177 - 266	415	332 - 498	623	499 - 748	pmol/L		

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ABBOTT ALINITY SYSTEMS														
Alpha-Fetoprotein (AFP) CMIA (07P90)	12.2	9.78 - 14.7	72.7	58.1 - 87.2	132	106 - 158	ng/mL	10.1	8.08 - 12.1	60.0	48.0 - 72.0	109	87.2 - 131	IU/mL
Carcinoembryonic Antigen (CEA) CMIA (07P62)	1.80	<1.73 - 2.16	11.1	8.88 - 13.3	21.2	17.0 - 25.5	ng/mL	1.80	<1.73 - 2.16	11.1	8.88 - 13.3	21.2	17.0 - 25.5	µg/L
Cortisol CMIA (08P33)	4.33	3.46 - 5.20	18.1	14.5 - 21.7	30.2	24.2 - 36.3	µg/dL	119	95.6 - 143	500	400 - 600	834	667 - 1000	nmol/L
DHEA-Sulfate (DHEA-S) CMIA (09P37)	97.2	77.8 - 117	306	245 - 367	532	426 - 639	µg/dL	2.63	2.11 - 3.16	8.30	6.64 - 9.96	14.4	11.5 - 17.3	µmol/L
Digoxin PETINIA (08P37)	0.84	0.67 - 1.00	1.94	1.55 - 2.33	3.11	2.49 - 3.73	ng/mL	1.07	0.86 - 1.29	2.49	1.99 - 2.98	3.98	3.19 - 4.78	nmol/L
Estradiol CMIA (07P50)	66.9	53.5 - 80.3	233	187 - 280	436	349 - 523	pg/mL	246	196 - 295	857	685 - 1028	1600	1280 - 1920	pmol/L
Ferritin CMIA (07P65)	27.7	22.2 - 33.2	259	207 - 311	478	383 - 574	ng/mL	27.7	22.2 - 33.2	259	207 - 311	478	383 - 574	µg/L
Folate CMIA (08P14)	2.52	<2.20 - 3.27	6.02	4.82 - 7.22	11.3	9.00 - 13.5	ng/mL	5.71	<4.99 - 7.40	13.6	10.9 - 16.4	25.5	20.4 - 30.6	nmol/L
Follicle Stimulating Hormone (FSH) CMIA (07P49)	4.44	3.55 - 5.33	36.5	29.2 - 43.7	67.3	53.8 - 80.7	mIU/mL	4.44	3.55 - 5.33	36.5	29.2 - 43.7	67.3	53.8 - 80.7	IU/L
Gentamicin PETINIA (08P55)	1.58	1.27 - 1.90	4.58	3.66 - 5.50	6.84	5.47 - 8.20	µg/mL	3.32	2.65 - 3.98	9.59	7.67 - 11.5	14.3	11.5 - 17.2	µmol/L
Human Chorionic Gonadotropin-Beta (hCG) CMIA (STAT) (07P51)	5.61	4.49 - 6.73	24.8	19.9 - 29.8	336	269 - 403	mIU/mL	5.61	4.49 - 6.73	24.8	19.9 - 29.8	336	269 - 403	IU/L
Homocysteine CMIA (09P28)	4.79	3.83 - 5.75	13.0	10.4 - 15.6	21.9	17.5 - 26.3	µmol/L	4.79	3.83 - 5.75	13.0	10.4 - 15.6	21.9	17.5 - 26.3	µmol/L
Insulin CMIA (04T75)	7.58	6.06 - 9.10	58.4	46.7 - 70.1	111	88.4 - 133	µIU/mL	52.6	42.1 - 63.2	406	325 - 487	767	614 - 921	pmol/L
Lithium Colorimetric (08P53)	0.83	0.66 - 0.99	1.36	1.08 - 1.63	1.85	1.48 - 2.22	mEq/L	0.83	0.66 - 0.99	1.36	1.08 - 1.63	1.85	1.48 - 2.22	mmol/L
Luteinizing Hormone (LH) CMIA (07P91)	3.50	2.80 - 4.20	27.5	22.0 - 33.0	51.9	41.5 - 62.2	mIU/mL	3.50	2.80 - 4.20	27.5	22.0 - 33.0	51.9	41.5 - 62.2	IU/L
Phenobarbital PETINIA (09P85)	15.4	12.3 - 18.4	30.5	24.4 - 36.6	48.3	38.7 - 58.0	µg/mL	66.2	52.9 - 79.4	131	105 - 158	208	167 - 250	µmol/L
Phenytoin Enzyme Immunoassay (08P54)	7.80	6.24 - 9.36	16.2	12.9 - 19.4	26.2	21.0 - 31.4	µg/mL	30.9	24.7 - 37.1	64.1	51.2 - 76.9	104	83.1 - 125	µmol/L
Progesterone CMIA (08P36)	0.54	<0.50 - 0.65	6.00	4.80 - 7.20	13.5	10.8 - 16.2	ng/mL	1.72	<1.59 - 2.06	19.1	15.3 - 22.9	43.0	34.4 - 51.6	nmol/L
Prolactin CMIA (07P66)	9.68	7.74 - 11.6	29.9	23.9 - 35.9	49.7	39.8 - 59.7	ng/mL	0.42	0.34 - 0.51	1.30	1.04 - 1.56	2.16	1.73 - 2.60	nmol/L
Prostate Specific Antigen, Total (PSA) CMIA (07P92)	0.76	0.61 - 0.92	2.38	1.90 - 2.86	22.5	18.0 - 27.0	ng/mL	0.76	0.61 - 0.92	2.38	1.90 - 2.86	22.5	18.0 - 27.0	µg/L
Prostate Specific Antigen, Free (fPSA) CMIA (07P93)	0.05	0.04 - 0.06	1.11	0.89 - 1.33	3.16	2.53 - 3.79	ng/mL	0.05	0.04 - 0.06	1.11	0.89 - 1.33	3.16	2.53 - 3.79	µg/L
Testosterone CMIA (07P68)	78.2	62.6 - 93.8	350	280 - 420	624	500 - 749	ng/dL	2.71	2.17 - 3.26	12.1	9.72 - 14.6	21.7	17.3 - 26.0	nmol/L
Theophylline Enzyme Immunoassay (09P89)	5.88	4.70 - 7.05	13.7	10.2 - 17.1	22.8	18.2 - 27.3	µg/mL	32.6	26.1 - 39.1	75.9	56.7 - 95.2	126	101 - 152	µmol/L
Thyroid Stimulating Hormone (TSH) CMIA (07P48)	0.26	0.21 - 0.31	13.9	11.1 - 16.7	25.6	20.5 - 30.7	µIU/mL	0.26	0.21 - 0.31	13.9	11.1 - 16.7	25.6	20.5 - 30.7	mIU/L
Thyroxine, Free (FT4) CMIA (07P70)	1.00	0.80 - 1.20	1.67	1.34 - 2.00	2.99	2.39 - 3.59	ng/dL	12.9	10.3 - 15.4	21.5	17.2 - 25.8	38.5	30.8 - 46.2	pmol/L
Tobramycin PETINIA (09P90)	2.69	2.15 - 3.23	6.03	4.82 - 7.24	7.10	5.68 - 8.52	µg/mL	5.75	4.60 - 6.90	12.9	10.3 - 15.5	15.2	12.1 - 18.2	µmol/L
Triiodothyronine, Free (FT3) CMIA (07P69)	1.69	<1.50 - 2.10	3.71	2.97 - 4.45	6.67	5.34 - 8.00	pg/mL	2.60	<2.30 - 3.23	5.70	4.56 - 6.84	10.2	8.20 - 12.3	pmol/L
Valproic Acid PETINIA (09P92)	39.7	31.8 - 47.6	82.7	66.2 - 99.2	136	109 - >150	µg/mL	275	220 - 330	573	459 - 688	941	753 - >1040	µmol/L
Vancomycin PETINIA (08P52)	7.54	6.03 - 9.05	20.6	16.5 - 24.7	34.5	27.6 - 41.4	µg/mL	5.20	4.16 - 6.24	14.2	11.4 - 17.0	23.8	19.0 - 28.6	µmol/L
Vitamin B12 CMIA (07P67)	327	262 - 392	601	480 - 721	903	722 - 1084	pg/mL	241	193 - 289	443	354 - 532	666	533 - 799	pmol/L



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IVD

U	CON						SI							
	LIA24091A		LIA24092A		LIA24093A		LIA24091A		LIA24092A		LIA24093A		U	
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BECKMAN AU SERIES														
Acetaminophen EIA (1086 DRI)	12.6	9.53 - 15.6	71.2	57.0 - 85.5	138	110 - 166	μg/mL	83.2	63.1 - 103	471	377 - 565	914	731 - 1096	μmol/L
Acetaminophen Emit Tox (OSR7A229)	12.4	9.70 - 15.1	71.9	57.6 - 86.3	134	107 - 161	μg/mL	82.0	64.2 - 99.9	476	381 - 571	888	710 - 1065	μmol/L
Amikacin PETIA (QMS)	6.89	5.51 - 8.27	16.8	13.4 - 20.1	26.6	21.3 - 31.9	μg/mL	11.8	9.42 - 14.1	28.6	22.9 - 34.3	45.4	36.3 - 54.5	μmol/L
Carbamazepine Emit 2000 (OSR4F229)	3.74	2.99 - 4.49	9.75	7.80 - 11.7	16.0	12.8 - 19.2	μg/mL	15.8	12.7 - 19.0	41.2	33.0 - 49.5	67.6	54.1 - 81.1	μmol/L
Carbamazepine CEDIA (OSR6414/100006)	2.92	2.33 - 3.50	8.68	6.95 - 10.4	14.1	11.3 - 17.0	μg/mL	12.3	9.87 - 14.8	36.8	29.4 - 44.1	59.8	47.8 - 71.8	μmol/L
Creatine Kinase-MB (CK-MB) Immunoturbidimetric	**		**		**		U/L	**		**		**		μkat/L
Digoxin EMIT 2000	0.75	0.57 - 0.93	1.80	1.43 - 2.16	2.81	2.25 - 3.37	ng/mL	0.96	0.73 - 1.19	2.30	1.83 - 2.77	3.60	2.88 - 4.32	nmol/L
Digoxin Microparticles (OSR6404/1669)	1.10	0.88 - 1.33	2.15	1.72 - 2.58	3.20	2.56 - 3.84	ng/mL	1.42	1.13 - 1.70	2.75	2.20 - 3.30	4.10	3.28 - 4.91	nmol/L
Disopyramide Syva Emit (6N319UL)	**		**		**		μg/mL	**		**		**		μmol/L
Ethosuximide Syva Emit	**		**		**		μg/mL	**		**		**		μmol/L
Ferritin Latex Particle Turbidimetric (OSR61203)	**		**		**		ng/mL	**		**		**		μg/L
Gentamicin Emit 2000 (OSR4T229)	1.74	1.39 - 2.09	5.22	4.17 - 6.26	8.68	6.94 - >10.0	μg/mL	3.64	2.91 - 4.37	10.9	8.74 - 13.1	18.2	14.5 - >20.9	μmol/L
Gentamicin CEDIA	0.28	<0.24 - 0.38	3.54	2.84 - 4.25	6.48	5.18 - 7.77	μg/mL	0.59	<0.50 - 0.79	7.42	5.94 - 8.91	13.6	10.8 - 16.3	μmol/L
Gentamicin PETIA (QMS)	1.57	1.26 - 1.89	4.76	3.81 - 5.71	7.74	6.19 - 9.28	μg/mL	3.30	2.64 - 3.96	9.97	7.97 - 12.0	16.2	13.0 - 19.4	μmol/L
Lithium Spectrophotometric (OSRTO56)	0.81	0.65 - 0.97	1.32	1.06 - 1.58	1.81	1.44 - 2.17	mEq/L	0.81	0.65 - 0.97	1.32	1.06 - 1.58	1.81	1.44 - 2.17	mmol/L
N-Acetylprocainamide (NAPA) Emit 2000 (OSR4N229)	**		**		**		μg/mL	**		**		**		μmol/L
Phenobarbital Emit 2000 (OSR4D229)	15.2	12.1 - 18.2	32.7	26.1 - 39.2	50.7	40.5 - 60.8	μg/mL	65.3	52.2 - 78.3	141	113 - 169	218	175 - 262	μmol/L
Phenobarbital CEDIA (OSR6413/100003)	11.3	9.00 - 13.5	28.4	22.7 - 34.0	45.9	36.7 - 55.0	μg/mL	48.4	38.8 - 58.1	122	97.7 - 147	198	158 - 237	μmol/L
Phenytoin Emit 2000 (OSR4A229)	7.51	6.00 - 9.01	16.1	12.9 - 19.4	26.5	21.0 - 32.1	μg/mL	29.7	23.8 - 35.7	64.0	51.2 - 76.8	105	83.2 - 127	μmol/L
Phenytoin CEDIA (OSR6411/100002)	5.23	4.18 - 6.27	13.7	11.0 - 16.4	22.1	17.7 - 26.5	μg/mL	20.7	16.6 - 24.9	54.3	43.4 - 65.1	87.5	70.0 - 105	μmol/L
Primidone Syva Emit (6C119)	**		**		**		μg/mL	**		**		**		μmol/L
Procainamide Emit 2000 (OSR4K229)	**		**		**		μg/mL	**		**		**		μmol/L
Quinidine Emit 2000 (OSR4Q229)	**		**		**		μg/mL	**		**		**		μmol/L
Salicylate Emit Tox (OSR7S229)	7.59	6.07 - 9.10	35.1	28.1 - 42.2	62.6	50.1 - 75.1	mg/dL	0.55	0.44 - 0.66	2.54	2.03 - 3.05	4.53	3.63 - 5.44	mmol/L
Theophylline Emit 2000 (OSR4P229)	5.67	4.54 - 6.80	13.5	10.8 - 16.2	21.7	17.1 - 26.2	μg/mL	31.5	25.2 - 37.8	74.8	59.8 - 89.7	120	94.7 - 146	μmol/L
Theophylline CEDIA (OSR6412/100008)	2.28	1.78 - 2.78	10.2	8.20 - 12.3	16.8	13.4 - 20.1	μg/mL	12.7	9.90 - 15.4	56.9	45.5 - 68.2	93.1	74.4 - 112	μmol/L
Thyroid Uptake (Tup) EIA (0723 DRI)	**		**		**		%U	**		**		**		%U
Thyroxine, Total (T4) EIA (0454 DRI)	**		**		**		μg/dL	**		**		**		nmol/L
Tobramycin Emit 2000 (OSR4S229)	1.46	1.14 - 1.78	3.81	3.05 - 4.57	6.52	5.22 - 7.82	μg/mL	3.12	2.43 - 3.81	8.15	6.52 - 9.78	13.9	11.2 - 16.7	μmol/L
Tobramycin PETIA (QMS)	2.87	2.30 - 3.45	6.38	5.10 - 7.65	7.87	6.30 - 9.45	μg/mL	6.14	4.91 - 7.37	13.6	10.9 - 16.4	16.8	13.5 - 20.2	μmol/L
Tricyclic Antidepressants (TCA) EIA (DRI)	151	120 - 181	493	309 - 677	834	667 - >1000	ng/mL	572	458 - 687	1876	1176 - 2576	3172	2538 - >3802	nmol/L
Valproic Acid Emit 2000 (OSR4G229)	42.6	32.7 - 52.4	87.2	69.7 - 105	133	106 - >150	μg/mL	295	227 - 363	604	484 - 725	920	736 - >1040	μmol/L
Valproic Acid CEDIA (OSR6415/100013)	33.0	26.4 - 39.5	76.3	61.1 - 91.6	116	92.5 - 139	μg/mL	228	183 - 274	529	423 - 635	802	641 - 962	μmol/L
Vancomycin Emit 2000 (OSR4W229)	6.68	5.34 - 8.02	18.1	14.5 - 21.7	30.0	24.0 - 35.9	μg/mL	4.61	3.69 - 5.53	12.5	9.97 - 15.0	20.7	16.5 - 24.8	μmol/L
Vancomycin PETIA (QMS)	7.59	6.07 - 9.11	22.0	17.6 - 26.4	38.5	30.8 - 46.2	μg/mL	5.24	4.19 - 6.29	15.2	12.1 - 18.2	26.6	21.3 - 31.9	μmol/L

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BECKMAN COULTER ACCESS SYSTEMS														
Alpha-Fetoprotein (AFP)													ng/mL	IU/mL
Chemiluminescence	**		**		**		**		**		**			
Carcinoembryonic Antigen (CEA)													ng/mL	µg/L
Chemiluminescence (CEA2)	**		**		**		**		**		**			
Cortisol	5.06	4.04 - 6.07	19.7	15.8 - 23.7	32.8	26.3 - 39.4	139	112 - 167	544	435 - 653	905	724 - 1086	µg/dL	nmol/L
Creatine Kinase-MB (CK-MB)													ng/mL	µg/L
Chemiluminescence (CKMB)	**		**		**		**		**		**			
DHEA-Sulfate (DHEA-S)													µg/dL	µmol/L
Chemiluminescence (DHE-S)	74.6	59.7 - 89.5	221	177 - 266	369	295 - 442	2.02	1.62 - 2.43	6.00	4.80 - 7.20	9.99	7.99 - 12.0		
Digoxin	**		**		**		**		**		**		ng/mL	nmol/L
Chemiluminescence (E2)	64.3	43.2 - 85.3	316	253 - 379	637	510 - 765	236	159 - 313	1160	928 - 1393	2340	1872 - 2808	pg/mL	pmol/L
Estradiol	50.1	38.0 - 62.3	256	197 - 316	474	379 - 569	184	139 - 229	941	723 - 1159	1740	1392 - 2089	pg/mL	pmol/L
Chemiluminescence, Sensitive (SNSE2)	14.4	11.5 - 17.3	167	134 - 200	322	258 - 387	14.4	11.5 - 17.3	167	134 - 200	322	258 - 387	ng/mL	µg/L
Ferritin	2.35	1.88 - 2.82	7.36	5.89 - 8.83	13.1	10.5 - 15.7	5.32	4.26 - 6.39	16.7	13.3 - 20.0	29.7	23.7 - 35.6	ng/mL	nmol/L
Folate													ng/mL	nmol/L
Follicle Stimulating Hormone (FSH)													ng/mL	nmol/L
Chemiluminescence (hFSH)	5.71	4.57 - 6.85	46.9	36.5 - 57.3	87.4	69.9 - 105	5.71	4.57 - 6.85	46.9	36.5 - 57.3	87.4	69.9 - 105	mIU/mL	IU/L
Human Chorionic Gonadotropin-Beta (hCG)													mIU/mL	IU/L
Chemiluminescence (5th IS)	6.79	5.43 - 8.15	28.7	22.9 - 34.4	347	278 - 417	6.79	5.43 - 8.15	28.7	22.9 - 34.4	347	278 - 417	mIU/mL	IU/L
Human Growth Hormone													ng/mL	µg/L
Chemiluminescence (hGH2)	1.97	1.57 - 2.36	10.9	8.74 - 13.1	19.2	15.4 - 23.1	1.97	1.57 - 2.36	10.9	8.74 - 13.1	19.2	15.4 - 23.1	ng/mL	µg/L
Immunoglobulin E (IgE)	**		**		**		**		**		**		IU/mL	kIU/L
Chemiluminescence	**		**		**		**		**		**			
Insulin	7.96	6.37 - 9.55	59.5	47.6 - 71.4	120	95.9 - 144	55.3	44.2 - 66.3	413	331 - 496	833	666 - 999	µIU/mL	pmol/L
Luteinizing Hormone (LH)													mIU/mL	IU/L
Chemiluminescence (hLH)	3.67	2.71 - 4.64	26.0	19.6 - 32.5	46.0	32.9 - 59.1	3.67	2.71 - 4.64	26.0	19.6 - 32.5	46.0	32.9 - 59.1	mIU/mL	IU/L
Progesterone													ng/mL	nmol/L
Chemiluminescence (P4DE) (Non U.S.)	0.46	0.32 - 0.61	6.27	4.56 - 7.97	13.4	10.7 - 16.0	1.47	1.00 - 1.94	19.9	14.5 - 25.4	42.5	34.0 - 51.0	ng/mL	nmol/L
Progesterone													ng/mL	nmol/L
Chemiluminescence (Prog)	0.83	0.45 - 1.21	8.63	6.73 - 10.5	15.8	12.6 - 18.9	2.63	1.42 - 3.84	27.4	21.4 - 33.5	50.2	40.2 - 60.2	ng/mL	nmol/L
Prolactin	6.98	5.58 - 8.38	23.0	18.4 - 27.6	37.0	29.6 - 44.4	0.30	0.24 - 0.36	1.00	0.80 - 1.20	1.61	1.29 - 1.93	ng/mL	nmol/L
Prostate Specific Antigen, Free (fPSA)	**		**		**		**		**		**		ng/mL	µg/L
Chemiluminescence (Hybritech)	**		**		**		**		**		**			
Prostate Specific Antigen, Free (fPSA)	**		**		**		**		**		**		ng/mL	µg/L
Chemiluminescence (WHO)	**		**		**		**		**		**			
Prostate Specific Antigen (PSA)													ng/mL	µg/L
Chemiluminescence (Hybritech)	0.94	0.75 - 1.13	3.00	2.40 - 3.60	30.6	24.4 - 36.7	0.94	0.75 - 1.13	3.00	2.40 - 3.60	30.6	24.4 - 36.7	ng/mL	µg/L
Prostate Specific Antigen (PSA)	**		**		**		**		**		**		ng/mL	µg/L
Chemiluminescence (WHO)	**		**		**		**		**		**			
Testosterone													ng/mL	nmol/L
Chemiluminescence (Testo) (33560)	0.73	0.51 - 0.94	3.68	2.94 - 4.42	6.88	5.31 - 8.46	2.51	1.78 - 3.24	12.8	10.2 - 15.3	23.9	18.4 - 29.3	ng/mL	nmol/L
Thyroglobulin													ng/mL	µg/L
Chemiluminescence (Tg) (33860)	8.84	7.07 - 10.6	30.0	24.0 - 36.0	49.6	39.7 - 59.5	8.84	7.07 - 10.6	30.0	24.0 - 36.0	49.6	39.7 - 59.5	ng/mL	µg/L
Thyroid Stimulating Hormone (TSH)													µIU/mL	mIU/L
Chemiluminescence (Fast) (fTSH2)	0.24	0.20 - 0.29	14.0	11.2 - 16.8	27.8	22.2 - 33.3	0.24	0.20 - 0.29	14.0	11.2 - 16.8	27.8	22.2 - 33.3	µIU/mL	mIU/L
Thyroid Stimulating Hormone (TSH)													µIU/mL	mIU/L
Chemiluminescence, 3rd IS (TSH3d)	0.25	0.20 - 0.30	15.9	12.8 - 19.1	30.0	24.0 - 36.1	0.25	0.20 - 0.30	15.9	12.8 - 19.1	30.0	24.0 - 36.1	µIU/mL	mIU/L
Thyroid Uptake (TU)	**		**		**		**		**		**		%U	%U
Chemiluminescence (TU-)	**		**		**		**		**		**			
Thyroxine, Free (FT4)													ng/dL	pmol/L
Chemiluminescence (FRT4)	1.11	0.89 - 1.34	1.90	1.52 - 2.28	3.56	2.84 - 4.28	14.3	11.5 - 17.2	24.4	19.5 - 29.3	45.8	36.5 - 55.1	ng/dL	pmol/L
Thyroxine, Total (T4)	**		**		**		**		**		**		µg/dL	nmol/L
Chemiluminescence (TotT4)	**		**		**		**		**		**			
Triiodothyronine, Free (FT3)													pg/mL	pmol/L
Chemiluminescence (FT3)	1.53	1.02 - 2.05	3.18	2.54 - 3.81	5.80	4.49 - 7.12	2.36	1.57 - 3.15	4.88	3.90 - 5.85	8.91	6.89 - 10.9	pg/mL	pmol/L
Triiodothyronine, Total (T3)													ng/mL	nmol/L
Chemiluminescence (TotT3)	0.76	0.55 - 0.96	1.53	1.21 - 1.84	2.26	1.81 - 2.71	1.16	0.85 - 1.48	2.34	1.86 - 2.82	3.47	2.78 - 4.17	ng/mL	nmol/L
Vitamin B12													pg/mL	pmol/L
Chemiluminescence (B12)	208	167 - 250	414	331 - 497	629	503 - 755	154	123 - 184	305	244 - 366	464	371 - 557	pg/mL	pmol/L



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BECKMAN COULTER DXC / SYNCHRON SYSTEMS																
Acetaminophen																
Immunoturbidimetric (ACTM)	13.4	10.7 - 16.1	79.2	63.4 - 95.1	145	116 - 174	µg/mL	88.6	70.9 - 106	524	419 - 629	958	767 - 1150	µmol/L		
Amikacin	**		**		**		µg/mL	**		**		**		µmol/L		
Amikacin Microparticles (QMS)																
Carbamazepine																
Immunoturbidimetric (CAR)	3.34	2.67 - 4.01	9.23	7.38 - 11.1	15.4	12.3 - 18.5	µg/mL	14.1	11.3 - 17.0	39.1	31.2 - 46.9	65.3	52.2 - 78.3	µmol/L		
Creatine Kinase-MB (CK-MB)																
Enzymatic Activity (CKMBX)	**		**		**		U/L	**		**		**		µkat/L		
Digoxin	0.60	0.36 - 0.84	1.78	1.42 - 2.14	2.77	2.22 - 3.32	ng/mL	0.77	0.45 - 1.08	2.28	1.82 - 2.74	3.55	2.84 - 4.26	nmol/L		
Gentamicin																
Immunoturbidimetric (GEN)	1.26	1.01 - 1.51	4.81	3.85 - 5.77	8.50	6.80 - 10.2	µg/mL	2.64	2.11 - 3.17	10.1	8.06 - 12.1	17.8	14.2 - 21.4	µmol/L		
Phenobarbital																
Immunoturbidimetric (PHE)	15.0	12.0 - 18.0	33.1	26.4 - 39.7	49.5	39.6 - 59.4	µg/mL	64.7	51.7 - 77.6	142	114 - 171	213	170 - 256	µmol/L		
Phenytoin																
Immunoturbidimetric (PHY)	7.25	5.80 - 8.70	15.1	12.1 - 18.2	22.8	18.2 - 27.3	µg/mL	28.7	23.0 - 34.5	60.0	48.0 - 72.0	90.3	72.2 - 108	µmol/L		
Salicylate																
Salicylate Hydroxylase (SALY)	6.78	4.80 - 8.76	34.0	27.2 - 40.8	63.5	50.8 - 76.2	mg/dL	0.49	0.35 - 0.63	2.46	1.97 - 2.96	4.60	3.68 - 5.52	mmol/L		
Theophylline																
Immunoturbidimetric (THE)	5.09	4.07 - 6.11	12.8	10.2 - 15.4	20.8	16.6 - 25.0	µg/mL	28.2	22.6 - 33.9	71.1	56.9 - 85.3	115	92.4 - 139	µmol/L		
Tobramycin																
Immunoturbidimetric (TOB)	**		**		**		µg/mL	**		**		**		µmol/L		
Valproic Acid																
Immunoturbidimetric (VPA)	36.1	28.8 - 43.3	82.5	66.0 - 99.0	133	106 - >150	µg/mL	250	200 - 300	572	458 - 687	919	735 - >1040	µmol/L		
Vancomycin																
Immunoturbidimetric (VANC)	5.53	3.89 - 7.17	17.6	14.1 - 21.1	32.8	26.2 - 39.3	µg/mL	3.82	2.68 - 4.95	12.1	9.70 - 14.5	22.6	18.1 - 27.1	µmol/L		

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	LIA24091A		LIA24092A		LIA24093A		U	LIA24091A		LIA24092A		LIA24093A		U
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BECKMAN COULTER DXI SYSTEMS														
Alpha-Fetoprotein (AFP)														
Chemiluminescence	12.0	9.58 - 14.4	68.8	53.1 - 84.5	134	107 - 161	ng/mL	9.89	7.91 - 11.9	56.8	43.9 - 69.8	111	88.7 - 133	IU/mL
Carcinoembryonic Antigen (CEA)														
Chemiluminescence (CEA2)	0.96	0.73 - 1.19	11.5	8.99 - 14.0	21.5	17.1 - 25.8	ng/mL	0.96	0.73 - 1.19	11.5	8.99 - 14.0	21.5	17.1 - 25.8	µg/L
Cortisol	5.21	4.17 - 6.25	20.9	16.7 - 25.0	34.7	27.8 - 41.7	µg/dL	144	115 - 172	575	460 - 690	958	766 - 1149	nmol/L
Creatine Kinase-MB (CK-MB)														
Chemiluminescence (CK-MB)	4.78	3.82 - 5.74	37.5	30.0 - 45.0	65.6	52.5 - 78.7	ng/mL	4.78	3.82 - 5.74	37.5	30.0 - 45.0	65.6	52.5 - 78.7	µg/L
DHEA-Sulfate (DHEA-S)														
Chemiluminescence (DHE-S)	**		**		**		µg/dL	**		**		**		µmol/L
Digoxin	0.84	0.67 - 1.01	2.02	1.62 - 2.42	3.07	2.45 - 3.68	ng/mL	1.07	0.86 - 1.29	2.59	2.07 - 3.10	3.93	3.14 - 4.71	nmol/L
Estradiol	50.1	39.1 - 61.1	250	200 - 300	448	358 - 537	pg/mL	184	144 - 224	917	733 - 1100	1644	1315 - 1973	pmol/L
Estradiol	**		**		**		pg/mL	**		**		**		pmol/L
Chemiluminescence, Sensitive (SNSE2)	15.7	12.6 - 18.8	163	130 - 196	313	251 - 376	ng/mL	15.7	12.6 - 18.8	163	130 - 196	313	251 - 376	µg/L
Ferritin	15.4	12.3 - 18.5	159	127 - 190	304	244 - 365	ng/mL	15.4	12.3 - 18.5	159	127 - 190	304	244 - 365	µg/L
Folate	2.90	2.28 - 3.52	7.53	6.02 - 9.03	12.6	10.1 - 15.1	ng/mL	6.57	5.16 - 7.98	17.1	13.6 - 20.5	28.5	22.8 - 34.3	nmol/L
Follicle Stimulating Hormone (FSH)														
Chemiluminescence (hFSH)	5.79	4.63 - 6.94	48.5	38.8 - 58.2	90.5	72.4 - 109	mIU/mL	5.79	4.63 - 6.94	48.5	38.8 - 58.2	90.5	72.4 - 109	IU/L
Human Chorionic Gonadotropin-Beta (hCG)														
Chemiluminescence (5th IS)	6.29	4.91 - 7.67	26.9	21.5 - 32.3	338	270 - 406	mIU/mL	6.29	4.91 - 7.67	26.9	21.5 - 32.3	338	270 - 406	IU/L
Human Growth Hormone (HGH)														
Chemiluminescence (hGH2)	**		**		**		ng/mL	**		**		**		µg/L
Immunoglobulin E, Total														
Chemiluminescence (IgE)	**		**		**		IU/mL	**		**		**		kIU/L
Insulin	7.68	6.14 - 9.22	59.3	47.5 - 71.2	110	88.0 - 132	µIU/mL	53.3	42.7 - 64.0	412	330 - 494	764	611 - 916	pmol/L
Gentamicin														
Chemiluminescence (hLH)	3.38	2.70 - 4.05	23.8	19.0 - 28.5	43.4	34.7 - 52.0	mIU/mL	3.38	2.70 - 4.05	23.8	19.0 - 28.5	43.4	34.7 - 52.0	IU/L
Progesterone														
Chemiluminescence (P4DE) (Non U.S.)	**		**		**		ng/mL	**		**		**		nmol/L
Progesterone														
Chemiluminescence (Prog)	0.82	0.44 - 1.21	8.99	6.58 - 11.4	17.7	14.2 - 21.3	ng/mL	2.62	1.40 - 3.84	28.6	20.9 - 36.3	56.3	45.1 - 67.6	nmol/L
Prolactin	6.46	5.17 - 7.76	18.8	15.0 - 22.5	31.2	24.9 - 37.4	ng/mL	0.28	0.22 - 0.34	0.82	0.65 - 0.98	1.36	1.08 - 1.63	nmol/L
Prostate Specific Antigen, Free (fPSA)														
Chemiluminescence (Hybritech)	0.07	0.04 - 0.10	1.39	1.11 - 1.67	3.70	2.96 - 4.43	ng/mL	0.07	0.04 - 0.10	1.39	1.11 - 1.67	3.70	2.96 - 4.43	µg/L
Prostate Specific Antigen, Free (fPSA)														
Chemiluminescence (WHO)	**		**		**		ng/mL	**		**		**		µg/L
Prostate Specific Antigen (PSA)														
Chemiluminescence (Hybritech)	0.90	0.72 - 1.08	2.91	2.33 - 3.49	29.0	23.2 - 34.8	ng/mL	0.90	0.72 - 1.08	2.91	2.33 - 3.49	29.0	23.2 - 34.8	µg/L
Prostate Specific Antigen (PSA)														
Chemiluminescence (WHO)	**		**		**		ng/mL	**		**		**		µg/L
Testosterone														
Chemiluminescence	0.70	0.56 - 0.85	3.63	2.90 - 4.36	6.64	5.31 - 7.97	ng/mL	2.43	1.93 - 2.93	12.6	10.1 - 15.1	23.0	18.4 - 27.6	nmol/L
Thyroglobulin														
Chemiluminescence	**		**		**		ng/mL	**		**		**		µg/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence, Fast hTSH (fTSH2)	0.24	0.19 - 0.29	14.5	11.6 - 17.4	27.2	21.8 - 32.7	µIU/mL	0.24	0.19 - 0.29	14.5	11.6 - 17.4	27.2	21.8 - 32.7	mIU/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence, HYPER hTSH (TSH)	0.23	0.19 - 0.28	14.3	11.4 - 17.1	28.0	22.4 - 33.6	µIU/mL	0.23	0.19 - 0.28	14.3	11.4 - 17.1	28.0	22.4 - 33.6	mIU/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence, 3rd IS (TSH3d)	**		**		**		µIU/mL	**		**		**		mIU/L
Thyroid Uptake														
Chemiluminescence (TU-)	41.4	33.1 - 49.7	50.0	40.0 - 60.0	58.2	46.6 - 69.8	%U	41.4	33.1 - 49.7	50.0	40.0 - 60.0	58.2	46.6 - 69.8	%U
Thyroxine, Free (FT4)														
Chemiluminescence (FRT4)	1.12	0.88 - 1.35	1.89	1.52 - 2.27	3.65	2.92 - 4.38	ng/dL	14.4	11.4 - 17.4	24.4	19.5 - 29.3	47.0	37.6 - 56.3	pmol/L
Thyroxine, Total (T4)														
Chemiluminescence (TotT4)	9.28	7.43 - 11.1	10.8	8.37 - 13.2	12.8	10.2 - 15.3	µg/dL	119	95.6 - 143	139	108 - 170	165	132 - 197	nmol/L
Triiodothyronine, Free (FT3)														
Chemiluminescence (FT3)	1.62	1.10 - 2.14	3.36	2.64 - 4.09	5.94	4.75 - 7.12	pg/mL	2.48	1.68 - 3.28	5.17	4.06 - 6.28	9.12	7.29 - 10.9	pmol/L
Triiodothyronine, Total (T3)														
Chemiluminescence (TotT3)	0.69	0.45 - 0.94	1.42	1.14 - 1.71	2.19	1.71 - 2.66	ng/mL	1.07	0.69 - 1.45	2.19	1.75 - 2.63	3.36	2.63 - 4.09	nmol/L
Vitamin B12														
Chemiluminescence (B12)	219	175 - 263	423	338 - 508	656	525 - 787	pg/mL	162	129 - 194	312	250 - 374	484	387 - 581	pmol/L

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BIOMERIEUX VIDAS SYSTEMS													
Human Chorionic Gonadotropin (HCG) ELFA	**		**		**		mIU/mL	**	**	**			IU/L
Prostate Specific Antigen (PSA) ELFA	**		**		**		ng/mL	**	**	**			µg/L
Prostate Specific Antigen, Free (FPSA) ELFA	**		**		**		ng/mL	**	**	**			µg/L
Thyroid Stimulating Hormone (TSH) ELFA	**		**		**		µIU/mL	**	**	**			mIU/L
Thyroxine, Free (FT4) ELFA	**		**		**		ng/dL	**	**	**			pmol/L

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ORTHO-VITROS CHEMISTRY SYSTEMS														
Acetaminophen														
Colorimetric	15.0	12.0 - 18.0	91.9	73.5 - 110	168	134 - >200	μg/mL	99.2	79.4 - 119	608	486 - 730	1109	887 - >1323	μmol/L
Alpha-Fetoprotein (AFP)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		μg/L
Carbamazepine														
Chemiluminescence	**		**		**		μg/mL	**		**		**		μmol/L
Carcinoembryonic Antigen (CEA)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		μg/L
Cortisol														
Chemiluminescence (Cort)	4.05	3.24 - 4.86	20.2	16.2 - 24.3	38.7	31.0 - 46.4	μg/dL	112	89.5 - 134	558	446 - 669	1068	854 - 1281	nmol/L
Creatine Kinase-MB (CK-MB)														
Chemiluminescence	2.58	2.06 - 3.09	19.7	15.7 - 23.6	35.8	28.7 - 43.0	ng/mL	2.58	2.06 - 3.09	19.7	15.7 - 23.6	35.8	28.7 - 43.0	μg/L
Digoxin														
Chemiluminescence	0.97	0.77 - 1.17	1.86	1.49 - 2.23	2.83	2.26 - 3.40	ng/mL	1.24	0.98 - 1.50	2.38	1.91 - 2.86	3.63	2.90 - 4.35	nmol/L
Estradiol														
Chemiluminescence (E2)	70.5	56.4 - 84.6	307	245 - 368	573	458 - 688	pg/mL	259	207 - 311	1126	901 - 1351	2104	1683 - 2524	pmol/L
Ferritin														
Chemiluminescence (Ferr)	16.7	13.3 - 20.2	157	125 - 188	296	237 - 355	ng/mL	16.7	13.3 - 20.2	157	125 - 188	296	237 - 355	μg/L
Folate														
Chemiluminescence	1.90	1.12 - 2.68	4.86	3.53 - 6.19	8.45	5.65 - 11.3	ng/mL	4.31	2.55 - 6.07	11.0	8.01 - 14.0	19.1	12.8 - 25.5	nmol/L
Follicle Stimulating Hormone (FSH)														
Chemiluminescence	3.64	2.91 - 4.36	33.8	27.0 - 40.5	60.0	48.0 - 72.0	mIU/mL	3.64	2.91 - 4.36	33.8	27.0 - 40.5	60.0	48.0 - 72.0	IU/L
Gentamicin														
Chemiluminescence	1.65	1.32 - 1.98	4.98	3.98 - 5.97	7.83	6.27 - 9.40	μg/mL	3.45	2.76 - 4.14	10.4	8.34 - 12.5	16.4	13.1 - 19.7	μmol/L
Human Chorionic Gonadotropin-Beta (hCG)														
Chemiluminescence (B-hCG) (β-hCG II)	7.97	6.38 - 9.56	37.4	29.9 - 44.9	485	388 - 582	mIU/mL	7.97	6.38 - 9.56	37.4	29.9 - 44.9	485	388 - 582	IU/L
Luteinizing Hormone (LH)														
Chemiluminescence	6.00	4.80 - 7.19	43.3	34.6 - 51.9	64.2	51.3 - 77.0	mIU/mL	6.00	4.80 - 7.19	43.3	34.6 - 51.9	64.2	51.3 - 77.0	IU/L
Phenytoin														
Chemiluminescence	8.05	6.44 - 9.66	19.8	15.8 - 23.7	33.3	26.7 - 40.0	μg/mL	31.9	25.5 - 38.3	78.4	62.7 - 94.1	132	106 - 158	μmol/L
Progesterone														
Chemiluminescence	1.13	0.90 - 1.36	12.2	9.77 - 14.7	23.8	19.0 - 28.5	ng/mL	3.59	2.87 - 4.31	38.8	31.1 - 46.6	75.6	60.5 - 90.7	nmol/L
Prolactin														
Chemiluminescence (Prol)	7.48	5.98 - 8.98	21.3	17.0 - 25.5	35.9	28.7 - 43.0	ng/mL	0.33	0.26 - 0.39	0.93	0.74 - 1.11	1.56	1.25 - 1.87	nmol/L
Prostate Specific Antigen, Free (fPSA)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		μg/L
Prostate Specific Antigen, Total (PSA)														
Chemiluminescence (PSA)	0.89	0.50 - 1.28	2.16	1.41 - 2.91	21.5	15.8 - 27.3	ng/mL	0.89	0.50 - 1.28	2.16	1.41 - 2.91	21.5	15.8 - 27.3	μg/L
Salicylate														
Colorimetric	8.13	6.50 - 9.76	25.8	20.6 - 30.9	37.1	29.6 - >40.0	mg/dL	0.59	0.47 - 0.71	1.87	1.49 - 2.24	2.68	2.15 - >2.90	mmol/L
Testosterone														
Chemiluminescence	104	83.5 - 125	720	576 - 864	1427	1142 - 1712	ng/dL	3.62	2.90 - 4.35	25.0	20.0 - 30.0	49.5	39.6 - 59.4	nmol/L
Theophylline														
Enzymatic	7.92	6.34 - 9.50	18.2	14.5 - 21.8	29.1	23.3 - 34.9	μg/mL	44.0	35.2 - 52.7	101	80.7 - 121	162	129 - 194	μmol/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence (TSH)	0.28	0.19 - 0.36	20.4	16.4 - 24.5	38.3	30.6 - 45.9	μIU/mL	0.28	0.19 - 0.36	20.4	16.4 - 24.5	38.3	30.6 - 45.9	mIU/L
Thyroid Uptake														
Chemiluminescence	**		**		**		%U	**		**		**		%U
Thyroxine, Free (FT4)														
Chemiluminescence	2.52	2.01 - 3.02	5.42	4.34 - 6.51	>6.99		ng/dL	32.4	25.9 - 38.8	69.8	55.8 - 83.7	>90.0		pmol/L
Thyroxine, Total (T4)														
Chemiluminescence	11.2	8.98 - 13.5	12.3	9.87 - 14.8	13.4	10.7 - 16.1	μg/dL	144	116 - 173	159	127 - 191	172	138 - 207	nmol/L
Tobramycin														
Chemiluminescence	1.41	1.13 - 1.70	3.80	3.04 - 4.56	6.64	5.32 - 7.97	μg/mL	3.02	2.42 - 3.63	8.13	6.50 - 9.75	14.2	11.4 - 17.1	μmol/L
Triiodothyronine, Free (FT3)														
Chemiluminescence	4.61	3.42 - 5.79	14.4	10.9 - 17.9	>22.8		pg/mL	7.08	5.26 - 8.90	22.1	16.7 - 27.5	>35.0		pmol/L
Triiodothyronine, Total (T3)														
Chemiluminescence	0.81	0.65 - 0.97	1.76	1.41 - 2.11	2.75	2.20 - 3.30	ng/mL	1.24	0.99 - 1.49	2.71	2.17 - 3.25	4.22	3.37 - 5.06	nmol/L
Valproic Acid														
Chemiluminescence	35.9	28.7 - 43.1	80.5	64.4 - 96.6	124	99.3 - 149	μg/mL	249	199 - 299	558	447 - 670	860	688 - 1032	μmol/L
Vancomycin														
Chemiluminescence	6.24	<5.00 - 7.49	17.2	13.8 - 20.6	28.9	23.1 - 34.7	μg/mL	4.31	<3.45 - 5.17	11.9	9.49 - 14.2	19.9	15.9 - 23.9	μmol/L
Vitamin B12														
Chemiluminescence	299	239 - 359	580	446 - 714	783	626 - 940	pg/mL	221	177 - 265	428	329 - 527	578	462 - 693	pmol/L



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ROCHE COBAS C / MODULAR SYSTEMS														
Acetaminophen														
EIA (ACET2)	11.6	9.28 - 13.9	69.4	55.5 - 83.2	125	100 - 151	µg/mL	76.7	61.4 - 92.1	459	367 - 551	830	664 - 996	µmol/L
Amikacin KIMS (AMIK)	6.30	5.04 - 7.56	16.3	13.0 - 19.6	26.3	21.0 - 31.5	µg/mL	10.8	8.61 - 12.9	27.8	22.3 - 33.4	44.9	35.9 - 53.9	µmol/L
Carbamazepine														
CEDIA (CARB3)	**		**		**		µg/mL	**		**		**		µmol/L
Carbamazepine														
KIMS (CARB4)	3.28	2.63 - 3.94	9.22	7.38 - 11.1	15.4	12.3 - 18.5	µg/mL	13.9	11.1 - 16.7	39.0	31.2 - 46.8	65.1	52.1 - 78.1	µmol/L
Creatine Kinase-MB (CK-MB)														
Immunological (CKMBL)	**		**		**		U/L	**		**		**		µkat/L
Digoxin KIMS (DIG)	0.84	0.59 - 1.09	2.03	1.62 - 2.44	3.25	2.60 - 3.90	ng/mL	1.08	0.76 - 1.40	2.60	2.08 - 3.12	4.17	3.33 - 5.00	nmol/L
Gentamicin														
KIMS/QMS	1.68	1.35 - 2.02	4.79	3.34 - 6.24	7.75	6.03 - 9.46	µg/mL	3.52	2.82 - 4.23	10.0	6.99 - 13.1	16.2	12.6 - 19.8	µmol/L
Homocysteine														
Enzymatic (HCYS)	6.05	4.84 - 7.26	21.5	17.2 - 25.8	35.2	28.1 - 42.2	µmol/L	6.05	4.84 - 7.26	21.5	17.2 - 25.8	35.2	28.1 - 42.2	µmol/L
Lidocaine														
Roche Online TDM	1.05	<0.30 - 1.90	3.93	2.64 - 5.22	6.48	4.82 - 8.14	µg/mL	4.48	<1.28 - 8.11	16.8	11.3 - 22.3	27.7	20.6 - 34.7	µmol/L
Lithium Colorimetric-Xylidyl Blue	0.84	0.68 - 1.01	1.38	1.11 - 1.66	1.89	1.51 - 2.26	mEq/L	0.84	0.68 - 1.01	1.38	1.11 - 1.66	1.89	1.51 - 2.26	mmol/L
N-Acetylprocainamide (NAPA)														
Enzymatic (NAPA2)	**		**		**		µg/mL	**		**		**		µmol/L
Phenobarbital														
KIMS (PHN02)	15.5	12.4 - 18.6	33.5	26.8 - 40.2	51.3	41.1 - >60.0	µg/mL	66.9	53.5 - 80.2	144	115 - 173	221	177 - >258	µmol/L
Phenytoin														
KIMS (PHNY2)	7.40	5.92 - 8.88	15.9	12.7 - 19.1	24.5	19.6 - 29.4	µg/mL	29.3	23.5 - 35.2	63.0	50.4 - 75.6	97.2	77.8 - 117	µmol/L
Procainamide														
EIA (PROC2)	**		**		**		µg/mL	**		**		**		µmol/L
Quinidine KIMS (QUIN2)	**		**		**		µg/mL	**		**		**		µmol/L
Salicylate														
Enzymatic-Colorimetric	6.28	5.02 - 7.53	32.3	25.8 - 38.8	59.5	47.6 - >70.0	mg/dL	0.45	0.36 - 0.55	2.34	1.87 - 2.81	4.31	3.45 - >5.07	mmol/L
Theophylline														
KIMS (THEO2)	5.66	4.53 - 6.79	13.6	10.9 - 16.4	21.7	17.4 - 26.0	µg/mL	31.4	25.1 - 37.7	75.6	60.5 - 90.7	120	96.3 - 145	µmol/L
Tobramycin														
EIA (TOBR2)	1.45	1.16 - 1.74	3.77	3.02 - 4.52	6.55	5.24 - 7.86	µg/mL	3.10	2.48 - 3.72	8.06	6.45 - 9.68	14.0	11.2 - 16.8	µmol/L
Valproic Acid														
EIA (VALP2)	41.9	33.5 - 50.3	86.2	68.9 - 103	131	105 - >150	µg/mL	290	232 - 349	598	478 - 717	906	725 - >1040	µmol/L
Vancomycin														
KIMS (VANC3)	6.24	4.88 - 7.60	16.8	13.4 - 20.1	27.7	22.2 - 33.2	µg/mL	4.31	3.37 - 5.24	11.6	9.26 - 13.9	19.1	15.3 - 22.9	µmol/L

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ROCHE COBAS E / MODULAR SYSTEMS													
Alpha-Fetoprotein (AFP) ECLIA	**		**		**		ng/mL	**		**		**	IU/mL
Carcinoembryonic Antigen (CEA) ECLIA	**		**		**		ng/mL	**		**		**	µg/L
Cortisol ECLIA (Cortisol II)	**		**		**		µg/dL	**		**		**	nmol/L
Creatine Kinase-MB (CK-MB) ECLIA (STAT) (05957648 U.S.)	**		**		**		ng/mL	**		**		**	µg/L
Creatine Kinase-MB (CK-MB) ECLIA (STAT) (11731432)	**		**		**		ng/mL	**		**		**	µg/L
Creatine Kinase-MB (CK-MB) ECLIA (05894808 U.S.)	**		**		**		ng/mL	**		**		**	µg/L
Creatine Kinase-MB (CK-MB) ECLIA (11821598)	**		**		**		ng/mL	**		**		**	µg/L
DHEA-Sulfate (DHEA-S) ECLIA	**		**		**		µg/dL	**		**		**	µmol/L
Digoxin ECLIA	1.01	0.68 - 1.34	2.34	1.84 - 2.84	3.55	2.84 - 4.26	ng/mL	1.30	0.88 - 1.71	3.00	2.36 - 3.64	4.54	3.64 - 5.45
Estradiol ECLIA (Estradiol III)	**		**		**		pg/mL	**		**		**	pmol/L
Ferritin ECLIA	24.5	19.6 - 29.4	241	193 - 289	441	353 - 529	ng/mL	24.5	19.6 - 29.4	241	193 - 289	441	353 - 529
Folate ECLIA (Folate III) (WHO)	2.56	2.05 - 3.08	7.44	5.95 - 8.93	14.2	11.4 - 17.1	ng/mL	5.81	4.65 - 6.97	16.9	13.5 - 20.2	32.2	25.8 - 38.7
Follicle Stimulating Hormone (FSH) ECLIA	**		**		**		mIU/mL	**		**		**	IU/L
Human Chorionic Gonadotropin (hCG) ECLIA (STAT)	**		**		**		mIU/mL	**		**		**	IU/L
Human Chorionic Gonadotropin-Beta ECLIA (HCG+β)	5.97	4.77 - 7.16	27.0	21.6 - 32.3	369	295 - 442	mIU/mL	5.97	4.77 - 7.16	27.0	21.6 - 32.3	369	295 - 442
Immunoglobulin E (IgE) ECLIA (IgE II)	**		**		**		IU/mL	**		**		**	kIU/L
Insulin ECLIA	**		**		**		µIU/mL	**		**		**	pmol/L
Luteinizing Hormone (LH) ECLIA	**		**		**		mIU/mL	**		**		**	IU/L
Progesterone ECLIA	**		**		**		ng/mL	**		**		**	nmol/L
Prolactin ECLIA (Prolactin II)	**		**		**		ng/mL	**		**		**	nmol/L
Prostate Specific Antigen, Free (fPSA) ECLIA	**		**		**		ng/mL	**		**		**	µg/L
Prostate Specific Antigen, Total (PSA) ECLIA	0.92	0.735 - 1.102	2.89	2.31 - 3.47	25.8	20.6 - 30.9	ng/mL	0.92	0.735 - 1.102	2.89	2.31 - 3.47	25.8	20.6 - 30.9
Testosterone ECLIA (Testosterone II)	**		**		**		ng/dL	**		**		**	nmol/L
Thyroid Stimulating Hormone (TSH) ECLIA	0.31	0.25 - 0.38	16.1	12.9 - 19.4	30.6	24.5 - 36.7	µIU/mL	0.31	0.25 - 0.38	16.1	12.9 - 19.4	30.6	24.5 - 36.7
Thyroid Uptake (TU) ECLIA	**		**		**		TBI	**		**		**	TBI
Thyroxine, Free (FT4) ECLIA (FT4 II)	1.74	1.39 - 2.09	2.61	2.09 - 3.14	4.53	3.62 - 5.43	ng/dL	22.4	17.9 - 26.8	33.6	26.9 - 40.4	58.3	46.6 - 69.9
Thyroxine, Total (T4) ECLIA	9.94	7.95 - 11.9	10.5	8.41 - 12.6	10.9	8.72 - 13.1	µg/dL	128	102 - 154	135	108 - 162	140	112 - 168
Triiodothyronine, Free (FT3) ECLIA	**		**		**		pg/mL	**		**		**	pmol/L
Triiodothyronine, Total (T3) ECLIA	1.18	0.94 - 1.41	2.21	1.77 - 2.65	3.26	2.61 - 3.92	ng/mL	1.81	1.45 - 2.17	3.39	2.71 - 4.07	5.01	4.01 - 6.02
Vitamin B12 ECLIA	338	270 - 405	591	473 - 709	852	681 - 1022	pg/mL	249	199 - 299	436	349 - 523	628	503 - 754

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ROCHE HITACHI / MODULAR D & P SYSTEMS												
Acetaminophen	**		**		**		**		**		**	
p-Aminophenol												µmol/L
Amikacin	**		**		**		**		**		**	
Microparticles (QMS)												µmol/L
Carbamazepine	**		**		**		**		**		**	
CEDIA												µmol/L
Creatine Kinase-MB (CK-MB)	**		**		**		**		**		**	
Immuno-inhibition, Liquid (Hitachi/Modular)												µkat/L
Ferritin	**		**		**		**		**		**	
Tina-Quant (FERR4)												µg/L
Gentamicin	**		**		**		**		**		**	
Microparticles (QMS)												µmol/L
Gentamicin	**		**		**		**		**		**	
CEDIA												µmol/L
Lithium	**		**		**		**		**		**	
Colorimetric-Xylidyl Blue												mmol/L
N-Acetylprocainamide (NAPA)	**		**		**		**		**		**	
CEDIA												µmol/L
Phenobarbital	**		**		**		**		**		**	
CEDIA												µmol/L
Phenobarbital	**		**		**		**		**		**	
KIMS												µmol/L
Phenytoin	**		**		**		**		**		**	
KIMS												µmol/L
Phenytoin	**		**		**		**		**		**	
CEDIA												µmol/L
Procainamide	**		**		**		**		**		**	
CEDIA												µmol/L
Salicylate	**		**		**		**		**		**	
Colorimetric (DRI)												mmol/L
Theophylline	**		**		**		**		**		**	
KIMS												µmol/L
Theophylline	**		**		**		**		**		**	
CEDIA												µmol/L
Thyroid Uptake (TUP)	**		**		**		**		**		**	
CEDIA												%U
Thyroid Uptake (TUP)	**		**		**		**		**		**	
EIA												%U
Thyroxine, Total (T4)	**		**		**		**		**		**	
EIA												nmol/L
Tobramycin	**		**		**		**		**		**	
EIA (Roche)												µmol/L
Tobramycin	**		**		**		**		**		**	
CEDIA												µmol/L
Valproic Acid	**		**		**		**		**		**	
CEDIA												µmol/L
Valproic Acid	**		**		**		**		**		**	
EIA												µmol/L
Vancomycin	**		**		**		**		**		**	
EIA (Roche)												µmol/L
Vancomycin	**		**		**		**		**		**	
Microparticles (QMS)												µmol/L

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ROCHE INTEGRA SYSTEMS													
Acetaminophen	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Enzymatic, Colorimetric	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Amikacin	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Carbamazepine	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Creatine Kinase-MB (CK-MB)	**	**	**	**	**	**	**	**	**	**	**	**	µkat/L
Enzymatic - UV (CK-MB)	**	**	**	**	**	**	**	**	**	**	**	**	nmol/L
Digoxin	**	**	**	**	**	**	**	**	**	**	**	**	ng/mL
KIMS	**	**	**	**	**	**	**	**	**	**	**	**	µg/mL
Gentamicin	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Lidocaine	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	mEq/L
Lithium	**	**	**	**	**	**	**	**	**	**	**	**	mmol/L
ISE Direct	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
N-Acetylprocainamide (NAPA)	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Phenobarbital	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Phenytoin	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Primidone	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Procainamide	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Quinidine	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	mg/dL
Salicylate	**	**	**	**	**	**	**	**	**	**	**	**	mmol/L
Enzymatic-Colorimetric	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Theophylline	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	TBI
Thyroid Uptake	**	**	**	**	**	**	**	**	**	**	**	**	TBI
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	nmol/L
Thyroxine, Total (T4)	**	**	**	**	**	**	**	**	**	**	**	**	nmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Tobramycin	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Valproic Acid	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Vancomycin	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L



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SIEMENS ATELICA SYSTEMS														
Alpha-Fetoprotein (AFP)														
Chemiluminescence	14.1	11.3 - 17.0	85.2	68.2 - 102	155	124 - 187	ng/mL	11.7	9.34 - 14.0	70.4	56.3 - 84.4	128	103 - 154	IU/mL
Carbamazepine														
PETINIA (Carb)	3.29	2.63 - 3.95	9.15	7.32 - 11.0	15.0	12.0 - 18.0	µg/mL	13.9	11.1 - 16.7	38.7	31.0 - 46.5	63.6	50.9 - 76.4	µmol/L
Carcinoembryonic Antigen														
Chemiluminescence (CEA)	1.17	0.79 - 1.56	12.6	10.1 - 15.1	24.4	19.4 - 29.4	ng/mL	1.17	0.79 - 1.56	12.6	10.1 - 15.1	24.4	19.4 - 29.4	µg/L
Creatine Kinase MB (CKMB)														
Chemiluminescence	4.53	3.62 - 5.43	33.6	26.8 - 40.3	59.4	47.5 - 71.2	ng/mL	4.53	3.62 - 5.43	33.6	26.8 - 40.3	59.4	47.5 - 71.2	µg/L
Digoxin														
Chemiluminescence (Dig)	1.01	0.80 - 1.21	2.14	1.71 - 2.56	3.17	2.53 - 3.80	ng/mL	1.29	1.03 - 1.54	2.74	2.19 - 3.28	4.05	3.24 - 4.87	nmol/L
Estradiol (E2)														
Chemiluminescence (eE2)	49.7	39.8 - 59.7	261	209 - 313	510	408 - 612	pg/mL	183	146 - 219	958	766 - 1149	1872	1498 - 2247	pmol/L
Ferritin														
Chemiluminescence (Fer)	20.0	16.0 - 24.0	220	176 - 264	410	328 - 492	ng/mL	20.0	16.0 - 24.0	220	176 - 264	410	328 - 492	µg/L
Folate														
Chemiluminescence (FOL)	4.40	3.52 - 5.28	10.8	8.61 - 12.9	16.4	13.1 - 19.7	ng/mL	9.97	7.98 - 12.0	24.4	19.5 - 29.3	37.2	29.7 - 44.6	nmol/L
Follicle Stimulating Hormone (FSH)														
Chemiluminescence	6.22	4.98 - 7.47	52.6	42.1 - 63.1	99.6	79.7 - 120	mIU/mL	6.22	4.98 - 7.47	52.6	42.1 - 63.1	99.6	79.7 - 120	IU/L
Gentamicin														
PETINIA (Gent)	1.37	1.04 - 1.71	4.05	3.09 - 5.01	7.18	5.74 - 8.62	µg/mL	2.87	2.17 - 3.57	8.48	6.47 - 10.5	15.0	12.0 - 18.1	µmol/L
Human Chorionic Gonadotropin, Total hCG														
Chemiluminescence (ThCG)	8.42	6.74 - 10.1	28.5	22.8 - 34.2	335	268 - 402	mIU/mL	8.42	6.74 - 10.1	28.5	22.8 - 34.2	335	268 - 402	IU/L
Luteinizing Hormone (LH)														
Chemiluminescence	4.04	3.23 - 4.85	31.4	25.1 - 37.6	54.7	43.7 - 65.6	mIU/mL	4.04	3.23 - 4.85	31.4	25.1 - 37.6	54.7	43.7 - 65.6	IU/L
Phenobarbital														
PETINIA (Phnb)	15.4	12.4 - 18.5	32.6	26.1 - 39.1	50.0	40.0 - 60.0	µg/mL	66.5	53.2 - 79.8	140	112 - 168	215	172 - 258	µmol/L
Phenytoin														
PETINIA (Phny)	6.70	5.36 - 8.04	16.0	12.8 - 19.2	25.3	20.2 - 30.3	µg/mL	26.6	21.2 - 31.9	63.4	50.7 - 76.0	100	80.1 - 120	µmol/L
Prolactin														
Chemiluminescence (PRL)	7.87	6.30 - 9.45	22.6	18.0 - 27.1	39.7	31.8 - 47.6	ng/mL	0.34	0.27 - 0.41	0.98	0.78 - 1.18	1.73	1.38 - 2.07	nmol/L
Prostate Specific Antigen, Total (PSA)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		µg/L
Prostate Specific Antigen, Free (FPSA)														
Chemiluminescence (fPSA)	**		**		**		ng/mL	**		**		**		µg/L
Theophylline														
PETINIA (Theo)	4.97	3.97 - 5.96	12.3	9.85 - 14.8	19.4	15.5 - 23.3	µg/mL	27.6	22.1 - 33.1	68.3	54.7 - 82.0	108	86.0 - 129	µmol/L
Thyroid Stimulating Hormone 3-Ultra														
Chemiluminescence (TSH3-UL)	0.27	0.21 - 0.32	16.2	13.0 - 19.5	31.3	25.1 - 37.6	µIU/mL	0.27	0.21 - 0.32	16.2	13.0 - 19.5	31.3	25.1 - 37.6	mIU/L
Thyroxine, Free (FT4)														
Chemiluminescence	1.48	1.18 - 1.77	2.07	1.66 - 2.49	3.25	2.60 - 3.89	ng/dL	19.0	15.2 - 22.8	26.7	21.4 - 32.0	41.8	33.4 - 50.1	pmol/L
Thyroxine, Total (T4)														
Chemiluminescence	12.6	10.1 - 15.1	13.4	10.7 - 16.1	14.1	11.3 - 16.9	µg/dL	162	130 - 194	173	138 - 207	181	145 - 217	nmol/L
Triiodothyronine, Free (FT3)														
Chemiluminescence	1.44	1.04 - 1.85	4.07	3.26 - 4.89	7.90	6.32 - 9.48	pg/mL	2.22	1.59 - 2.85	6.26	5.01 - 7.51	12.1	9.71 - 14.6	pmol/L
Valproic Acid														
PETINIA (VPA)	39.3	31.4 - 47.1	81.7	65.4 - 98.0	120	95.7 - 143	µg/mL	272	218 - 327	567	453 - 680	829	663 - 995	µmol/L
Vancomycin														
PETINIA (Vanc)	7.06	5.65 - 8.47	19.7	15.7 - 23.6	32.8	26.3 - 39.4	µg/mL	4.87	3.90 - 5.85	13.6	10.9 - 16.3	22.7	18.1 - 27.2	µmol/L
Vitamin B12														
Chemiluminescence (VB12)	210	168 - 252	412	329 - 494	639	511 - 766	pg/mL	155	124 - 186	304	243 - 365	471	377 - 565	pmol/L

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SIEMENS CENTAUR SYSTEMS														
Alpha-Fetoprotein (AFP)													ng/mL	IU/mL
Chemiluminescence	**		**		**		**		**		**			
Carbamazepine													µg/mL	µmol/L
Chemiluminescence	**		**		**		**		**		**			
Carcinoembryonic Antigen (CEA)													ng/mL	µg/L
Chemiluminescence	0.91	0.71 - 1.11	13.6	10.9 - 16.4	25.1	20.0 - 30.1	0.91	0.71 - 1.11	13.6	10.9 - 16.4	25.1	20.0 - 30.1		
Cortisol	5.05	4.04 - 6.06	22.6	18.1 - 27.1	38.0	30.4 - 45.6	139	111 - 167	623	499 - 748	1049	840 - 1259	µg/dL	nmol/L
Creatine Kinase-MB (CK-MB)													U/L	µkat/L
Optimized UV, IFCC (Activity)	**		**		**		**		**		**			
Creatine Kinase-MB (CK-MB)													ng/mL	µg/L
Chemiluminescence	**		**		**		**		**		**			
DHEA-Sulfate (DHEA-S)													µg/dL	µmol/L
Chemiluminescence	93.0	68.4 - 118	274	207 - 340	443	340 - 545	2.52	1.85 - 3.19	7.42	5.62 - 9.22	12.0	9.22 - 14.8		
Digoxin	1.03	0.82 - 1.23	2.18	1.74 - 2.62	3.13	2.51 - 3.76	1.32	1.05 - 1.58	2.79	2.23 - 3.35	4.01	3.21 - 4.81	ng/mL	nmol/L
Estradiol	51.3	41.0 - 61.6	290	232 - 348	563	451 - 676	188	151 - 226	1063	851 - 1276	2068	1654 - 2482	pg/mL	pmol/L
Ferritin	20.2	16.1 - 24.2	217	174 - 261	420	336 - 504	20.2	16.1 - 24.2	217	174 - 261	420	336 - 504	ng/mL	µg/L
Folate	4.49	3.44 - 5.53	12.2	9.71 - 14.7	20.7	14.9 - >24.0	10.2	7.80 - 12.5	27.7	22.0 - 33.4	46.9	33.7 - >54.4	ng/mL	nmol/L
Follicle Stimulating Hormone (FSH)													mIU/mL	IU/L
Chemiluminescence	6.44	4.61 - 8.27	49.8	39.9 - 59.8	94.4	75.5 - 113	6.44	4.61 - 8.27	49.8	39.9 - 59.8	94.4	75.5 - 113		
Gentamicin													µg/mL	µmol/L
Chemiluminescence	1.47	0.88 - 2.06	4.97	3.82 - 6.12	9.18	7.34 - 11.0	3.08	1.85 - 4.32	10.4	7.99 - 12.8	19.2	15.4 - 23.1		
Homocysteine													µmol/L	µmol/L
Chemiluminescence	2.89	1.68 - 4.11	10.7	8.39 - 13.0	17.9	14.3 - 21.5	2.89	1.68 - 4.11	10.7	8.39 - 13.0	17.9	14.3 - 21.5		
Human Chorionic Gonadotropin (hCG)													mIU/mL	IU/L
Chemiluminescence	10.2	7.74 - 12.6	32.0	25.6 - 38.4	340	272 - 408	10.2	7.74 - 12.6	32.0	25.6 - 38.4	340	272 - 408		
Immunoglobulin E (IgE)													IU/mL	kIU/L
Chemiluminescence	**		**		**		**		**		**			
Insulin	9.04	6.88 - 11.2	61.8	49.4 - 74.1	112	89.9 - 135	62.8	47.8 - 77.7	429	343 - 515	780	624 - 936	µIU/mL	pmol/L
Luteinizing Hormone (LH)													mIU/mL	IU/L
Chemiluminescence	4.29	3.43 - 5.15	31.8	25.4 - 38.1	55.1	44.1 - 66.1	4.29	3.43 - 5.15	31.8	25.4 - 38.1	55.1	44.1 - 66.1		
Phenobarbital													µg/mL	µmol/L
Chemiluminescence	19.4	14.1 - 24.7	39.4	27.4 - 51.4	53.4	37.3 - 69.5	83.5	60.6 - 106	170	118 - 221	230	161 - 299		
Phenytoin													µg/mL	µmol/L
Chemiluminescence	7.60	6.05 - 9.15	16.2	12.0 - 20.4	26.6	20.7 - 32.5	30.1	24.0 - 36.3	64.2	47.6 - 80.8	105	82.2 - 129		
Progesterone													ng/mL	nmol/L
Chemiluminescence	0.64	0.41 - 0.88	5.61	4.49 - 6.73	12.2	9.73 - 14.6	2.05	1.31 - 2.79	17.8	14.3 - 21.4	38.7	30.9 - 46.4		
Prolactin	7.77	6.22 - 9.32	23.7	18.1 - 29.3	39.0	28.9 - 49.0	0.34	0.27 - 0.41	1.03	0.79 - 1.27	1.70	1.26 - 2.13	ng/mL	nmol/L
Prostate Specific Antigen (PSA)													ng/mL	µg/L
Chemiluminescence	0.77	0.62 - 0.93	2.49	1.89 - 3.09	22.2	17.7 - 26.6	0.77	0.62 - 0.93	2.49	1.89 - 3.09	22.2	17.7 - 26.6		
Prostate Specific Antigen, Free (fPSA)													ng/mL	µg/L
Chemiluminescence	0.05	0.04 - 0.06	1.09	0.87 - 1.30	2.95	2.36 - 3.54	0.05	0.04 - 0.06	1.09	0.87 - 1.30	2.95	2.36 - 3.54		
Testosterone													ng/dL	nmol/L
Chemiluminescence	73.2	58.6 - 87.9	410	328 - 492	645	516 - 774	2.54	2.03 - 3.05	14.2	11.4 - 17.1	22.4	17.9 - 26.8		
Theophylline													µg/mL	µmol/L
Chemiluminescence	**		**		**		**		**		**			
Thyroid Stimulating Hormone (TSH)													µIU/mL	mIU/L
Chemiluminescence (TSH)	0.23	0.18 - 0.27	13.5	10.8 - 16.2	24.4	19.5 - 29.3	0.23	0.18 - 0.27	13.5	10.8 - 16.2	24.4	19.5 - 29.3		
Thyroid Stimulating Hormone (TSH)													µIU/mL	mIU/L
Chemiluminescence (TSH-UL)	**		**		**		**		**		**			
Thyroid Uptake													%	%
Chemiluminescence	**		**		**		**		**		**			
Thyroxine, Free (FT4)													ng/dL	pmol/L
Chemiluminescence	1.48	1.19 - 1.78	2.15	1.71 - 2.58	3.90	3.12 - 4.67	19.1	15.3 - 22.9	27.7	22.1 - 33.3	50.1	40.1 - 60.2		
Thyroxine, Total (T4)													µg/dL	nmol/L
Chemiluminescence	**		**		**		**		**		**			
Tobramycin													µg/mL	µmol/L
Chemiluminescence	**		**		**		**		**		**			
Triiodothyronine, Free (FT3)													pg/mL	pmol/L
Chemiluminescence	1.44	1.03 - 1.85	3.93	3.14 - 4.71	7.74	6.20 - 9.29	2.21	1.58 - 2.83	6.03	4.82 - 7.24	11.9	9.52 - 14.3		
Triiodothyronine, Total (T3)													ng/mL	nmol/L
Chemiluminescence	0.65	0.44 - 0.86	1.56	1.24 - 1.88	2.59	2.07 - 3.11	1.00	0.67 - 1.32	2.40	1.90 - 2.89	3.98	3.18 - 4.77		
Valproic Acid													µg/mL	µmol/L
Chemiluminescence	**		**		**		**		**		**			
Vancomycin													µg/mL	µmol/L
Chemiluminescence	**		**		**		**		**		**			
Vitamin B12													pg/mL	pmol/L
Chemiluminescence	211	145 - 276	437	319 - 556	666	520 - 812	155	107 - 203	323	235 - 410	491	384 - 599		

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SIEMENS DIMENSION SYSTEMS														
Acetaminophen P-aminophenol (ACTM)	26.2	20.9 - 31.4	91.1	72.9 - 109	155	124 - 186	µg/mL	173	139 - 208	603	482 - 723	1025	820 - 1230	µmol/L
Carbamazepine PETINIA (CBRM)	3.17	2.54 - 3.80	9.13	7.30 - 11.0	15.2	12.2 - 18.3	µg/mL	13.4	10.7 - 16.1	38.6	30.9 - 46.4	64.4	51.5 - 77.2	µmol/L
Creatine Kinase-MB (CK-MB) EIA (MMB/LMMB)	2.64	2.11 - 3.17	28.2	22.6 - 33.9	58.9	47.1 - 70.7	ng/mL	2.64	2.11 - 3.17	28.2	22.6 - 33.9	58.9	47.1 - 70.7	µg/L
Creatine Kinase-MB (CK-MB) IFCC (MBI)	**		**		**		U/L	**		**		**		µkat/L
Digoxin Magnetic Particles (DGNA)	0.86	0.65 - 1.08	2.01	1.61 - 2.41	2.99	2.39 - 3.59	ng/mL	1.11	0.83 - 1.39	2.58	2.06 - 3.09	3.83	3.07 - 4.60	nmol/L
Ferritin EIA (FERR)	22.0	17.6 - 26.4	206	165 - 247	384	307 - 461	ng/mL	22.0	17.6 - 26.4	206	165 - 247	384	307 - 461	µg/L
Folate LOCI™ (FOLA)	**		**		**		ng/mL	**		**		**		nmol/L
Gentamicin PETINIA (GENT)	1.53	1.22 - 1.84	4.59	3.67 - 5.51	7.94	6.35 - 9.53	µg/mL	3.20	2.56 - 3.84	9.61	7.69 - 11.5	16.6	13.3 - 20.0	µmol/L
Human Chorionic Gonadotropin (HCG) EIA (HCG/LHCG)	8.00	6.40 - 9.60	37.5	30.0 - 45.0	511	409 - 614	mIU/mL	8.00	6.40 - 9.60	37.5	30.0 - 45.0	511	409 - 614	IU/L
Lidocaine PETINIA (LIDO)	**		**		**		µg/mL	**		**		**		µmol/L
Lithium Colorimetric (LI)	**		**		**		mEq/L	**		**		**		mmol/L
N-acetylprocainamide (NAPA) PETINIA (NAPA)	**		**		**		µg/mL	**		**		**		µmol/L
Phenobarbital PETINIA (PHNO)	15.1	12.1 - 18.1	32.9	26.3 - 39.5	50.4	40.3 - 60.4	µg/mL	65.0	52.0 - 78.0	142	113 - 170	217	174 - 260	µmol/L
Phenytoin PETINIA (PTN)	6.51	5.21 - 7.81	15.3	12.2 - 18.4	24.4	19.5 - 29.3	µg/mL	25.8	20.6 - 31.0	60.6	48.5 - 72.8	96.8	77.4 - 116	µmol/L
Procainamide PETINIA (PROC)	**		**		**		µg/mL	**		**		**		µmol/L
Prostate Specific Antigen, Total (PSA) EIA (TPSA)	0.76	0.61 - 0.91	2.37	1.90 - 2.84	24.4	19.5 - 29.2	ng/mL	0.76	0.61 - 0.91	2.37	1.90 - 2.84	24.4	19.5 - 29.2	µg/L
Prostate Specific Antigen, Free (fPSA) EIA (FPSA)	**		**		**		ng/mL	**		**		**		µg/L
Salicylate Colorimetric (SAL)	7.20	5.76 - 8.64	32.3	25.8 - 38.7	57.3	45.8 - 68.7	mg/dL	0.52	0.42 - 0.63	2.34	1.87 - 2.81	4.15	3.32 - 4.98	mmol/L
Theophylline PETINIA (THEO)	5.31	4.25 - 6.37	12.8	10.2 - 15.3	20.1	16.0 - 24.1	µg/mL	29.5	23.6 - 35.4	70.8	56.6 - 84.9	111	89.0 - 134	µmol/L
Thyroid Stimulating Hormone (TSH) EIA (TSH)	**		**		**		µIU/mL	**		**		**		mIU/L
Thyroid Stimulating Hormone (TSH) LOCI™ (TSHL)	0.31	0.25 - 0.37	18.4	14.7 - 22.1	39.0	30.5 - 47.5	µIU/mL	0.31	0.25 - 0.37	18.4	14.7 - 22.1	39.0	30.5 - 47.5	mIU/L
Thyroid Uptake EIA (TU)	**		**		**		%U	**		**		**		%U
Thyroxine, Free (FT4) EIA (FT4)	**		**		**		ng/dL	**		**		**		pmol/L
Thyroxine, Free (FT4) LOCI™ (FT4L)	1.56	1.24 - 1.87	2.27	1.82 - 2.73	4.55	3.64 - 5.46	ng/dL	20.0	16.0 - 24.0	29.3	23.4 - 35.1	58.6	46.9 - 70.3	pmol/L
Thyroxine, Total (T4) EIA (T4)	10.2	8.14 - 12.2	11.0	8.79 - 13.2	11.7	9.37 - 14.1	µg/dL	131	105 - 157	141	113 - 170	151	121 - 181	nmol/L
Tobramycin PETINIA (TOBR)	**		**		**		µg/mL	**		**		**		µmol/L
Triiodothyronine, Free (FT3) LOCI™ (FT3)	**		**		**		pg/mL	**		**		**		pmol/L
Triiodothyronine, Total (T3) LOCI™ (T3)	**		**		**		ng/mL	**		**		**		nmol/L
Valproic Acid EIA (VALP)	41.0	32.8 - 49.2	82.0	65.6 - 98.4	121	96.5 - 145	µg/mL	285	228 - 341	568	455 - 682	836	669 - 1003	µmol/L
Vancamycin PETINIA (VANC)	7.65	6.12 - 9.17	21.7	17.3 - 26.0	34.7	27.8 - 41.7	µg/mL	5.28	4.22 - 6.33	15.0	12.0 - 18.0	24.0	19.2 - 28.8	µmol/L
Vitamin B12 LOCI™ (VB12)	**		**		**		pg/mL	**		**		**		pmol/L

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SIEMENS DIMENSION VISTA SYSTEMS														
Acetaminophen														
P-aminophenol (ACTM)	26.6	21.3 - 31.9	93.6	74.9 - 112	164	131 - 196	µg/mL	176	141 - 211	619	495 - 743	1082	866 - 1298	µmol/L
Alpha-Fetoprotein (AFP)														
LOC1™ (AFP)	12.4	9.90 - 14.9	75.7	60.6 - 90.9	140	112 - 169	ng/mL	10.2	8.18 - 12.3	62.5	50.0 - 75.0	116	92.8 - 139	IU/mL
Carbamazepine														
PETINIA (CBRM)	3.46	2.76 - 4.15	9.23	7.39 - 11.1	14.8	11.8 - 17.8	µg/mL	14.6	11.7 - 17.6	39.1	31.3 - 46.9	62.6	50.1 - 75.2	µmol/L
Carcinoembryonic Antigen (CEA)														
LOC1™ (CEA)	0.97	0.77 - 1.16	12.3	9.85 - 14.8	24.1	19.3 - 28.9	ng/mL	0.97	0.77 - 1.16	12.3	9.85 - 14.8	24.1	19.3 - 28.9	µg/L
Creatine Kinase-MB (CK-MB)														
IFCC (MBI)	**		**		**		U/L	**		**		**		µkat/L
Creatine Kinase-MB (CK-MB)														
LOC1™ (MMB)	4.58	3.66 - 5.50	30.3	24.2 - 36.3	54.4	43.5 - 65.3	ng/mL	4.58	3.66 - 5.50	30.3	24.2 - 36.3	54.4	43.5 - 65.3	µg/L
Digoxin														
LOC1™ (DIGXN)	0.76	0.61 - 0.91	1.81	1.45 - 2.17	2.93	2.34 - 3.52	ng/mL	0.97	0.78 - 1.17	2.32	1.85 - 2.78	3.75	3.00 - 4.50	nmol/L
Estradiol														
LOC1™ (E2)	31.8	25.4 - 38.1	222	177 - 266	432	345 - 518	pg/mL	117	93.3 - 140	814	652 - 977	1584	1268 - 1901	pmol/L
Ferritin														
LOC1™ (FERR)	**		**		**		ng/mL	**		**		**		µg/L
Folate														
LOC1™ (FOL)	1.82	1.07 - 2.57	4.57	3.60 - 5.54	9.49	7.59 - 11.4	ng/mL	4.12	2.42 - 5.83	10.4	8.16 - 12.6	21.5	17.2 - 25.8	nmol/L
Follicle Stimulating Hormone (FSH)														
LOC1™ (FSH)	4.38	3.50 - 5.26	34.1	27.3 - 40.9	63.9	51.1 - 76.7	mIU/mL	4.38	3.50 - 5.26	34.1	27.3 - 40.9	63.9	51.1 - 76.7	IU/L
Gentamicin														
PETINIA (GENT)	1.49	1.04 - 1.94	4.54	3.63 - 5.45	7.78	6.23 - 9.34	µg/mL	3.12	2.19 - 4.06	9.51	7.60 - 11.4	16.3	13.0 - 19.6	µmol/L
Homocysteine														
Nephelometric (HCYS)	**		**		**		µmol/L	**		**		**		µmol/L
Human Chorionic Gonadotropin-Beta (hCG)														
LOC1™ (hCG)	8.07	6.46 - 9.69	37.9	30.3 - 45.5	492	394 - 590	mIU/mL	8.07	6.46 - 9.69	37.9	30.3 - 45.5	492	394 - 590	IU/L
Immunoglobulin E (IGE)														
Nephelometric (IGE)	**		**		**		IU/mL	**		**		**		kIU/L
Lidocaine														
PETINIA (LIDO)	**		**		**		µg/mL	**		**		**		µmol/L
Lithium														
Colorimetric (LITH)	0.85	0.61 - 1.09	1.33	1.06 - 1.59	1.84	1.48 - 2.21	mEq/L	0.85	0.61 - 1.09	1.33	1.06 - 1.59	1.84	1.48 - 2.21	mmol/L
Luteinizing Hormone (LH)														
LOC1™ (LH)	5.25	4.20 - 6.30	39.2	31.3 - 47.0	71.7	57.4 - 86.1	mIU/mL	5.25	4.20 - 6.30	39.2	31.3 - 47.0	71.7	57.4 - 86.1	IU/L
N-acetylprocainamide (NAPA)														
PETINIA (NAPA)	**		**		**		µg/mL	**		**		**		µmol/L
Phenobarbital														
PETINIA (PHNO)	14.9	11.7 - 18.1	31.6	25.3 - 37.9	47.4	37.9 - 56.9	µg/mL	64.2	50.4 - 78.0	136	109 - 163	204	163 - 245	µmol/L
Phenytoin														
PETINIA (PTN)	7.42	4.69 - 10.2	15.9	12.7 - 19.0	24.4	19.5 - 29.3	µg/mL	29.4	18.6 - 40.3	62.8	50.3 - 75.4	96.8	77.4 - 116	µmol/L
Procainamide														
PETINIA (PROC)	**		**		**		µg/mL	**		**		**		µmol/L
Prolactin														
LOC1™ (PRL)	8.97	7.18 - 10.8	31.1	24.9 - 37.3	54.9	43.9 - 65.9	ng/mL	0.39	0.31 - 0.47	1.35	1.08 - 1.62	2.39	1.91 - 2.87	nmol/L
Prostate Specific Antigen, Free (fPSA)														
LOC1™ (fPSA)	0.04	0.03 - 0.05	0.97	0.78 - 1.16	2.75	2.20 - 3.30	ng/mL	0.04	0.03 - 0.05	0.97	0.78 - 1.16	2.75	2.20 - 3.30	µg/L
Prostate Specific Antigen, Total (PSA)														
LOC1™ (TPSA)	0.84	0.68 - 1.01	2.61	2.09 - 3.13	26.6	21.3 - 32.0	ng/mL	0.84	0.68 - 1.01	2.61	2.09 - 3.13	26.6	21.3 - 32.0	µg/L
Salicylate														
Colorimetric (SAL)	7.36	5.89 - 8.83	33.5	26.8 - 40.2	59.5	47.6 - 71.4	mg/dL	0.53	0.43 - 0.64	2.43	1.94 - 2.91	4.31	3.45 - 5.17	mmol/L
Theophylline														
PETINIA (THEO)	5.14	4.11 - 6.17	12.8	10.2 - 15.3	20.5	16.4 - 24.6	µg/mL	28.5	22.8 - 34.2	70.9	56.7 - 85.0	114	91.0 - 137	µmol/L
Thyroid Stimulating Hormone (TSH)														
LOC1™ (TSH)	0.27	0.21 - 0.32	17.6	14.1 - 21.2	37.8	30.2 - 45.3	µIU/mL	0.27	0.21 - 0.32	17.6	14.1 - 21.2	37.8	30.2 - 45.3	mIU/L
Thyroid Uptake														
EMIT (TU)	**		**		**		%U	**		**		**		%U
Thyroxine, Free (FT4)														
LOC1™ (FT4)	1.62	1.30 - 1.94	2.24	1.80 - 2.69	4.18	3.34 - 5.01	ng/dL	20.9	16.7 - 25.0	28.9	23.1 - 34.7	53.7	43.0 - 64.5	pmol/L
Thyroxine, Total (T4)														
EIA (T4)	**		**		**		µg/dL	**		**		**		nmol/L
Tobramycin														
PETINIA (TOBR)	0.88	0.57 - 1.20	3.32	2.61 - 4.03	5.93	4.42 - 7.45	µg/mL	1.89	1.22 - 2.56	7.11	5.59 - 8.63	12.7	9.46 - 15.9	µmol/L
Triiodothyronine, Free (FT3)														
LOC1™ (FT3)	0.60	<0.50 - 0.87	3.53	2.82 - 4.23	9.28	7.42 - 11.1	pg/mL	0.92	<0.77 - 1.34	5.42	4.34 - 6.50	14.3	11.4 - 17.1	pmol/L
Triiodothyronine, Total (T3)														
ACMIA (T3)	**		**		**		ng/mL	**		**		**		nmol/L
Valproic Acid														
PETINIA (VALP)	43.5	34.8 - 52.2	86.3	69.0 - 104	126	101 - >150	µg/mL	301	241 - 362	598	479 - 718	874	699 - >1040	µmol/L
Vancomycin														
PETINIA (VANC)	7.46	5.97 - 8.95	20.8	16.7 - 25.0	33.1	26.4 - 39.7	µg/mL	5.15	4.12 - 6.18	14.4	11.5 - 17.2	22.8	18.2 - 27.4	µmol/L
Vitamin B12														
LOC1™ (VB12)	314	251 - 376	546	437 - 656	795	636 - 954	pg/mL	231	185 - 278	403	322 - 484	587	469 - 704	pmol/L

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LIQUID ASSAYED IMMUNOASSAY CONTROL

IVD

U	CON							SI						
	LIA24091A		LIA24092A		LIA24093A		U	LIA24091A		LIA24092A		LIA24093A		U
	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>		\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	
SIEMENS IMMULITE SYSTEMS														
Alpha-Fetoprotein (AFP)														
Chemiluminescence (AF)	12.2	9.73 - 14.6	67.0	53.6 - 80.4	119	95.3 - 143	ng/mL	10.0	8.04 - 12.1	55.4	44.3 - 66.4	98.4	78.7 - 118	IU/mL
Carbamazepine														
Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Carcinoembryonic Antigen (CEA)														
Chemiluminescence (CEA)	1.15	0.87 - 1.44	14.3	11.4 - 17.2	28.5	22.8 - 34.2	ng/mL	1.15	0.87 - 1.44	14.3	11.4 - 17.2	28.5	22.8 - 34.2	µg/L
Cortisol														
Chemiluminescence	**		**		**		µg/dL	**		**		**		nmol/L
DHEA-Sulfate (DHEA-S)														
Chemiluminescence	**		**		**		µg/dL	**		**		**		µmol/L
Digoxin														
Chemiluminescence	**		**		**		ng/mL	**		**		**		nmol/L
Estradiol														
Chemiluminescence	64.6	42.5 - 86.7	294	233 - 355	560	420 - 700	pg/mL	237	156 - 318	1080	855 - 1304	2056	1544 - 2569	pmol/L
Ferritin														
Chemiluminescence	**		**		**		ng/mL	**		**		**		µg/L
Folate														
Chemiluminescence	2.00	<1.00 - 3.47	5.21	2.83 - 7.59	8.41	5.85 - 11.0	ng/mL	4.53	<2.27 - 7.87	11.8	6.41 - 17.2	19.1	13.3 - 24.9	nmol/L
Follicle Stimulating Hormone (FSH)														
Chemiluminescence	**		**		**		mIU/mL	**		**		**		IU/L
Homocysteine														
Chemiluminescence	**		**		**		µmol/L	**		**		**		µmol/L
Human Chorionic Gonadotropin (hCG)														
Chemiluminescence	10.1	8.08 - 12.1	45.8	36.6 - 54.9	565	452 - 678	mIU/mL	10.1	8.08 - 12.1	45.8	36.6 - 54.9	565	452 - 678	IU/L
Human Chorionic Gonadotropin (hCG)														
Chemiluminescence (STAT/Turbo HCG)	**		**		**		mU/mL	**		**		**		IU/L
Human Growth Hormone (HGH)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		µg/L
Immunoglobulin E (IgE)														
Chemiluminescence	**		**		**		IU/mL	**		**		**		kIU/L
Insulin														
Chemiluminescence	2.34	<2.00 - 3.19	15.7	12.6 - 18.8	25.4	20.3 - 30.4	µU/mL	16.2	<13.9 - 22.1	109	87.3 - 131	176	141 - 211	pmol/L
Luteinizing Hormone (LH)														
Chemiluminescence	**		**		**		mU/mL	**		**		**		IU/L
Phenobarbital														
Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Phenytoin														
Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Progesterone														
Chemiluminescence	0.81	0.59 - 1.02	7.79	6.04 - 9.55	14.7	11.7 - 17.6	ng/mL	2.56	1.89 - 3.23	24.8	19.2 - 30.4	46.6	37.3 - 55.9	nmol/L
Prolactin														
Chemiluminescence	7.42	5.94 - 8.91	25.6	19.7 - 31.5	43.3	34.7 - 52.0	ng/mL	0.32	0.26 - 0.39	1.11	0.86 - 1.37	1.88	1.51 - 2.26	nmol/L
Prostate Specific Antigen, Free (fPSA)														
Chemiluminescence (fPSA)	**		**		**		ng/mL	**		**		**		µg/L
Prostate Specific Antigen, Total (PSA)														
Chemiluminescence (PTS)	0.64	0.51 - 0.76	2.18	1.63 - 2.74	19.3	15.4 - 23.2	ng/mL	0.64	0.51 - 0.76	2.18	1.63 - 2.74	19.3	15.4 - 23.2	µg/L
Testosterone														
Chemiluminescence	**		**		**		ng/dL	**		**		**		nmol/L
Theophylline														
Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Thyroglobulin														
Chemiluminescence	**		**		**		ng/mL	**		**		**		µg/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence (3rd Gen.)	0.25	0.19 - 0.31	17.5	12.9 - 22.1	33.0	26.4 - 39.7	µIU/mL	0.25	0.19 - 0.31	17.5	12.9 - 22.1	33.0	26.4 - 39.7	mIU/L
Thyroid Stimulating Hormone (TSH)														
Chemiluminescence (Rapid)	**		**		**		µIU/mL	**		**		**		mIU/L
Thyroid Uptake														
Chemiluminescence	**		**		**		%U	**		**		**		%U
Thyroxine, Free (FT4)														
Chemiluminescence	**		**		**		ng/dL	**		**		**		pmol/L
Thyroxine, Total (T4)														
Chemiluminescence	**		**		**		µg/dL	**		**		**		nmol/L
Triiodothyronine, Free (FT3)														
Chemiluminescence	**		**		**		pg/mL	**		**		**		pmol/L
Triiodothyronine, Total (T3)														
Chemiluminescence	**		**		**		ng/mL	**		**		**		nmol/L
Valproic Acid														
Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Vitamin B12														
Chemiluminescence	**		**		**		pg/mL	**		**		**		pmol/L

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	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>		
SIEMENS STRATUS CS														
Creatine Kinase-MB (CK-MB) FEIA (CK-MB)	**		**		**		ng/mL	**		**		**		µg/L
Human Chorionic Gonadotropin-Beta (BHCG) FEIA	**		**		**		mIU/mL	**		**		**		IU/L

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	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>		\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	
THERMO FISHER SCIENTIFIC INDIKO BASIC SYSTEMS														
Acetaminophen EIA (DRI)	14.0	11.2 - 16.9	74.4	59.5 - 89.3	149	115 - 183	µg/mL	92.9	74.1 - 112	492	394 - 590	986	761 - 1211	µmol/L
Amikacin QMS	6.04	3.45 - 8.63	17.2	10.6 - 23.8	26.4	17.5 - 35.3	µg/mL	10.3	5.90 - 14.7	29.4	18.1 - 40.6	45.1	29.8 - 60.4	µmol/L
Carbamazepine CEDIA	3.04	2.43 - 3.65	8.43	6.74 - 10.1	14.0	11.2 - 16.8	µg/mL	12.9	10.3 - 15.4	35.7	28.5 - 42.8	59.2	47.4 - 71.0	µmol/L
Digoxin EIA (DRI)	**		**		**		µg/mL	**		**		**		µmol/L
Ethanol ADH (DRI)	32.3	25.9 - 38.8	113	90.4 - 136	217	173 - 260	mg/dL	7.02	5.61 - 8.42	24.5	19.6 - 29.4	47.1	37.6 - 56.5	mmol/L
Gentamicin QMS	1.52	0.80 - 2.25	4.93	1.96 - 7.89	9.07	7.26 - >10.0	µg/mL	3.19	1.67 - 4.72	10.3	4.11 - 16.5	19.0	15.2 - >20.9	µmol/L
Lithium Colorimetric (TRACE Infinity)	0.70	0.56 - 0.84	1.17	0.93 - 1.40	1.60	1.28 - 1.92	mmol/L	0.70	0.56 - 0.84	1.17	0.93 - 1.40	1.60	1.28 - 1.92	mEq/L
Phenytoin CEDIA	4.90	3.92 - 5.88	13.0	10.4 - 15.7	20.7	16.6 - 24.9	µg/mL	19.4	15.5 - 23.3	51.7	41.4 - 62.1	82.2	65.8 - 98.7	µmol/L
Theophylline CEDIA	2.47	1.88 - 3.05	9.72	7.77 - 11.7	16.2	12.9 - 19.4	µg/mL	13.7	10.5 - 16.9	53.9	43.1 - 64.7	89.7	71.7 - 108	µmol/L
Tobramycin QMS	2.78	2.22 - 3.34	6.12	4.90 - 7.34	7.75	6.20 - 9.30	µg/mL	5.95	4.76 - 7.14	13.1	10.5 - 15.7	16.6	13.3 - 19.9	µmol/L
Tricyclic Antidepressants EIA (DRI)	147	117 - 176	468	215 - 722	950	760 - >1000	ng/mL	0.56	0.45 - 0.67	1.78	0.82 - 2.74	3.61	2.89 - >3.80	µmol/L
Valproic Acid CEDIA	33.0	26.4 - 39.6	74.2	59.3 - 89.0	113	89.3 - 137	µg/mL	229	183 - 275	514	411 - 617	784	619 - 949	µmol/L
Vancomycin QMS	**		**		**		µg/mL	**		**		**		µmol/L

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	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>		
THERMO FISHER SCIENTIFIC INDIKO PLUS SYSTEMS														
Acetaminophen														
EIA (DRI)	13.3	7.20 - 19.5	73.5	53.9 - 93.1	153	76.5 - >200	μg/mL	88.3	47.6 - 129	486	357 - 616	1011	506 - >1323	μmol/L
Amikacin QMS	5.60	4.06 - 7.14	16.2	12.9 - 19.4	25.4	20.3 - 30.5	μg/mL	9.56	6.93 - 12.2	27.6	22.1 - 33.1	43.4	34.7 - 52.0	μmol/L
Carbamazepine														
CEDIA	2.72	2.18 - 3.26	8.20	6.56 - 9.84	13.3	10.6 - 15.9	μg/mL	11.5	9.21 - 13.8	34.7	27.8 - 41.6	56.2	45.0 - 67.5	μmol/L
Digoxin EIA (DRI)	0.63	0.26 - 1.00	1.74	1.25 - 2.23	2.83	2.22 - 3.43	μg/mL	0.81	0.33 - 1.28	2.23	1.60 - 2.86	3.62	2.85 - 4.40	μmol/L
Ethanol ADH (DRI)	36.1	28.9 - 43.3	135	95.8 - 174	207	166 - 248	mg/dL	7.83	6.27 - 9.40	29.3	20.8 - 37.7	44.9	35.9 - 53.9	mmol/L
Gentamicin														
QMS	1.33	1.07 - 1.60	4.24	3.39 - 5.09	7.09	5.67 - 8.50	μg/mL	2.79	2.23 - 3.35	8.89	7.11 - 10.7	14.8	11.9 - 17.8	μmol/L
Lithium Colorimetric (TRACE Infinity)	0.66	0.52 - 0.79	1.08	0.87 - 1.30	1.54	1.23 - 1.84	mmol/L	0.66	0.52 - 0.79	1.08	0.87 - 1.30	1.54	1.23 - 1.84	mEq/L
Phenytoin														
CEDIA	4.39	3.51 - 5.26	12.1	9.69 - 14.5	19.6	15.7 - 23.5	μg/mL	17.4	13.9 - 20.9	48.0	38.4 - 57.6	77.7	62.2 - 93.2	μmol/L
Theophylline														
CEDIA	4.34	3.46 - 5.21	11.2	8.97 - 13.5	17.6	14.1 - 21.2	μg/mL	24.1	19.2 - 28.9	62.3	49.8 - 74.7	97.9	78.3 - 117	μmol/L
Tobramycin														
QMS	2.88	2.31 - 3.46	6.53	5.22 - 7.83	8.49	5.84 - >10.0	μg/mL	6.17	4.93 - 7.40	14.0	11.2 - 16.8	18.2	12.5 - >21.4	μmol/L
Tricyclic Antidepressants														
EIA (DRI)	121	96.7 - 145	381	281 - 481	713	548 - 878	ng/mL	0.46	0.37 - 0.55	1.45	1.07 - 1.83	2.71	2.08 - 3.34	μmol/L
Valproic Acid														
CEDIA	31.0	24.5 - 37.5	70.6	56.4 - 84.7	107	85.9 - 129	μg/mL	215	170 - 260	489	391 - 587	744	596 - 893	μmol/L
Vancomycin														
QMS	5.88	4.70 - 7.05	16.0	12.3 - 19.7	25.8	20.6 - 31.0	μg/mL	4.06	3.25 - 4.87	11.0	8.50 - 13.6	17.8	14.2 - 21.4	μmol/L

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	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>	\bar{x}	<R>		
TOSOH AIA SYSTEMS														
Alpha-Fetoprotein (AFP) EIA	12.8	9.00 - 16.6	71.6	50.1 - 93.1	126	88.1 - 164	ng/mL	10.6	7.43 - 13.7	59.1	41.4 - 76.9	104	72.8 - 135	IU/mL
Carcinoembryonic Antigen (CEA) EIA	1.40	1.00 - 1.80	8.90	6.20 - 11.6	16.2	11.3 - 21.1	ng/mL	1.40	1.00 - 1.80	8.90	6.20 - 11.6	16.2	11.3 - 21.1	µg/L
Cortisol EIA	4.60	3.20 - 6.00	20.1	14.1 - 26.1	35.5	24.9 - 46.2	µg/dL	127	88.3 - 166	555	389 - 720	979	687 - 1275	nmol/L
Creatine Kinase-MB (CK-MB) EIA	4.70	3.30 - 6.10	36.9	25.8 - 48.0	68.3	47.8 - 88.8	ng/mL	4.70	3.30 - 6.10	36.9	25.8 - 48.0	68.3	47.8 - 88.8	µg/L
DHEA-Sulfate (DHEA-S) EIA	99.7	69.8 - 130	292	205 - 380	497	348 - 646	µg/dL	2.70	1.89 - 3.51	7.92	5.54 - 10.3	13.5	9.42 - 17.5	µmol/L
Estradiol EIA (E2)	135	94.2 - 175	398	278 - 517	812	569 - 1056	pg/mL	494	346 - 642	1460	1022 - 1898	2982	2088 - 3877	pmol/L
Estradiol EIA (hsE2)	39.5	27.7 - 51.4	200	140 - 260	347	243 - 451	pg/mL	145	102 - 189	733	513 - 953	1272	891 - 1654	pmol/L
Ferritin EIA	15.0	10.5 - 19.5	163	114 - 212	310	217 - 403	ng/mL	15.0	10.5 - 19.5	163	114 - 212	310	217 - 403	µg/L
Folate EIA	7.48	4.63 - 10.3	17.7	12.4 - >20.0	>20.0		ng/mL	16.9	10.5 - 23.4	40.0	28.0 - >45.3	>45.3		nmol/L
Follicle Stimulating Hormone (FSH) EIA	5.50	3.90 - 7.20	43.6	30.5 - 56.7	80.4	56.3 - 105	mIU/mL	5.50	3.90 - 7.20	43.6	30.5 - 56.7	80.4	56.3 - 105	IU/L
Homocysteine EIA	**		**		**		µmol/L	**		**		**		µmol/L
Human Chorionic Gonadotropin-Beta (hCG) EIA	8.10	5.70 - 10.5	36.9	25.8 - 48.0	>400		mIU/mL	8.10	5.70 - 10.5	36.9	25.8 - 48.0	>400		IU/L
Human Growth Hormone (HGH) EIA	2.49	1.74 - 3.24	14.4	10.1 - 18.8	25.2	17.7 - 32.8	ng/mL	2.49	1.74 - 3.24	14.4	10.1 - 18.8	25.2	17.7 - 32.8	µg/L
Immunoglobulin E (IgE) EIA	39.1	27.4 - 50.8	189	132 - 245	338	236 - 439	IU/mL	39.1	27.4 - 50.8	189	132 - 245	338	236 - 439	kIU/L
Insulin EIA	9.00	6.30 - 11.7	70.5	49.4 - 91.7	128	89.8 - 167	µIU/mL	62.5	43.8 - 81.3	490	343 - 637	891	624 - 1158	pmol/L
Luteinizing Hormone (LH) EIA (LH II)	4.10	2.90 - 5.30	29.5	20.7 - 38.4	54.2	37.9 - 70.5	mIU/mL	4.10	2.90 - 5.30	29.5	20.7 - 38.4	54.2	37.9 - 70.5	IU/L
Progesterone EIA (PR-2)	0.63	0.44 - 0.82	8.84	6.19 - 11.5	17.0	11.9 - 22.1	ng/mL	2.00	1.40 - 2.61	28.1	19.7 - 36.5	54.0	37.8 - 70.2	nmol/L
Progesterone EIA (PR-3)	0.81	0.57 - 1.05	10.9	7.64 - 14.2	21.7	15.2 - 28.2	ng/mL	2.58	1.81 - 3.34	34.7	24.3 - 45.2	69.1	48.3 - 89.8	nmol/L
Prolactin EIA	8.00	5.60 - 10.4	24.7	17.3 - 32.1	40.9	28.6 - 53.2	ng/mL	0.35	0.24 - 0.45	1.07	0.75 - 1.40	1.78	1.24 - 2.31	nmol/L
Prostate Specific Antigen, Total (PSA) EIA	0.92	0.64 - 1.20	2.58	1.81 - 3.35	25.4	17.8 - 33.0	ng/mL	0.92	0.64 - 1.20	2.58	1.81 - 3.35	25.4	17.8 - 33.0	µg/L
Testosterone EIA	118	82.7 - 154	771	539 - 1002	1481	1037 - 1925	ng/dL	4.10	2.87 - 5.33	26.7	18.7 - 34.8	51.4	36.0 - 66.8	nmol/L
Thyroid Stimulating Hormone (TSH) EIA	0.32	0.22 - 0.42	16.5	11.5 - 21.4	30.4	21.3 - 39.5	µIU/mL	0.32	0.22 - 0.42	16.5	11.5 - 21.4	30.4	21.3 - 39.5	mIU/L
Thyroid Stimulating Hormone (TSH) EIA (3G)	0.35	0.25 - 0.46	16.4	11.5 - 21.3	29.7	20.8 - 38.6	µIU/mL	0.35	0.25 - 0.46	16.4	11.5 - 21.3	29.7	20.8 - 38.6	mIU/L
Thyroid Uptake EIA	25.5	17.9 - 33.2	37.6	26.3 - 48.9	51.4	36.0 - >60.0	%U	25.5	17.9 - 33.2	37.6	26.3 - 48.9	51.4	36.0 - >60.0	%U
Thyroxine, Free (FT4) EIA	2.05	1.44 - 2.67	3.22	2.25 - 4.19	5.36	3.75 - 6.97	ng/dL	26.4	18.5 - 34.4	41.4	29.0 - 53.9	69.0	48.3 - 89.7	pmol/L
Thyroxine, Total (T4) EIA	9.00	6.30 - 11.7	9.60	6.70 - 12.5	10.4	7.30 - 13.5	µg/dL	116	81.1 - 151	124	86.2 - 161	134	94.0 - 174	nmol/L
Triiodothyronine, Free (FT3) EIA (FT3)	2.07	1.45 - 2.69	7.41	5.19 - 9.63	19.4	13.6 - >25.0	pg/mL	3.18	2.23 - 4.13	11.4	7.97 - 14.8	29.8	20.8 - >38.4	pmol/L
Triiodothyronine, Total (T3) EIA	0.54	0.38 - 0.70	1.38	0.97 - 1.79	2.26	1.58 - 2.94	ng/mL	0.83	0.58 - 1.08	2.12	1.49 - 2.75	3.47	2.43 - 4.52	nmol/L
Vitamin B12 EIA	452	316 - 588	864	605 - 1123	1269	888 - 1650	pg/mL	333	233 - 434	637	446 - 829	936	655 - 1217	pmol/L

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BNII®, **proSPEC®**, Reg. TM: Siemens Healthcare Diagnostics, GmbH. Marburg, Germany.
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AIA Series®, **NexIA®**, Reg. TM: Tosoh Medics, Inc, S.San Francisco, CA.

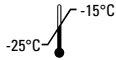
- ** **Data not available. If interested in participating in our value assignment process, please fax or email your contact information to our Value Assignment group at 510-771-1539, or mgc-va@thermofisher.com.**
- ** Keine Daten verfügbar. Falls Sie interessiert sind, an unserem Wertzuweisungsverfahren teilzunehmen, senden Sie bitte ein Fax oder eine E-Mail mit Ihren Kontaktdaten an unsere Abteilung „Value Assignment“ unter 510-771-1539 bzw. mgc-va@thermofisher.com.
- ** Données non disponibles. Si vous souhaitez participer à notre processus d'affectation des valeurs, veuillez nous faire parvenir vos coordonnées par fax ou par e-mail au groupe Value Assignment au 510-771-1539 ou à l'adresse mgc-va@thermofisher.com.
- ** Dati non disponibili. Per partecipare al processo di assegnazione dei valori, inviare tramite fax o e-mail le proprie informazioni di contatto al gruppo di assegnazione dei valori al numero 510-771-1539 o all'indirizzo mgc-va@thermofisher.com.
- ** Datos no disponibles. Si está interesado en participar en nuestro proceso de asignación de valores, envíe un fax o un correo electrónico con su información de contacto a nuestro grupo de asignación de valores al +1 510-771-1539 o a mgc-va@thermofisher.com.
- ** Data er ikke tilgængelige. Hvis du er interesseret i at deltage i vores værditildelingsproces, kan du sende en fax eller en e-mail med dine kontaktoplysninger til vores værditildelingsgruppe på 510-771-1539 eller mgc-va@thermofisher.com.
- ** Geen gegevens beschikbaar. Als u geïnteresseerd bent in deelname aan ons waardetoekeningsproces, kunt u uw contactgegevens per fax of e-mail naar onze Value Assignment-groep sturen. Tel.: 510-771-1539. E-mail: mgc-va@thermofisher.com.
- ** Tietoja ei saatavilla. Jos olet kiinnostunut osallistumaan arvojen määrittämissiime, faksoo tai lähetä sähköpostilla yhteystietosi Value Assignment -osastollemme numeroon 510 771 1539 tai osoitteeseen mgc-va@thermofisher.com.
- ** Δεν υπάρχουν διαθέσιμα δεδομένα. Αν ενδιαφέρεστε να συμμετάσχετε στη διαδικασία καθορισμού τιμών που εφαρμόζουμε, στείλτε φαξ ή μήνυμα ηλ. ταχυδρομείου με τα στοιχεία επικοινωνίας σας στην ομάδα Καθορισμού τιμών της εταιρείας μας στον αριθμό 510-771-1539 ή στην ηλ. διεύθυνση mgc-va@thermofisher.com.
- ** Data ikke tilgjengelige. Dersom dere er interessert i å delta i verdifastsettelsesprosessen vår, kan dere sende kontaktinformasjonen deres til verdifastsettelsesgruppen vår per faks til faksnummer 510-771-1539 eller per e-post til mgc-va@thermofisher.com.
- ** Dane nie są dostępne. W razie zainteresowania udziałem w naszym procesie określenia wartości należy przysłać faksem dane kontaktowe do naszej grupy ds. określenia wartości pod numer 510-771-1539 lub pocztą elektroniczną na adres mgc-va@thermofisher.com.
- ** Informações não disponíveis. Caso esteja interessado em participar no nosso processo de atribuição de valores, por favor envie por fax ou por e-mail as suas informações de contacto para o nosso grupo de atribuição de valores pelo número 510-771-1539, ou mgc-va@thermofisher.com.
- ** Данных нет. Если вы заинтересованы в участии в нашем процессе оценки, обращайтесь в нашу группу оценки по факсу 510-771-1539 или по электронной почте mgc-va@thermofisher.com и укажите свою контактную информацию.
- ** Data ej tillgängliga. Om du är intresserad av att delta i vår process för fastställning av värden kan du skicka ett fax eller e-postmeddelande med dina kontaktoppgifter till vår avdelning för analysvärden, telefonnummer +1 510-771-1539 eller mgc-va@thermofisher.com.
- ** Mevcut değil. Değer atama sürecimize katılmaya ilgi duyarsanız, lütfen iletişim bilgilerinizi 510-771-1539 numarasındaki Değer Atama grubumuza fakslayın veya mgc-va@thermofisher.com'a veya e-posta gönderin.
- ** 无法提供数据。如果有兴趣参与我们的赋值过程，请传真或以电子邮件发送您的联系方式到我们的赋值小组。传真号码 510-771-1539，或 mgc-va@thermofisher.com。
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LOT

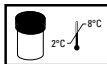
Lot Number / Chargennummer / Numéro de lot / Numero di lotto / Número de lote / Partinummer / Partijnummer / Eränumero / Αριθμός παρτίδας / Lotnummer / Numer partii / Número de lote / Номер лота / Partinummer / Lot Numarası / 批号 / ロット番号



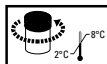
"Use By" date / Verwendbar bis / Date limite d'utilisation optimale / "Utilizzare entro" / Fecha límite de uso / "Anvendes før"-dato / Houdbaarheidsdatum / "Käyt. viim."-päivämäärä / Ημερομηνία λήξης / Utløpsdato / Termin przydatności / Data de validade / Дата «Использовать до» / Utgångsdatum / "Son Kullanim" tarihi / 此日期前使用 / 使用期限



Shelf life: Frozen Temperature / Date limite d'utilisation optimale / Durée de conservation : température de congélation / Data di scadenza: se conservato a temperatura di congelamento / Vida útil: temperatura de congelación / Houdbarhed: Frysetemperatur / Houdbaarheidsperiode: in bevroren toestand / Käyttöikä: pakastuslämpötilassa / Διάρκεια ζωής: θερμοκρασία κατάψυξης / Holdbarhet: Frysetemperatur / Okres trwałości: temperatura zamrażania / Prazo de validade: Temperatura congelada / Срок хранения: температура замораживания / Hållbarhetstid: Fryst temperatur / Raf ömrü: Donma Sıcaklığı / 保质期: 冻结温度 / 有効期間: 凍結時温度



Unopened Vial Stability: Refrigerated Temperature / Haltbarkeit des ungeöffneten Fläschchens: Kühltemperatur / Stabilité du flacon non ouvert : température de réfrigération / Stabilità provetta non aperta: a temperatura refrigerata / Estabilidad del vial sin abrir: temperatura refrigerada / Stabilitet i uåbnet hætteglas: Nedkølet / Stabilitet van ongeopend flesje: in gekoelde toestand / Avaamattoman ampullin stabiilius: jääkaappilämpötilassa / Σταθερότητα σφραγισμένου φιαλιδίου: θερμοκρασία ψύξης / Stabilitet i uåbnet tilstand: Kjøletemperatur / Stabiłność odczynników w nieotwartej fiole: temperatura chłodzenia / Estabilidade no frasco fechado: Temperatura refrigerada / Стабильность не вскрытого флакона: температура охлаждения / Hållbarhet vid öppnad flaska: kyld temperatur / Açılmamış Flakon Stabillitesi: Soğutulmuş Sıcaklık / 未开封药瓶稳定性: 冷藏温度 / 未开封のバイアル安定性: 冷蔵温度



Opened Vial Stability: Refrigerated Temperature / Haltbarkeit des geöffneten Fläschchens: Kühltemperatur / Stabilité du flacon ouvert : température de réfrigération / Stabilità provetta aperta: a temperatura refrigerata / Estabilidad del vial abierto: temperatura refrigerada / Stabilitet i åbnet hætteglas: Nedkølet / Stabilitet van geopend flesje: in gekoelde toestand / Avatun ampullin stabiilius: jääkaappilämpötilassa / Σταθερότητα ανοιγμένου φιαλιδίου: θερμοκρασία ψύξης / Stabilitet i åpnet tilstand: Kjøletemperatur / Stabiłność odczynników w otwartej fiole: temperatura chłodzenia / Estabilidade no frasco aberto: Temperatura refrigerada / Стабильность вскрытого флакона: температура охлаждения / Hållbarhet vid öppnad flaska: kyld temperatur / Açılmamış Flakon Stabillitesi: Soğutulmuş Sıcaklık / 已开封药瓶稳定性: 冷藏温度 / 开封後のバイアル安定性: 冷蔵温度

REF

Catalog Number / Katalognummer / Catalogue N° / Numero di catalogo / Número de catálogo / Katalognummer / Katalognummer / Katalognummer / Tuotenumero / Αριθμός καταλόγου / Katalognummer / Numer katalogowy / Referência / Номер по каталогу / Katalognummer / Katalog Numarası / 目录编号 / Каталог番号



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Caution / Vorsicht / Attention / Attenzione / Atención / Forsigtig / Let op / Varoitus / Προσοχή / Advarsel / Przestroga / Cuidado / Осторожно / Viktigt / Dikkat / 注意 / 注意



Consult instructions for use / Gebrauchsanweisung beachten / Se référer au mode d'emploi / Consultare le istruzioni per l'uso / Consultar las instrucciones de uso / Se brugsanvisningen / Raadpleeg de gebruiksaanwijzing / Katso käyttöohjeita / Συμβουλευτείτε τις οδηγίες χρήσης / Se i bruksanvisningen / Sprawdzić w instrukcji użytkowania / Consultar instruções de utilização / Consultar las instrucciones de uso / См. инструкцию по применению / Läs bruksanvisningen / Kullanim talimatlarına danişin / 参阅使用说明 / 取扱説明書を参照

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IVD

For In Vitro Diagnostic Use / In-vitro-Diagnostikum / Diagnostics in vitro / Per uso diagnostico in vitro / Para uso en diagnóstico in vitro / Til in vitro-diagnostisk anvendelse / Voor diagnostisch gebruik in vitro / In Vitro -diagnostiseen käyttöön / Για In Vitro διαγνωστική χρήση / For in vitro-diagnostikk / Do stosowania w diagnostyce in vitro / Para utilização em diagnóstico in vitro / Для использования в диагностике in vitro / För in vitro-diagnostisk användning / In Vitro Diyagnostik Kullanım İçin / 体外诊断用 / 体外診断用



Biological risk / Biogefährdung / Matériel à risque biologique potentiel / Rischio biologico / Material potencialmente peligroso a nivel biológico / Biologisk risiko / Biologisch risiko / Biologinen riski / Βιολογικός κίνδυνος / Biologisk risiko / Zagrożenie biologiczne / Risco biológico / Биологическая опасность / Biologisk risk / Biyolojik risk / 生物风险 / 生物学的リスク

CE 0197

CE Marking of Conformity / CE-Konformitätszeichen / Marquage CE de conformité / Marchio di conformità CE / Marca de conformidad CE / CE-mærkning / CE-conformiteitsmerk / CE-merkintä / Σήμανση συμμόρφωσης CE / CE-samsvarsmerking / Oznakowanie zgodności CE / Marca de Conformidade CE / Маркировка соответствия стандартам CE / CE-försäkran om överensstämmelse / CE Uyumluluk İşareti / CE 合格标志 / 適合の CE マーキング

X̄

Mean Value / Mittelwert / Valeur moyenne / Valore medio / Valor medio / Gennemsnitsværdi / Gemiddelde waarde / Keskiarvo / Μέση τιμή / Middelværdi / Wartość średnia / Valor médio / Среднее значение / Medelvärde / Ortalama Değer / 平均值 / 平均值

<R>

Expected Range / Erwarteter Bereich / Valeur attendue / Intervallo previsto / Intervallo previsto / Forventet område / Verwachte bereik / Odotettu vaihteluväli / Αναμενόμενο εύρος / Forventet område / Zakres wartości oczekiwanych / Intervallo esperado / Ожидаемый интервал / Förväntat intervall / Beklenen Aralık / 预期范围 / 予測範囲

U

Units / Einheiten / Unités / Unità / Unidades / Enheder / Eenheden / Yksiköt / Μονάδες / Enheter / Jednostki / Unidades / Единицы / Enheter / Birimler / 單位 / 單位

CON

Conventional Units / Konventionelle Einheiten / Unités conventionnelles / Unità convenzionali / Unidades convencionales / Konventionelle enheder / Conventionele eenheden / Perinteiset yksiköt / Συμβατικές μονάδες / Konvensjonelle enheter / Jednostki konwencjonalne / Unidades convencionais / Условные единицы / Konventionella enheter / Konvansiyonel Birimler / 常用單位 / 慣用單位

SI

System International Units / SI-Einheiten / Système international d'unités / Unità sistema internazionale / Unidades del sistema internacional / SI-systemet / System International-eeenheden / Kansainväiset yksiköt / Μονάδες διεθνούς συστήματος / SI-enheter / Jednostki w układzie SI / Unidades do Sistema Internacional / Единицы СИ / SI-enheter / Sistem Uluslararası Birimleri / 国际单位 / 國際單位系

U

Constituent and Method / Bestandteil und Methode / Composant et méthode / Componente e metodo / Componente y método / Bestanddel og metode / Bestanddeel en methode / Aineosa ja menetelmä / Συστατικό και μέθοδος / Konstituent og metode / Składnik i metoda / Componentes e método / Компонент и метод / Innehåll och metod / Bileşen ve Yöntem / 成分和方法 / 成分および測定法

If you have any questions concerning this notification, in the USA please contact the Technical Support Department at 800-232-3342 or 510-979-5417. Outside the USA, please contact your local Subsidiary or Distributor.

Falls Sie Fragen zu dieser Benachrichtigung haben, wenden Sie sich in den USA an den technischen Kundendienst unter 800-232-3342 oder 510-979-5417. Außerhalb der USA wenden Sie sich bitte an die Vertriebsniederlassung in Ihrer Nähe oder an einen autorisierten Vertriebspartner.

Aux États-Unis, pour toute question concernant cet avis, contacter le Service d'assistance technique au 800-232-3342 ou au 510-979-5417. En dehors des États-Unis, contacter la filiale locale ou le distributeur local.

Per domanda relativa a questa notifica e vi trovate negli Stati Uniti, rivolgersi al servizio di assistenza tecnica al numero verde 800-232-3342 o al numero 510-979-5417. Al di fuori degli Stati Uniti, rivolgersi alla filiale locale o al distributore.

Para cualquier consulta acerca de esta notificación, en EE.UU. póngase en contacto con el Departamento de Asistencia técnica en los números 800-232-3342 or 510-979-5417. Fuera de EE.UU., póngase en contacto con la subsidiaria o el distribuidor local.

Hvis du har nogle spørgsmål til denne meddelelse, kan du kontakte den tekniske supportafdeling på 800-232-3342 eller 510-979-5417, hvis du befinder dig i USA. Uden for USA kan du kontakte det lokale datterselskab eller distributøren.

Als u vragen hebt over deze kennisgeving, kunt u contact opnemen met de afdeling Technische ondersteuning op 800-232-3342 of 510-979-5417. Buiten de VS kunt u contact opnemen met de vestiging of distributeur in uw land.

Jos sinulla on kysyttävää tästä ilmoituksesta, ota Yhdysvalloissa yhteyttä tekniseen tukeen numeroon 800 232 3342 tai 510 979 5417. Ota Yhdysvaltojen ulkopuolella yhteyttä paikalliseen tytäryhtiöön tai jälleenmyyjään.

Για οποιοδήποτε ερωτήσεις αναφορικά με την παρούσα ειδοποίηση, εντός Η.Π.Α., επικοινωνήστε με το Τμήμα τεχνικής υποστήριξης στον αριθμό 800-232-3342 ή 510-979-5417. Εκτός Η.Π.Α., επικοινωνήστε με την τοπική σας θυγατρική ή τον τοπικό διανομέα.

Dersom du befinner deg i USA og har spørsmål knyttet til denne orienteringen, kontakt avdelingen for teknisk støtte på 800-232-3342 eller 510-979-5417. Dersom du befinner deg utenfor USA, kontakte din lokale forhandler eller distributør.

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Se tiver quaisquer questões relativas a esta notificação, nos EUA por favor contacte o departamento de assistência técnica através do número 800-232-3342 ou 510-979-5417. Fora dos EUA, por favor contacte a filial da sua área ou o distribuidor local.

Если у вас есть вопросы относительно этого уведомления, в США обращайтесь в департамент технической поддержки по телефону 800-232-3342 или 510-979-5417. За пределами США обращайтесь в местную дочернюю компанию или к дистрибьютору.

Om du har några frågor om den här informationen och befinner dig i USA kan du kontakta vår avdelning för teknisk support på telefonnummer +1 800-232-3342 eller +1 510-979-5417. Utanför USA kan du kontakta ditt lokala avdelningskontor eller en distributör.

Bu bildirme dair herhangi bir sorunuz varsa, ABD'de lütfen 800-232-3342 veya 510-979-5417 numaralı Teknik Destek Departmanı ile iletişim kurun. ABD'nin dışında, lütfen yerel Bayi veya Dağıtıcı ile iletişim kurun.

如果您有任何关于此通知的问题，在美国国内，请联系 800-232-3342 或 510-979-5417 技术支持部门。在美国以外地区，请联系您当地的分公司或经销商。

本通知に関するお問い合わせについては、米国内からはお電話にて (800-232-3342 または 510-979-5417) テクニカルサポート部門までお問い合わせください。米国外の場合は、地域の子会社または代理店までお問い合わせください。

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