

LOT TDA23051
TDA23052
TDA23053

 2023-05-31

Thermo
SCIENTIFIC

MAS[®] PAR TDM

LIQUID ASSAYED THERAPEUTIC DRUG CONTROL

IVD

INTENDED USE

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

PRODUCT DESCRIPTION

PAR TDM is prepared from a bovine serum base. Analyte levels are adjusted with various drugs, drug metabolites and purified chemicals. Preservatives and stabilizers are added to maintain product integrity.

CAUTION: PAR TDM is manufactured from bovine serum. 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.

DANGER: PAR TDM control contains ≤31.3% bovine serum.

H317 - May cause allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/ face protection. In case of inadequate ventilation wear respiratory protection. If on skin: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Dispose of contents/container to location in accordance with local/regional/national/international regulations.

STORAGE AND STABILITY

Store **PAR TDM** at 2-8°C. Unopened vials are stable until the expiration date on the label. Once opened, vials of control are stable for 30 days when stored tightly capped at 2-8°C. **Do not freeze.**

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

Thoroughly mix the contents of the vial before each use by gently inverting for several minutes. Open the vial and transfer the required quantity of control into a clean sample cup. Replace the cap immediately and store the opened vial at 2-8°C. Assay controls in accordance with the reagent and/or instrument manufacturer's instructions for unknown specimens.

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 PROCEDURE

Compatibility of **PAR TDM** 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.

The specificity of antibodies used in immunoassay procedures may vary between lots. As with patient specimens, cross-reactivity between certain constituents in these controls may occur with some reagents. Consult reagent manufacturer's operating manual and package insert regarding possible interferences.

Vancomycin values may decrease over the product shelf-life. Laboratory means may fall below published ranges. Contact Microgenics Technical Assistance for current peer group data.

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
PTD1-1001	PAR TDM, Level 1	6 x 5 mL
PTD2-2002	PAR TDM, Level 2	6 x 5 mL
PTD3-3003	PAR TDM, Level 3	6 x 5 mL
286-606	Dropper Tips	Pkg. 100



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ABBOTT AEROSSET / ARCHITECT SYSTEMS															
Acetaminophen	EIA (DRI)	**		**		**		**		**		**		µmol/L	
Acetaminophen	Enzymatic (3R11) Sekisui (506)	23.6	18.9 - 28.3	60.1	48.1 - 72.1	121	96.8 - 145	µg/mL	156	125 - 187	397	318 - 477	800	640 - 961	µmol/L
Amikacin	PETINIA (6L35 w/ 5P04)	**		**		**		µg/mL	**		**		**	µmol/L	
Amikacin	PETINIA (6L35 w/ 6L35-01)	**		**		**		µg/mL	**		**		**	µmol/L	
Carbamazepine	CMIA (1P36)	3.35	2.68 - 4.02	8.21	6.57 - 9.85	>15.0		µg/mL	14.2	11.3 - 17.0	34.7	27.8 - 41.7	>63.5	µmol/L	
Carbamazepine	PETINIA (5P05)	**		**		**		µg/mL	**		**		**	µmol/L	
Digoxin	CMIA (1P32)	0.82	0.66 - 0.98	2.19	1.75 - 2.63	>4.00		ng/mL	1.05	0.85 - 1.26	2.81	2.24 - 3.37	>5.12	nmol/L	
Digoxin	PETINIA (1E06 w/ 5P04)	**		**		**		ng/mL	**		**		**	nmol/L	
Digoxin	PETINIA (1E06 w/ 1E06-02)	**		**		**		ng/mL	**		**		**	nmol/L	
Ethanol	Alcohol Dehydrogenase (3L36)	53.3	42.6 - 64.0	131	105 - 157	256	205 - 308	mg/dL	11.6	9.25 - 13.9	28.4	22.7 - 34.0	55.6	44.5 - 66.8	mmol/L
Gentamicin	CMIA (1P31)	1.60	1.28 - 1.92	4.12	3.30 - 4.94	8.39	6.71 - >10.0	µg/mL	3.35	2.68 - 4.02	8.63	6.91 - 10.3	17.6	14.1 - >20.9	µmol/L
Gentamicin	PETINIA (1E11)	**		**		**		µg/mL	**		**		**	µmol/L	
Lithium	Colorimetric (8L25)	0.52	0.42 - 0.62	1.29	1.03 - 1.55	2.52	2.02 - 3.02	mEq/L	0.52	0.42 - 0.62	1.29	1.03 - 1.55	2.52	2.02 - 3.02	mmol/L
Phenobarbital	CMIA (1P33)	10.5	8.40 - 12.6	26.2	20.9 - 31.4	53.6	42.9 - 64.4	µg/mL	45.2	36.2 - 54.3	113	90.2 - 135	231	185 - 277	µmol/L
Phenobarbital	PETINIA (5P07)	**		**		**		µg/mL	**		**		**	µmol/L	
Phenytoin	CMIA (1P34)	5.93	4.74 - 7.12	14.6	11.7 - 17.5	27.9	21.9 - 33.9	µg/mL	23.5	18.8 - 28.2	57.9	46.3 - 69.5	111	87.0 - 134	µmol/L
Phenytoin	EIA (5P08)	**		**		**		µg/mL	**		**		**	µmol/L	
Quinidine	PETINIA (6I31)	**		**		**		µg/mL	**		**		**	µmol/L	
Salicylate	Enzymatic/ Colorimetric (3K01)	11.1	8.90 - 13.4	29.8	23.8 - 35.7	60.3	48.3 - 72.4	mg/dL	0.81	0.64 - 0.97	2.15	1.72 - 2.58	4.37	3.49 - 5.24	mmol/L
Theophylline	CMIA (1P29)	4.74	3.79 - 5.69	12.0	9.58 - 14.4	24.2	19.0 - 29.3	µg/mL	26.3	21.0 - 31.6	66.5	53.2 - 79.8	134	106 - 163	µmol/L
Theophylline	EIA (5P06)	5.15	4.12 - 6.18	12.5	10.0 - 15.0	26.2	21.0 - 31.5	µg/mL	28.6	22.9 - 34.3	69.5	55.6 - 83.5	146	116 - 175	µmol/L
Thyroid Stimulating Hormone (TSH)															
	CMIA (7K62)	0.79	0.63 - 0.95	1.87	1.50 - 2.24	3.32	2.66 - 3.98	µIU/mL	0.79	0.63 - 0.95	1.87	1.50 - 2.24	3.32	2.66 - 3.98	mIU/L
Thyroxine, Total (T4)	CMIA (7K66)	3.36	2.61 - 4.11	7.38	5.90 - 8.86	11.2	8.94 - 13.4	µg/dL	43.2	33.6 - 52.9	95.0	75.9 - 114	144	115 - 172	nmol/L
Tobramycin	PETINIA (7F93)	0.84	0.60 - 1.08	2.58	2.06 - 3.10	5.14	4.11 - 6.17	µg/mL	1.80	1.28 - 2.31	5.52	4.41 - 6.63	11.0	8.79 - 13.2	µmol/L
Tricyclic Antidepressants***															
	Enzyme Immunoassay (6L28)	144	115 - 172	297	238 - 356	>500		ng/mL	0.55	0.44 - 0.66	1.13	0.90 - 1.35	>1.90	µmol/L	
Triiodothyronine, Total (T3)															
	CMIA (7K64)	**		**		**		ng/mL	**		**		**	nmol/L	
Valproic Acid	CMIA (1P35)	21.7	17.3 - 26.0	54.7	43.8 - 65.7	113	90.3 - 136	µg/mL	150	120 - 180	380	304 - 455	783	626 - 940	µmol/L
Valproic Acid	PETINIA (1E13 w/ 5P04)	**		**		**		µg/mL	**		**		**	µmol/L	
Valproic Acid	PETINIA (1E13 w/ 1E13-02)	**		**		**		µg/mL	**		**		**	µmol/L	
Vancomycin****	CMIA (1P30)	7.65	6.12 - 9.18	43.5	34.8 - >50.0	>50.0		µg/mL	5.28	4.22 - 6.33	30.0	24.0 - >34.5	>34.5	µmol/L	
Vancomycin****	CMIA (1P30) (Non U.S.)	**		**		**		µg/mL	**		**		**	µmol/L	
Vancomycin****	PETINIA (6E44 w/ 5P04)	6.45	5.16 - 7.74	34.9	27.9 - 41.9	71.6	57.3 - 85.9	µg/mL	4.45	3.56 - 5.34	24.1	19.3 - 28.9	49.4	39.5 - 59.3	µmol/L
Vancomycin****	PETINIA (6E44 w/ 6E44-01)	**		**		**		µg/mL	**		**		**	µmol/L	

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ABBOTT ALINITY SYSTEMS															
Carbamazepine	PETINIA (08P58)	2.83	2.26 - 3.40	7.38	5.90 - 8.86	13.4	9.95 - 16.8	µg/mL	12.0	9.56 - 14.4	31.2	25.0 - 37.5	56.6	42.1 - 71.1	µmol/L
Digoxin	PETINIA (08P37)	0.48	0.38 - 0.58	1.58	1.26 - 1.90	3.47	2.78 - 4.16	ng/mL	0.61	0.49 - 0.74	2.02	1.61 - 2.43	4.45	3.56 - 5.33	nmol/L
Ethanol	Alcohol Dehydrogenase (08P41)	55.4	44.3 - 66.4	135	108 - 162	265	212 - 319	mg/dL	12.0	9.62 - 14.4	29.3	23.4 - 35.1	57.6	46.1 - 69.2	mmol/L
Gentamicin	PETINIA (08P55)	1.43	0.86 - 2.00	4.08	3.26 - 4.90	7.88	6.30 - 9.46	µg/mL	2.99	1.80 - 4.19	8.54	6.83 - 10.3	16.5	13.2 - 19.8	µmol/L
Lithium	Colorimetric (08P53)	0.53	0.42 - 0.64	1.33	1.06 - 1.60	2.58	2.06 - 3.10	mEq/L	0.53	0.42 - 0.64	1.33	1.06 - 1.60	2.58	2.06 - 3.10	mmol/L
Phenobarbital	PETINIA (09P85)	9.74	7.79 - 11.7	24.8	19.9 - 29.8	46.1	36.9 - 55.3	µg/mL	41.9	33.5 - 50.3	107	85.6 - 128	199	159 - 238	µmol/L
Phenytoin	EIA (08P54)	6.57	5.26 - 7.88	15.1	12.1 - 18.1	31.3	25.1 - 37.6	µg/mL	26.0	20.9 - 31.2	59.7	47.8 - 71.6	124	99.3 - 149	µmol/L
Salicylate	Enzymatic / Colorimetric (08P59)	11.3	9.06 - 13.6	30.2	24.1 - 36.2	60.9	48.7 - 73.1	mg/dL	0.82	0.66 - 0.98	2.18	1.75 - 2.62	4.41	3.53 - 5.29	mmol/L
Theophylline	EIA (09P89)	4.90	3.92 - 5.88	12.4	9.95 - 14.9	25.7	20.5 - 30.8	µg/mL	27.2	21.8 - 32.6	69.0	55.2 - 82.9	142	114 - 171	µmol/L
Thyroid Stimulating Hormone (TSH)	CMIA (07P48)	0.76	0.61 - 0.91	1.80	1.44 - 2.16	3.19	2.55 - 3.83	µIU/mL	0.76	0.61 - 0.91	1.80	1.44 - 2.16	3.19	2.55 - 3.83	mIU/L
Tobramycin	PETINIA (09P90)	1.02	0.82 - 1.22	2.73	2.18 - 3.28	5.51	4.41 - 6.61	µg/mL	2.18	1.75 - 2.61	5.84	4.66 - 7.02	11.8	9.43 - 14.1	µmol/L
Valproic Acid	PETINIA (09P92)	18.8	15.1 - 22.6	51.6	41.3 - 61.9	111	89.1 - 134	µg/mL	131	104 - 157	358	286 - 429	772	618 - 927	µmol/L
Vancomycin****	PETINIA (08P52)	6.87	5.50 - 8.24	34.6	27.7 - 41.5	63.7	50.9 - 76.4	µg/mL	4.74	3.80 - 5.69	23.9	19.1 - 28.6	43.9	35.2 - 52.7	µmol/L

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BECKMAN COULTER ACCESS / DXI SYSTEMS														
Digoxin Chemiluminescence	**		**		**		ng/mL	**		**		**	nmol/L	
Thyroid Stimulating Hormone (TSH) Chemiluminescence (Fast)	**		**		**		μIU/mL	**		**		**	mIU/L	
Thyroid Stimulating Hormone (TSH) Chemiluminescence (Hyper)	0.74	0.59 - 0.89	1.77	1.42 - 2.12	3.24	2.59 - 3.89	μIU/mL	0.74	0.59 - 0.89	1.77	1.42 - 2.12	3.24	2.59 - 3.89	mIU/L
Thyroid Stimulating Hormone (TSH) Chemiluminescence (3rd IS)	**		**		**		μIU/mL	**		**		**	mIU/L	
Thyroxine, Total (T4) Chemiluminescence	5.44	4.09 - 6.79	12.5	10.0 - 15.1	20.5	16.4 - 24.6	μg/dL	70.0	52.6 - 87.4	161	129 - 194	264	211 - 317	nmol/L
Triiodothyronine, Total (T3) Chemiluminescence	0.91	0.67 - 1.15	2.92	2.29 - 3.55	5.96	4.77 - 7.15	ng/mL	1.40	1.03 - 1.76	4.48	3.51 - 5.45	9.14	7.32 - 11.0	nmol/L



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BECKMAN COULTER AU SERIES															
Acetaminophen	EIA (DRI)	24.9	19.9 - 29.9	58.0	46.4 - 69.6	116	93.0 - 140	µg/mL	165	132 - 198	384	307 - 460	769	615 - 923	µmol/L
Acetaminophen	EMIT toxTM (OSR7A229)	25.4	20.3 - 30.4	58.4	46.7 - 70.1	112	89.5 - 134	µg/mL	168	134 - 201	386	309 - 464	740	592 - 888	µmol/L
Acetaminophen	Enzymatic/ Colorimetric (OSR61202)	**		**		**		µg/mL	**		**		**		µmol/L
Amikacin	QMS	6.03	4.82 - 7.24	15.7	12.5 - 18.8	31.0	24.8 - 37.2	µg/mL	10.3	8.23 - 12.4	26.8	21.4 - 32.1	52.9	42.3 - 63.5	µmol/L
Amikacin	Syva EMIT	6.43	5.14 - 7.72	15.0	12.0 - 18.0	27.5	22.0 - 33.0	µg/mL	11.0	8.78 - 13.2	25.7	20.5 - 30.8	47.0	37.6 - 56.4	µmol/L
Caffeine	Syva EMIT	3.76	2.83 - 4.69	8.87	7.10 - 10.6	17.5	14.0 - 21.0	µg/mL	19.4	14.6 - 24.2	45.7	36.6 - 54.8	90.2	72.2 - 108	µmol/L
Carbamazepine	CEDIA (100006)	4.37	3.50 - 5.24	9.28	7.42 - 11.1	17.2	13.7 - >20.0	µg/mL	18.5	14.8 - 22.2	39.3	31.4 - 47.1	72.7	58.2 - >84.6	µmol/L
Carbamazepine	CEDIA (OSR6414) (non U.S.)	4.50	3.60 - 5.40	9.81	7.85 - 11.8	18.2	14.5 - >20.0	µg/mL	19.0	15.2 - 22.9	41.5	33.2 - 49.8	76.9	61.5 - >84.6	µmol/L
Carbamazepine	EMIT 2000	3.49	2.65 - 4.33	8.56	6.85 - 10.3	16.4	13.1 - 19.7	µg/mL	14.8	11.2 - 18.3	36.2	29.0 - 43.5	69.4	55.5 - 83.2	µmol/L
Digoxin	EMIT 2000	0.68	0.47 - 0.89	1.77	1.42 - 2.12	3.36	2.69 - 4.03	ng/mL	0.87	0.60 - 1.14	2.27	1.82 - 2.72	4.30	3.45 - 5.16	nmol/L
Digoxin	Microparticles (OSR6404)	0.40	0.32 - 0.49	1.51	1.20 - 1.82	3.84	3.07 - 4.61	ng/mL	0.51	0.41 - 0.63	1.93	1.54 - 2.33	4.92	3.93 - 5.91	nmol/L
Digoxin	Microparticles (OSR6404 Germany)	0.28	0.19 - 0.37	1.39	1.11 - 1.67	3.64	2.91 - 4.37	ng/mL	0.36	0.24 - 0.47	1.78	1.42 - 2.14	4.66	3.73 - 5.60	nmol/L
Digoxin	Microparticles (DRI 1669)	0.59	0.47 - 0.71	1.74	1.39 - 2.09	3.69	2.95 - 4.43	ng/mL	0.76	0.60 - 0.91	2.23	1.78 - 2.68	4.73	3.78 - 5.67	nmol/L
Digoxin	Microparticles (DRI 1669-A)	**		**		**		ng/mL	**		**		**		nmol/L
Disopyramide	Syva EMIT	1.16	0.93 - 1.39	2.77	2.22 - 3.32	5.69	4.55 - 6.83	µg/mL	3.42	2.74 - 4.09	8.16	6.54 - 9.78	16.8	13.4 - 20.1	µmol/L
Ethanol	EIA (DRI)	54.0	43.2 - 64.8	130	104 - 156	249	199 - 299	mg/dL	11.7	9.38 - 14.1	28.3	22.6 - 33.9	54.1	43.3 - 65.0	mmol/L
Ethanol	EMIT II Plus	52.8	42.2 - 63.4	134	107 - 161	268	215 - 322	mg/dL	11.5	9.17 - 13.8	29.1	23.3 - 35.0	58.3	46.6 - 69.9	mmol/L
Ethanol	Photometric (DiaSys)	**		**		**		mg/dL	**		**		**		mmol/L
Ethosuximide	Syva EMIT	21.8	15.7 - 27.9	51.9	41.6 - 62.3	103	82.4 - 124	µg/mL	154	111 - 197	368	294 - 442	730	584 - 875	µmol/L
Gentamicin	CEDIA (100016)	1.81	1.45 - 2.17	4.75	3.80 - 5.70	9.34	7.47 - 11.2	µg/mL	3.79	3.04 - 4.54	9.95	7.96 - 11.9	19.6	15.6 - 23.5	µmol/L
Gentamicin	CEDIA (OSR6420) (non U.S.)	1.97	1.58 - 2.36	4.86	3.89 - 5.83	9.48	7.58 - 11.4	µg/mL	4.13	3.31 - 4.94	10.2	8.15 - 12.2	19.9	15.9 - 23.8	µmol/L
Gentamicin	EMIT 2000	1.89	1.51 - 2.27	4.83	3.86 - 5.80	9.63	7.70 - >10.0	µg/mL	4.08	3.26 - 4.90	10.4	8.34 - 12.5	20.8	16.6 - >21.6	µmol/L
Gentamicin	QMS	1.63	1.30 - 1.96	4.22	3.38 - 5.06	8.44	6.75 - >10.0	µg/mL	3.41	2.72 - 4.10	8.84	7.08 - 10.6	17.7	14.1 - >20.9	µmol/L
Lidocaine	Syva EMIT	**		**		**		µg/mL	**		**		**		µmol/L
Lithium	Spectrophotometric (Trace Infinity)	0.55	0.44 - 0.66	1.34	1.07 - 1.61	2.62	2.10 - 3.14	mEq/L	0.55	0.44 - 0.66	1.34	1.07 - 1.61	2.62	2.10 - 3.14	mmol/L
Methotrexate	Syva EMIT	0.36	<0.30 - 0.43	1.22	0.98 - 1.46	7.56	6.05 - 9.07	µmol/L	0.36	<0.30 - 0.43	1.22	0.98 - 1.46	7.56	6.05 - 9.07	µmol/L
N-Acetylprocainamide (NAPA)	CEDIA	**		**		**		µg/mL	**		**		**		µmol/L
N-Acetylprocainamide (NAPA)	EMIT 2000	**		**		**		µg/mL	**		**		**		µmol/L
Phenobarbital	CEDIA (100003)	10.2	8.17 - 12.3	26.2	21.0 - 31.5	53.4	42.7 - 64.1	µg/mL	44.0	35.2 - 52.8	113	90.3 - 135	230	184 - 276	µmol/L
Phenobarbital	CEDIA (OSR6413) (non U.S.)	10.7	8.54 - 12.8	27.5	22.0 - 32.9	56.4	45.1 - 67.6	µg/mL	46.0	36.8 - 55.1	118	94.6 - 142	243	194 - 291	µmol/L
Phenobarbital	EMIT 2000	9.82	7.86 - 11.8	24.1	18.9 - 29.4	48.2	38.3 - 58.0	µg/mL	42.3	33.9 - 50.7	104	81.3 - 126	207	165 - 250	µmol/L
Phenytoin	CEDIA (100002)	7.49	5.99 - 8.99	17.0	13.6 - 20.3	31.6	25.3 - 37.9	µg/mL	29.7	23.7 - 35.6	67.2	53.8 - 80.6	125	100 - 150	µmol/L
Phenytoin	CEDIA (OSR6411) (non U.S.)	7.12	5.70 - 8.54	16.9	13.5 - 20.2	31.4	25.1 - 37.7	µg/mL	28.2	22.6 - 33.9	66.8	53.5 - 80.2	125	99.6 - 149	µmol/L
Phenytoin	EMIT 2000	5.63	4.50 - 6.76	14.1	11.3 - 16.9	27.7	22.2 - 33.2	µg/mL	22.3	17.8 - 26.8	55.9	44.8 - 67.1	110	87.8 - 132	µmol/L
Primidone	Syva EMIT	4.14	3.31 - 4.97	9.72	7.78 - 11.7	18.4	14.7 - >20.0	µg/mL	19.0	15.2 - 22.8	44.5	35.7 - 53.4	84.2	67.4 - >91.6	µmol/L
Procainamide	CEDIA	**		**		**		µg/mL	**		**		**		µmol/L
Procainamide	EMIT 2000	**		**		**		µg/mL	**		**		**		µmol/L
Quinidine	EMIT 2000	**		**		**		µg/mL	**		**		**		µmol/L
Salicylate	Audit Reagent	**		**		**		mg/dL	**		**		**		mmol/L
Salicylate	EIA (DRI)	**		**		**		mg/dL	**		**		**		mmol/L
Salicylate	EMIT TOX	11.8	9.42 - 14.1	28.1	22.5 - 33.7	55.2	44.1 - 66.2	mg/dL	0.85	0.68 - 1.02	2.03	1.63 - 2.44	3.99	3.20 - 4.79	mmol/L
Theophylline	CEDIA (100008)	5.23	4.18 - 6.28	12.6	10.1 - 15.1	24.3	19.4 - 29.1	µg/mL	29.0	23.2 - 34.9	69.8	55.8 - 83.7	135	108 - 162	µmol/L
Theophylline	CEDIA (OSR6412) (non U.S.)	5.13	4.10 - 6.16	12.6	10.1 - 15.1	24.5	19.6 - 29.4	µg/mL	28.5	22.8 - 34.2	69.9	55.9 - 83.9	136	109 - 163	µmol/L
Theophylline	EMIT 2000	5.07	4.06 - 6.08	12.5	10.0 - 15.0	24.8	19.8 - 29.7	µg/mL	28.1	22.5 - 33.7	69.5	55.6 - 83.5	137	110 - 165	µmol/L
Thyroxine, Total (T4)	EIA (DRI)	**		**		**		µg/dL	**		**		**		nmol/L
Tobramycin	CEDIA	2.29	1.83 - 2.75	5.03	4.02 - 6.04	9.33	7.46 - 11.2	µg/mL	4.90	3.91 - 5.88	10.8	8.60 - 12.9	20.0	16.0 - 24.0	µmol/L
Tobramycin	EMIT 2000	1.55	1.24 - 1.86	3.53	2.82 - 4.24	7.20	5.76 - 8.64	µg/mL	3.32	2.65 - 3.98	7.55	6.03 - 9.07	15.4	12.3 - 18.5	µmol/L
Tobramycin	QMS	**		**		**		µg/mL	**		**		**		µmol/L
Tricyclic Antidepressants***	EIA (DRI)	140	112 - 168	556	354 - 757	>1000		ng/mL	0.53	0.42 - 0.64	2.11	1.35 - 2.88	>3.80		µmol/L
Tricyclic Antidepressants***	EMIT TOX	**		**		**		Qual.	**		**		**		Qual.
Valproic Acid	CEDIA (100013)	23.0	18.4 - 27.5	61.9	49.5 - 74.2	124	99.5 - 149	µg/mL	159	127 - 191	429	343 - 515	863	690 - 1035	µmol/L
Valproic Acid	CEDIA (OSR6415) (non U.S.)	23.5	18.8 - 28.2	62.9	50.3 - 75.5	127	102 - >150	µg/mL	163	130 - 195	436	349 - 523	881	705 - >1040	µmol/L
Valproic Acid	EMIT 2000	22.1	17.7 - 26.5	56.2	44.9 - 67.4	109	87.1 - 131	µg/mL	153	122 - 184	389	311 - 467	755	604 - 906	µmol/L
Vancomycin****	EMIT 2000	5.98	4.78 - 7.18	29.8	23.8 - 35.8	>50.0		µg/mL	4.13	3.30 - 4.95	20.6	16.4 - 24.7	>34.5		µmol/L
Vancomycin****	QMS	6.88	5.50 - 8.26	39.6	31.7 - 47.5	87.1	69.7 - >100	µg/mL	4.75	3.80 - 5.70	27.3	21.9 - 32.8	60.1	48.1 - >69.0	µmol/L

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BECKMAN COULTER DxC / SYNCHRON SYSTEMS															
Acetaminophen	PETINIA	26.1	20.8 - 31.3	65.1	52.1 - 78.1	131	105 - 158	µg/mL	172	138 - 207	431	344 - 517	869	696 - 1043	µmol/L
Amikacin	QMS	**		**		**		µg/mL	**		**		**		µmol/L
Carbamazepine	PETINIA	3.30	2.64 - 3.96	8.76	7.01 - 10.5	16.8	13.4 - >20.0	µg/mL	14.0	11.2 - 16.8	37.1	29.7 - 44.5	70.9	56.8 - >84.6	µmol/L
Digoxin	Immunoturbidimetric	0.76	0.61 - 0.91	2.01	1.61 - 2.41	3.84	3.07 - >4.50	ng/mL	0.97	0.78 - 1.17	2.57	2.06 - 3.09	4.92	3.93 - >5.76	nmol/L
Ethanol	Enzymatic UV	54.0	38.5 - 69.5	127	102 - 152	244	195 - 293	mg/dL	11.7	8.36 - 15.1	27.6	22.1 - 33.1	53.0	42.4 - 63.6	mmol/L
Gentamicin	Immunoturbidimetric	2.07	1.66 - 2.48	5.08	4.06 - 6.10	10.6	8.47 - >12.0	µg/mL	4.33	3.48 - 5.19	10.6	8.50 - 12.8	22.2	17.7 - >25.1	µmol/L
Lithium	ISE Indirect	**		**		**		mEq/L	**		**		**		mmol/L
Phenobarbital	PETINIA	9.79	7.83 - 11.8	24.8	19.9 - 29.8	50.2	40.2 - 60.3	µg/mL	42.2	33.7 - 50.6	107	85.5 - 128	216	173 - 259	µmol/L
Phenytoin	PETINIA	5.99	4.79 - 7.19	14.4	11.5 - 17.3	27.4	21.9 - 32.9	µg/mL	23.7	19.0 - 28.5	57.0	45.6 - 68.5	109	86.9 - 130	µmol/L
Salicylate	Enzymatic	11.8	9.46 - 14.2	30.2	24.2 - 36.3	62.1	49.7 - 74.5	mg/dL	0.86	0.68 - 1.03	2.19	1.75 - 2.63	4.50	3.60 - 5.40	mmol/L
Theophylline	PETINIA	4.90	3.92 - 5.88	12.1	9.68 - 14.5	23.7	19.0 - 28.4	µg/mL	27.2	21.8 - 32.6	67.2	53.7 - 80.6	132	105 - 158	µmol/L
Thyroxine, Total (T4)	EIA (DRI)	**		**		**		µg/dL	**		**		**		nmol/L
Tobramycin	PETINIA	**		**		**		µg/mL	**		**		**		µmol/L
Tricyclic Antidepressants***	EIA (DRI)	**		**		**		ng/mL	**		**		**		µmol/L
Valproic Acid	PETINIA	19.4	15.6 - 23.3	51.8	41.5 - 62.2	114	91.2 - 137	µg/mL	135	108 - 162	359	288 - 431	791	632 - 949	µmol/L
Vancomycin****	PETINIA	7.34	5.87 - 8.81	38.9	31.2 - 46.7	>60.0		µg/mL	5.06	4.05 - 6.08	26.9	21.5 - 32.2	>41.4		µmol/L

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HPLC															
Acetaminophen	HPLC	22.3	17.9 - 26.8	56.0	44.8 - 67.2	111	88.7 - 133	µg/mL	148	118 - 177	370	296 - 444	733	587 - 880	µmol/L
Caffeine	HPLC	3.42	2.73 - 4.11	8.48	6.78 - 10.2	17.1	13.7 - 20.5	µg/mL	17.6	14.1 - 21.2	43.7	34.9 - 52.4	87.9	70.3 - 105	µmol/L

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ORTHO-CLINICAL VITROS CHEMISTRY SYSTEMS															
Acetaminophen	Enzymatic/ Colorimetric (ACET)	31.8	25.4 - 38.2	77.7	62.2 - 93.2	143	114 - 171	μg/mL	210	168 - 252	514	411 - 617	943	754 - 1131	μmol/L
Carbamazepine	EIA (CRBM)	**		**		**		μg/mL	**		**		**		μmol/L
Digoxin	EIA (DGXN)	0.94	0.75 - 1.13	1.95	1.56 - 2.34	3.44	2.75 - >4.00	ng/mL	1.20	0.96 - 1.45	2.50	2.00 - 3.00	4.41	3.52 - >5.12	nmol/L
Ethanol	ADH (ALC)	43.3	34.6 - 52.0	106	84.6 - 127	204	146 - 262	mg/dL	9.40	7.52 - 11.3	23.0	18.4 - 27.5	44.3	31.7 - 56.9	mmol/L
Lithium	Colorimetric (Li)	0.45	0.30 - 0.60	1.49	1.19 - 1.79	3.14	2.51 - 3.77	mEq/L	0.45	0.30 - 0.60	1.49	1.19 - 1.79	3.14	2.51 - 3.77	mmol/L
Phenytoin	EIA (PHYT)	8.37	6.70 - 10.0	21.8	17.4 - 26.1	35.7	28.5 - >40.0	μg/mL	33.2	26.6 - 39.8	86.2	69.0 - 103	141	113 - >159	μmol/L
Salicylate	Salicylate Hydroxylase (SALI)	14.3	11.4 - 17.1	25.4	20.3 - 30.4	39.5	31.6 - >40.0	mg/dL	1.03	0.83 - 1.24	1.84	1.47 - 2.20	2.86	2.29 - >2.90	mmol/L
Theophylline	Enzymatic PNPP (THEO)	12.1	9.21 - 15.0	25.5	20.4 - 30.6	38.8	31.0 - >40.0	μg/mL	67.3	51.1 - 83.4	142	113 - 170	215	172 - >222	μmol/L
Valproic Acid	EIA (VALP)	15.6	12.5 - 18.7	46.9	37.5 - 56.3	101	80.5 - 121	μg/mL	108	86.6 - 130	325	260 - 390	698	558 - 837	μmol/L
Vancomycin ****	EIA (VANC)	6.03	<5.00 - 7.24	29.3	23.4 - 35.1	>50.0		μg/mL	4.16	<3.45 - 5.00	20.2	16.2 - 24.2	>34.5		μmol/L

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ORTHO-CLINICAL VITROS IMMUNOASSAY SYSTEMS															
Thyroid Stimulating Hormone (TSH)															
	Chemiluminescence	1.14	0.91 - 1.37	2.78	2.22 - 3.34	5.14	4.11 - 6.17	μIU/mL	1.14	0.91 - 1.37	2.78	2.22 - 3.34	5.14	4.11 - 6.17	mIU/L
Thyroxine, Total (T4)	Chemiluminescence	5.50	4.40 - 6.60	14.8	11.8 - 17.8	24.8	19.8 - >24.9	μg/dL	70.8	56.6 - 84.9	190	152 - 229	319	255 - >320	nmol/L
Triiodothyronine, Total (T3)	Chemiluminescence	**		**		**		ng/mL	**		**		**		nmol/L

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ROCHE COBAS C SYSTEMS														
Acetaminophen	Enzymatic/ Colorimetric (ACETA)	**		**		**		**		**		**		µmol/L
Acetaminophen	EIA (ACET2)	24.0	19.2 - 28.8	54.3	43.4 - 65.1	98.8	79.1 - 119	159	127 - 191	359	287 - 431	654	523 - 785	µmol/L
Amikacin	KIMS	5.66	4.53 - 6.79	14.4	11.5 - 17.3	29.4	23.5 - 35.3	9.67	7.74 - 11.6	24.6	19.7 - 29.5	50.2	40.2 - 60.2	µmol/L
Carbamazepine	CEDIA (CARB3)	**		**		**		**		**		**		µmol/L
Carbamazepine	KIMS (CARB4)	3.11	2.49 - 3.73	8.41	6.73 - 10.1	16.6	13.3 - 19.9	13.2	10.5 - 15.8	35.6	28.5 - 42.7	70.1	56.1 - 84.1	µmol/L
Digoxin	KIMS	0.59	<0.30 - 0.92	1.68	1.34 - 2.02	3.67	2.94 - 4.40	0.76	<0.38 - 1.18	2.15	1.72 - 2.59	4.70	3.77 - 5.64	nmol/L
Ethanol	Enzymatic	54.3	43.4 - 65.2	135	108 - 162	267	213 - 320	11.8	9.43 - 14.1	29.2	23.4 - 35.1	57.9	46.4 - 69.5	mmol/L
Gentamicin	KIMS (GENT2)	1.39	1.09 - 1.69	3.44	2.75 - 4.13	6.28	5.02 - 7.54	2.91	2.28 - 3.53	7.19	5.75 - 8.63	13.1	10.5 - 15.8	µmol/L
Gentamicin	QMS	1.50	0.99 - 2.01	4.09	3.27 - 4.91	8.14	6.51 - 9.77	3.14	2.07 - 4.20	8.55	6.83 - 10.3	17.0	13.6 - 20.4	µmol/L
Lithium	Colorimetric	0.54	0.42 - 0.66	1.36	1.09 - 1.63	2.62	2.10 - >3.00	0.54	0.42 - 0.66	1.36	1.09 - 1.63	2.62	2.10 - >3.00	mmol/L
N-Acetylprocainamide (NAPA)	KIMS	**		**		**		**		**		**		µmol/L
Phenobarbital	KIMS	9.57	7.23 - 11.9	25.0	20.0 - 29.9	49.4	39.5 - 59.3	41.2	31.1 - 51.3	107	86.0 - 129	213	170 - 255	µmol/L
Phenytoin	KIMS	5.20	4.03 - 6.37	13.6	10.8 - 16.3	26.8	21.5 - 32.2	20.6	16.0 - 25.3	53.7	43.0 - 64.5	106	85.1 - 128	µmol/L
Procainamide	EIA	**		**		**		**		**		**		µmol/L
Quinidine	KIMS	**		**		**		**		**		**		µmol/L
Salicylate	Enzymatic	10.5	8.39 - 12.6	28.5	22.8 - 34.2	59.4	47.5 - >70.0	0.76	0.60 - 0.91	2.05	1.64 - 2.46	4.28	3.42 - >5.04	nmol/L
Theophylline	KIMS	4.91	3.93 - 5.89	12.2	9.79 - 14.7	24.8	19.8 - 29.7	27.3	21.8 - 32.7	67.9	54.3 - 81.5	137	110 - 165	µmol/L
Tobramycin	EIA	1.51	1.21 - 1.81	3.44	2.75 - 4.13	7.16	5.73 - 8.59	3.23	2.59 - 3.87	7.36	5.88 - 8.83	15.3	12.3 - 18.4	µmol/L
Valproic Acid	EIA	18.8	13.7 - 23.9	51.9	41.5 - 62.2	103	82.1 - 123	131	95.3 - 166	360	288 - 432	712	569 - 854	µmol/L
Vancomycin****	KIMS (VANC3)	7.29	4.68 - 9.90	34.2	27.4 - 41.0	73.5	57.9 - >80.0	5.03	3.23 - 6.83	23.6	18.9 - 28.3	50.7	40.0 - >55.2	µmol/L

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ROCHE COBAS E / ELECSYS / E170 SYSTEMS																
Digoxin ECLIA	0.90	0.72 - 1.08	2.37	1.90 - 2.84	4.82	3.86 - >5.00	ng/mL	1.15	0.92 - 1.38	3.04	2.43 - 3.64	6.17	4.94 - >6.41	nmol/L		
Thyroid Stimulating Hormone (TSH) ECLIA	0.88	0.67 - 1.09	2.11	1.63 - 2.59	4.01	3.14 - 4.88	μIU/mL	0.88	0.67 - 1.09	2.11	1.63 - 2.59	4.01	3.14 - 4.88	mIU/L		
Thyroxine, Total (T4) ECLIA	3.99	3.18 - 4.80	8.84	7.07 - 10.6	14.1	11.3 - 17.0	μg/dL	51.4	40.9 - 61.8	114	91.0 - 137	182	146 - 218	nmol/L		
Triiodothyronine, Total (T3) ECLIA	1.59	1.27 - 1.91	3.85	2.98 - 4.72	>6.51		ng/mL	2.44	1.95 - 2.93	5.91	4.57 - 7.24	>9.99		nmol/L		




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ROCHE HITACHI / MODULAR SYSTEMS														
Acetaminophen	EIA (DRI)	**		**		**		**		**		**		µmol/L
Acetaminophen	Enzymatic, Colorimetric	**		**		**		**		**		**		µmol/L
Amikacin	KIMS	**		**		**		**		**		**		µmol/L
Amikacin	QMS	**		**		**		**		**		**		µmol/L
Carbamazepine	CEDIA	**		**		**		**		**		**		µmol/L
Digoxin	Microparticles (DRI)	**		**		**		**		**		**		nmol/L
Digoxin	Immunoturbidimetric (Tina-quant)	**		**		**		**		**		**		nmol/L
Ethanol	ADH (DRI)	**		**		**		**		**		**		mmol/L
Ethanol	Enzymatic	**		**		**		**		**		**		mmol/L
Gentamicin	CEDIA	**		**		**		**		**		**		µmol/L
Gentamicin	Microparticles (QMS)	**		**		**		**		**		**		µmol/L
Lidocaine	Roche Online TDM	**		**		**		**		**		**		µmol/L
Lidocaine	QMS	3.00	2.40 - 3.60	5.11	4.09 - 6.13	9.38	7.50 - >10.0	12.8	10.2 - 15.4	21.8	17.5 - 26.2	40.0	32.0 - >42.7	µmol/L
Lithium	Colorimetric	**		**		**		**		**		**		mmol/L
N-Acetylprocainamide	(NAPA)													
	CEDIA	**		**		**		**		**		**		µmol/L
Phenobarbital	CEDIA	**		**		**		**		**		**		µmol/L
Phenobarbital	KIMS	**		**		**		**		**		**		µmol/L
Phenytoin	CEDIA	**		**		**		**		**		**		µmol/L
Phenytoin	KIMS	**		**		**		**		**		**		µmol/L
Procainamide	CEDIA	**		**		**		**		**		**		µmol/L
Quinidine	KIMS	**		**		**		**		**		**		µmol/L
Quinidine	QMS	1.19	0.95 - 1.43	3.01	2.41 - 3.61	6.25	5.00 - 7.50	3.67	2.93 - 4.41	9.28	7.43 - 11.1	19.3	15.4 - 23.1	µmol/L
Salicylate	Colorimetric (Roche)	**		**		**		**		**		**		mmol/L
Salicylate	Ferric Nitrate (DRI)	**		**		**		**		**		**		mmol/L
Theophylline	CEDIA	**		**		**		**		**		**		µmol/L
Theophylline	KIMS	**		**		**		**		**		**		µmol/L
Thyroxine, Total (T4)	EIA (DRI)	**		**		**		**		**		**		nmol/L
Tobramycin	CEDIA	**		**		**		**		**		**		µmol/L
Tricyclic Antidepressants***	EIA (DRI) (Int. Parameters)	**		**		**		**		**		**		µmol/L
Tricyclic Antidepressants***	EIA (DRI) (U.S. Parameters)	**		**		**		**		**		**		µmol/L
Valproic Acid	CEDIA	**		**		**		**		**		**		nmol/L
Valproic Acid	EIA	**		**		**		**		**		**		µmol/L
Vancomycin****	EIA	**		**		**		**		**		**		µmol/L
Vancomycin****	QMS	7.38	5.90 - 8.86	37.6	26.1 - 49.2	81.0	58.2 - >100	5.09	4.07 - 6.11	26.0	18.0 - 34.0	55.9	40.2 - >69.0	µmol/L

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ROCHE INTEGRA														
Acetaminophen	Enzymatic/ Colorimetric	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Amikacin	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Carbamazepine	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Digoxin	KIMS	**	**	**	**	**	**	**	**	**	**	**	**	nmol/L
Ethanol	Enzymatic UV	**	**	**	**	**	**	**	**	**	**	**	**	mmol/L
Gentamicin	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Lidocaine	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Lithium	Indirect ISE	**	**	**	**	**	**	**	**	**	**	**	**	mmol/L
N-Acetylprocainamide (NAPA)														
	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Phenobarbital	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Phenytoin	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Primidone	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Procainamide	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Quinidine	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Salicylate	Enzymatic	**	**	**	**	**	**	**	**	**	**	**	**	mmol/L
Theophylline	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Tobramycin	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Valproic Acid	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L
Vancomycin****	Fluorescence Polarization	**	**	**	**	**	**	**	**	**	**	**	**	µmol/L

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SIEMENS ADVIA CENTAUR SYSTEMS															
Carbamazepine	Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Digoxin	Chemiluminescence	1.03	0.82 - 1.24	2.33	1.86 - 2.80	4.29	3.43 - >5.00	ng/mL	1.32	1.05 - 1.59	2.98	2.38 - 3.59	5.50	4.39 - >6.41	nmol/L
Gentamicin	Chemiluminescence	1.70	1.36 - 2.04	4.42	3.54 - 5.30	9.84	7.87 - 11.8	µg/mL	3.56	2.85 - 4.27	9.26	7.41 - 11.1	20.6	16.5 - 24.7	µmol/L
Phenobarbital	Chemiluminescence	15.0	9.51 - 20.5	35.5	23.1 - 47.9	63.5	42.6 - >80.0	µg/mL	64.6	41.0 - 88.2	153	99.6 - 206	273	183 - >344	µmol/L
Phenytoin	Chemiluminescence	6.60	4.08 - 9.12	18.0	13.3 - 22.7	36.4	29.1 - >40.0	µg/mL	26.2	16.2 - 36.2	71.4	52.8 - 89.9	144	115 - >159	µmol/L
Theophylline	Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Thyroid Stimulating Hormone (TSH)	Chemiluminescence	**		**		**		µIU/mL	**		**		**		mIU/L
Thyroid Stimulating Hormone (TSH)	Chemiluminescence (TSH3-UL)	**		**		**		µIU/mL	**		**		**		mIU/L
Thyroxine, Total (T4)	Chemiluminescence	**		**		**		µg/dL	**		**		**		nmol/L
Tobramycin	Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Triiodothyronine, Total (T3)	Chemiluminescence	**		**		**		ng/mL	**		**		**		nmol/L
Valproic Acid	Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L
Vancomycin****	Chemiluminescence	**		**		**		µg/mL	**		**		**		µmol/L

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SIEMENS ADVIA CHEMISTRY SYSTEMS														
Acetaminophen	Enzymatic/ Colorimetric	**		**		**		µg/mL	**		**		**	µmol/L
Carbamazepine	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Carbamazepine	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Digoxin	Immunoturbidimetric	**		**		**		ng/mL	**		**		**	nmol/L
Ethanol	Enzymatic	**		**		**		mg/dL	**		**		**	mmol/L
Lithium	Colorimetric	**		**		**		mEq/L	**		**		**	mmol/L
Phenobarbital	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Phenobarbital	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Phenytoin	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Phenytoin	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Theophylline	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Theophylline	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Tobramycin	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Tobramycin	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Valproic Acid	EMIT	**		**		**		µg/mL	**		**		**	µmol/L
Vancomycin****	Immunoturbidimetric	**		**		**		µg/mL	**		**		**	µmol/L
Vancomycin****	EMIT	**		**		**		µg/mL	**		**		**	µmol/L

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SIEMENS ATELICA SYSTEMS															
Acetaminophen	Enzymatic/ Colorimetric (Acet)	23.7	19.0 - 28.5	59.4	47.5 - 71.3	117	93.7 - 140	µg/mL	157	126 - 188	393	314 - 472	774	620 - 929	µmol/L
Carbamazepine	PETINIA (Carb)	3.22	2.58 - 3.86	7.87	6.30 - 9.44	15.8	12.6 - 18.9	µg/mL	13.6	10.9 - 16.3	33.3	26.7 - 40.0	66.7	53.3 - 80.0	µmol/L
Digoxin	Latex-enhanced Immunoturbidimetric (Dgn)	1.01	0.81 - 1.21	2.18	1.74 - 2.62	4.61	3.69 - >5.00	ng/mL	1.29	1.04 - 1.55	2.79	2.23 - 3.36	5.91	4.73 - >6.41	nmol/L
Ethanol	Enzymatic (ETOH)	58.3	45.8 - 70.7	138	111 - 166	273	218 - >300	mg/dL	12.7	9.95 - 15.4	30.1	24.0 - 36.1	59.3	47.4 - >65.1	mmol/L
Gentamicin	PETINIA (Gent)	1.51	1.06 - 1.96	4.08	3.26 - 4.90	8.50	6.80 - 10.2	µg/mL	3.16	2.22 - 4.10	8.54	6.83 - 10.3	17.8	14.2 - 21.4	µmol/L
Phenobarbital	PETINIA (Phnb)	9.78	7.82 - 11.7	25.2	20.2 - 30.3	50.6	40.5 - 60.8	µg/mL	42.1	33.7 - 50.6	109	86.9 - 130	218	174 - 262	µmol/L
Phenytoin	PETINIA (Phny)	5.33	4.25 - 6.41	14.2	11.3 - 17.0	29.9	23.9 - 35.8	µg/mL	21.1	16.9 - 25.4	56.2	45.0 - 67.4	118	94.7 - 142	µmol/L
Theophylline	PETINIA (Theo)	4.64	3.71 - 5.57	11.5	9.22 - 13.8	23.2	18.6 - 27.9	µg/mL	25.8	20.6 - 30.9	63.9	51.2 - 76.7	129	103 - 155	µmol/L
Thyroid Stimulating Hormone (TSH)	Chemiluminescence (TSH3-UL/ TSH3UL)	0.87	0.65 - 1.09	2.01	1.47 - 2.55	3.79	2.73 - 4.85	µIU/mL	0.87	0.65 - 1.09	2.01	1.47 - 2.55	3.79	2.73 - 4.85	mIU/L
Thyroxine, Total (T4)	Chemiluminescence	4.20	3.36 - 5.04	9.10	7.28 - 10.9	14.4	11.5 - 17.2	µg/dL	54.1	43.2 - 64.9	117	93.7 - 141	185	148 - 222	nmol/L
Tobramycin	PETINIA (Tob)	1.26	1.01 - 1.51	3.16	2.53 - 3.79	6.55	5.24 - 7.86	µg/mL	2.70	2.16 - 3.23	6.76	5.41 - 8.11	14.0	11.2 - 16.8	µmol/L
Triiodothyronine, Total (T3)	Chemiluminescence	1.04	0.80 - 1.28	2.78	2.09 - 3.47	4.79	3.29 - 6.29	ng/mL	1.60	1.23 - 1.96	4.26	3.21 - 5.32	7.35	5.05 - 9.65	nmol/L
Valproic Acid	PETINIA (VPA)	22.9	18.3 - 27.5	57.6	46.0 - 69.1	111	88.9 - 133	µg/mL	159	127 - 190	399	319 - 479	770	616 - 924	µmol/L
Vancomycin ****	PETINIA (Vanc)	7.07	5.66 - 8.48	34.3	27.4 - 41.1	>50.0		µg/mL	4.88	3.91 - 5.85	23.7	18.9 - 28.4	>34.5		µmol/L

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SIEMENS DIMENSION SYSTEMS															
Acetaminophen	Enzymatic/ Colorimetric (ACTM)	39.2	31.4 - 47.0	72.2	57.8 - 86.7	130	104 - 156	µg/mL	259	207 - 311	478	382 - 573	862	689 - 1034	µmol/L
Carbamazepine	PETINIA (CRBM)	3.22	2.58 - 3.86	8.30	6.64 - 9.96	16.5	13.2 - 19.9	µg/mL	13.6	10.9 - 16.3	35.1	28.1 - 42.2	70.0	56.0 - 84.0	µmol/L
Digoxin	Magnetic Particle (DGNA)	0.93	0.74 - 1.12	2.18	1.74 - 2.62	4.13	3.30 - 4.96	ng/mL	1.19	0.95 - 1.43	2.79	2.23 - 3.36	5.29	4.23 - 6.35	nmol/L
Ethanol	ADH (ETOH)	48.2	36.2 - 60.2	119	89.6 - 149	237	176 - 297	mg/dL	10.5	7.85 - 13.1	25.9	19.4 - 32.3	51.3	38.2 - 64.5	mmol/L
Gentamicin	PETINIA (GENT)	1.61	1.16 - 2.06	4.28	3.42 - 5.14	8.75	7.00 - 10.5	µg/mL	3.37	2.43 - 4.31	8.96	7.16 - 10.8	18.3	14.7 - 22.0	µmol/L
Lidocaine	PETINIA (LIDO)	**		**		**		µg/mL	**		**		**		µmol/L
Lithium	Colorimetric (LI)	0.13	<0.10 - 0.19	1.08	0.86 - 1.30	2.63	2.10 - 3.16	mEq/L	0.13	<0.10 - 0.19	1.08	0.86 - 1.30	2.63	2.10 - 3.16	mmol/L
Methotrexate	Syva EMIT	0.32	<0.30 - 0.38	1.02	0.69 - 1.35	7.76	6.17 - 9.35	µmol/L	0.32	<0.30 - 0.38	1.02	0.69 - 1.35	7.76	6.17 - 9.35	µmol/L
N-Acetylprocainamide (NAPA)	PETINIA	**		**		**		µg/mL	**		**		**		µmol/L
Phenobarbital	PETINIA (PHNO)	10.1	8.10 - 12.1	25.6	20.4 - 30.7	51.1	40.8 - 61.3	µg/mL	43.6	34.9 - 52.3	110	88.0 - 132	220	176 - 264	µmol/L
Phenytoin	PETINIA (PTN)	5.56	4.45 - 6.67	14.7	11.7 - 17.6	30.2	24.2 - 36.3	µg/mL	22.0	17.6 - 26.4	58.2	46.5 - 69.9	120	95.9 - 144	µmol/L
Procainamide	PETINIA (PROC)	**		**		**		µg/mL	**		**		**		µmol/L
Salicylate	Colorimetric (SAL)	11.6	9.25 - 13.9	28.9	23.1 - 34.7	57.9	46.3 - 69.4	mg/dL	0.84	0.67 - 1.00	2.09	1.67 - 2.51	4.19	3.35 - 5.03	mmol/L
Theophylline	PETINIA (THEO)	4.62	3.70 - 5.54	11.7	9.35 - 14.0	23.0	18.4 - 27.5	µg/mL	25.6	20.5 - 30.8	64.9	51.9 - 77.9	127	102 - 153	µmol/L
Thyroid Stimulating Hormone (TSH)	EIA	0.85	0.68 - 1.02	1.94	1.55 - 2.33	3.65	2.92 - 4.38	µIU/mL	0.85	0.68 - 1.02	1.94	1.55 - 2.33	3.65	2.92 - 4.38	mIU/L
Thyroid Stimulating Hormone (TSH)	LOCITM (TSHL)	0.74	0.59 - 0.89	1.77	1.42 - 2.12	3.38	2.70 - 4.06	µIU/mL	0.74	0.59 - 0.89	1.77	1.42 - 2.12	3.38	2.70 - 4.06	mIU/L
Thyroxine, Total (T4)	EIA	3.47	2.78 - 4.16	8.41	6.73 - 10.1	14.3	11.4 - 17.1	µg/dL	44.7	35.8 - 53.5	108	86.6 - 130	184	147 - 220	nmol/L
Tobramycin	PETINIA (TOBR)	1.10	0.74 - 1.46	3.04	2.43 - 3.65	6.24	4.99 - 7.49	µg/mL	2.35	1.58 - 3.12	6.50	5.20 - 7.81	13.4	10.7 - 16.0	µmol/L
Valproic Acid	PETINIA (VALP)	23.1	18.2 - 28.0	59.2	47.3 - 71.0	116	93.1 - 140	µg/mL	160	126 - 194	410	328 - 492	807	646 - 968	µmol/L
Vancomycin ****	PETINIA (VANC)	7.79	6.23 - 9.35	35.9	28.7 - 43.1	>50.0		µg/mL	5.38	4.30 - 6.45	24.8	19.8 - 29.7	>34.5		µmol/L

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SIEMENS DIMENSION VISTA															
Acetaminophen	Enzymatic/ Colorimetric (ACTM)	39.8	31.8 - 47.7	73.5	58.8 - 88.2	133	106 - 160	μg/mL	263	210 - 316	486	389 - 584	880	704 - 1056	μmol/L
Carbamazepine	PETINIA (CRBM)	3.32	2.66 - 3.98	8.51	6.81 - 10.2	17.1	13.7 - >20.0	μg/mL	14.1	11.3 - 16.8	36.0	28.8 - 43.2	72.3	57.8 - >84.6	μmol/L
Digoxin	LOCITM (DIGXN)	0.79	0.63 - 0.95	2.07	1.66 - 2.48	4.26	3.41 - >5.00	ng/mL	1.01	0.81 - 1.22	2.65	2.13 - 3.18	5.46	4.37 - >6.41	nmol/L
Ethanol	ADH/UV (ETOH)	49.1	35.2 - 62.9	122	83.3 - 160	242	166 - >300	mg/dL	10.7	7.63 - 13.7	26.4	18.1 - 34.8	52.4	36.0 - >65.1	mmol/L
Gentamicin	PETINIA (GENT)	1.53	1.05 - 2.01	4.21	3.37 - 5.05	8.56	6.85 - 10.3	μg/mL	3.20	2.20 - 4.21	8.82	7.06 - 10.6	17.9	14.3 - 21.5	μmol/L
Lidocaine	PETINIA (LIDO)	**		**		**		μg/mL	**		**		**		μmol/L
Lithium	Colorimetric (LI)	**		**		**		mEq/L	**		**		**		mmol/L
Lithium	Colorimetric (LITH)	0.54	0.43 - 0.65	1.33	1.06 - 1.60	2.62	2.10 - >3.00	mEq/L	0.54	0.43 - 0.65	1.33	1.06 - 1.60	2.62	2.10 - >3.00	mmol/L
N-Acetylprocainamide (NAPA)	PETINIA	**		**		**		μg/mL	**		**		**		μmol/L
Phenobarbital	PETINIA (PHNO)	8.71	5.77 - 11.7	25.1	20.1 - 30.1	47.7	38.2 - 57.3	μg/mL	37.5	24.9 - 50.2	108	86.4 - 130	205	164 - 247	μmol/L
Phenytoin	PETINIA (PTN)	5.42	4.28 - 6.56	13.8	10.6 - 17.0	29.2	23.3 - 35.0	μg/mL	21.5	17.0 - 26.0	54.7	41.9 - 67.4	116	92.5 - 139	μmol/L
Procainamide	PETINIA (PROC)	**		**		**		μg/mL	**		**		**		μmol/L
Salicylate	Colorimetric (SAL)	11.4	9.15 - 13.7	29.3	23.4 - 35.1	58.4	46.7 - 70.1	mg/dL	0.83	0.66 - 0.99	2.12	1.70 - 2.54	4.23	3.38 - 5.07	mmol/L
Theophylline	PETINIA (THEO)	4.97	3.98 - 5.96	12.6	10.0 - 15.1	25.9	20.7 - 31.1	μg/mL	27.6	22.1 - 33.1	69.7	55.7 - 83.6	144	115 - 172	μmol/L
Thyroid Stimulating Hormone (TSH)	LOCITM	0.75	0.60 - 0.90	1.83	1.46 - 2.20	3.58	2.86 - 4.30	μIU/mL	0.75	0.60 - 0.90	1.83	1.46 - 2.20	3.58	2.86 - 4.30	mIU/L
Thyroxine, Total (T4)	EIA	**		**		**		μg/dL	**		**		**		nmol/L
Tobramycin	PETINIA (TOBR)	1.13	0.71 - 1.55	2.99	2.36 - 3.62	6.55	5.24 - 7.86	μg/mL	2.42	1.52 - 3.32	6.40	5.05 - 7.74	14.0	11.2 - 16.8	μmol/L
Valproic Acid	PETINIA (VALP)	25.0	16.5 - 33.5	62.0	49.6 - 74.4	117	93.3 - 140	μg/mL	173	114 - 232	430	344 - 516	808	647 - 970	μmol/L
Vancomycin ****	PETINIA (VANC)	7.00	5.60 - 8.40	34.7	27.7 - 41.6	>50.0		μg/mL	4.83	3.86 - 5.80	23.9	19.1 - 28.7	>34.5		μmol/L

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SIEMENS IMMULITE SERIES														
Carbamazepine	Chemiluminescence	**		**		**		**		**		**		µmol/L
Digoxin	Chemiluminescence	**		**		**		**		**		**		nmol/L
Phenobarbital	Chemiluminescence	**		**		**		**		**		**		µmol/L
Phenytoin	Chemiluminescence	**		**		**		**		**		**		µmol/L
Theophylline	Chemiluminescence	**		**		**		**		**		**		µmol/L
Thyroid Stimulating Hormone (TSH)	Chemiluminescence	**		**		**		**		**		**		mIU/L
Thyroxine, Total (T4)	Chemiluminescence	**		**		**		**		**		**		nmol/L
Triiodothyronine, Total (T3)	Chemiluminescence	**		**		**		**		**		**		nmol/L
Valproic Acid	Chemiluminescence	**		**		**		**		**		**		µmol/L

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THERMO FISHER SCIENTIFIC MGC240																			
Carbamazepine	CEDIA	4.42	3.54 - 5.30	10.2	8.12 - 12.2	18.5	14.8 - >20.0	µg/mL	18.7	15.0 - 22.4	43.0	34.4 - 51.6	78.3	62.6 - >84.6	µmol/L				
Gentamicin	CEDIA	1.91	1.53 - 2.29	4.86	3.89 - 5.83	9.37	7.50 - 11.2	µg/mL	4.00	3.20 - 4.80	10.2	8.15 - 12.2	19.6	15.7 - 23.5	µmol/L				
Phenobarbital	CEDIA	11.4	8.99 - 13.7	29.3	23.4 - 35.2	57.7	46.1 - 69.2	µg/mL	48.9	38.7 - 59.1	126	101 - 151	248	199 - 298	µmol/L				
Phenytoin	CEDIA	7.54	6.03 - 9.05	17.7	14.1 - 21.2	33.1	26.5 - 39.8	µg/mL	29.9	23.9 - 35.9	70.1	56.1 - 84.1	131	105 - 158	µmol/L				
Theophylline	CEDIA	5.78	4.62 - 6.94	13.9	11.2 - 16.7	27.0	21.6 - 32.4	µg/mL	32.1	25.6 - 38.5	77.4	61.9 - 92.9	150	120 - 180	µmol/L				
Valproic Acid	CEDIA	24.8	19.8 - 29.7	67.3	53.8 - 80.8	129	103 - >150	µg/mL	172	137 - 206	467	373 - 560	892	714 - >1040	µmol/L				

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THERMO FISHER SCIENTIFIC INDIKO BASIC															
Acetaminophen	EIA (DRI)	22.8	18.2 - 27.4	61.5	46.6 - 76.4	120	95.9 - 144	µg/mL	151	121 - 181	407	308 - 505	793	635 - 952	µmol/L
Amikacin	QMS	6.24	2.49 - 9.99	21.0	16.8 - 25.2	38.5	30.8 - 46.2	µg/mL	10.7	4.25 - 17.1	35.8	28.6 - 43.0	65.8	52.6 - 78.9	µmol/L
Carbamazepine	CEDIA	4.87	3.90 - 5.84	10.0	8.01 - 12.0	17.9	14.3 - >20.0	µg/mL	20.6	16.5 - 24.7	42.4	33.9 - 50.8	75.6	60.5 - >84.6	µmol/L
Ethanol	EIA (DRI)	56.1	44.9 - 67.4	130	104 - 156	246	197 - 295	mg/dL	12.2	9.75 - 14.6	28.3	22.6 - 34.0	53.5	42.8 - 64.1	mmol/L
Gentamicin	QMS	1.46	0.68 - 2.24	4.63	2.47 - 6.79	9.78	7.82 - >10.0	µg/mL	3.06	1.42 - 4.69	9.70	5.17 - 14.2	20.5	16.4 - >20.9	µmol/L
Lithium	Colorimetric (TRACE Infinity)	0.56	0.45 - 0.67	1.28	1.02 - 1.54	2.49	1.99 - 2.99	mEq/L	0.56	0.45 - 0.67	1.28	1.02 - 1.54	2.49	1.99 - 2.99	mEq/L
Phenytoin	CEDIA	6.86	5.49 - 8.23	17.2	13.8 - 20.6	30.7	24.5 - 36.8	µg/mL	27.2	21.8 - 32.6	68.2	54.5 - 81.8	122	97.2 - 146	µmol/L
Theophylline	CEDIA	5.28	3.96 - 6.60	13.0	10.4 - 15.7	24.5	19.6 - 29.4	µg/mL	29.3	22.0 - 36.6	72.4	57.9 - 86.9	136	109 - 163	µmol/L
Tobramycin	QMS	1.14	0.91 - 1.37	3.06	2.45 - 3.67	6.43	5.14 - 7.72	µg/mL	2.44	1.95 - 2.93	6.55	5.24 - 7.85	13.8	11.0 - 16.5	µmol/L
Tricyclic Antidepressants****															
Valproic Acid	EIA (DRI)	145	116 - 174	695	556 - 834	>1000		ng/mL	0.55	0.44 - 0.66	2.64	2.11 - 3.17	>3.80		µmol/L
	CEDIA	20.3	16.2 - 24.3	56.4	45.1 - 67.7	111	88.4 - 133	µg/mL	140	112 - 169	391	313 - 469	767	613 - 920	µmol/L

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THERMO FISHER SCIENTIFIC INDIKO PLUS															
Acetaminophen	EIA (DRI)	25.4	19.6 - 31.1	68.6	51.6 - 85.5	120	86.8 - 154	µg/mL	168	130 - 206	453	342 - 565	796	574 - 1017	µmol/L
Amikacin	QMS	5.56	4.45 - 6.67	15.2	12.2 - 18.3	31.9	25.5 - 38.3	µg/mL	9.50	7.60 - 11.4	26.0	20.8 - 31.2	54.5	43.6 - 65.4	µmol/L
Carbamazepine	CEDIA	4.21	3.37 - 5.05	9.12	7.30 - 10.9	17.4	13.9 - >20.0	µg/mL	17.8	14.3 - 21.4	38.6	30.9 - 46.3	73.7	59.0 - >84.6	µmol/L
Digoxin	Microparticles (1669)	**		**		**		ng/mL	**		**		**		nmol/L
Ethanol	EIA (DRI)	56.0	44.8 - 67.2	135	108 - 162	255	204 - 306	mg/dL	12.2	9.73 - 14.6	29.3	23.4 - 35.1	55.3	44.3 - 66.4	mmol/L
Gentamicin	QMS	1.49	1.19 - 1.79	4.10	3.28 - 4.92	8.17	6.54 - 9.80	µg/mL	3.12	2.49 - 3.75	8.59	6.87 - 10.3	17.1	13.7 - 20.5	µmol/L
Lithium	Colorimetric (TRACE Infinity)	0.56	0.45 - 0.67	1.22	0.98 - 1.46	2.39	1.91 - 2.87	mmol/L	0.56	0.45 - 0.67	1.22	0.98 - 1.46	2.39	1.91 - 2.87	mEq/L
Phenytoin	CEDIA	6.93	5.54 - 8.32	17.0	13.6 - 20.4	31.7	25.4 - 38.0	µg/mL	27.5	22.0 - 33.0	67.4	53.9 - 80.9	126	100 - 151	µmol/L
Theophylline	CEDIA	5.18	4.14 - 6.22	13.3	10.6 - 15.9	24.9	19.9 - 29.9	µg/mL	28.8	23.0 - 34.5	73.7	58.9 - 88.4	138	110 - 166	µmol/L
Tobramycin	QMS	1.17	0.94 - 1.40	2.98	2.38 - 3.58	6.01	4.81 - 7.21	µg/mL	2.50	2.01 - 2.99	6.37	5.09 - 7.66	12.9	10.3 - 15.4	µmol/L
Tricyclic Antidepressants****															
	EIA (DRI)	147	118 - 176	741	447 - >1000	>1000		ng/mL	0.56	0.45 - 0.67	2.81	1.70 - >3.80	>3.80		µmol/L
Valproic Acid	CEDIA	23.8	19.0 - 28.5	61.7	49.3 - 74.0	121	96.6 - 145	µg/mL	165	132 - 198	427	342 - 513	837	670 - 1005	µmol/L
Vancomycin *****	QMS	6.84	5.47 - 8.21	34.2	27.4 - 41.1	76.2	61.0 - 91.5	µg/mL	4.72	3.77 - 5.66	23.6	18.9 - 28.3	52.6	42.1 - 63.1	µmol/L

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TOSOH AIA SYSTEMS														
Thyroid Stimulating Hormone (TSH) EIA	1.00	0.70 - 1.30	2.35	1.65 - 3.06	4.46	3.12 - 5.80	μIU/mL	1.00	0.70 - 1.30	2.35	1.65 - 3.06	4.46	3.12 - 5.80	mIU/L
Thyroid Stimulating Hormone (TSH) EIA (TSH3G)	1.04	0.73 - 1.35	2.40	1.68 - 3.12	4.23	2.96 - 5.50	μIU/mL	1.04	0.73 - 1.35	2.40	1.68 - 3.12	4.23	2.96 - 5.50	mIU/L
Thyroxine, Total (T4) EIA	4.10	2.90 - 5.30	9.50	6.70 - 12.4	15.7	11.0 - 20.4	μg/dL	52.8	37.3 - 68.2	122	86.2 - 160	202	142 - 263	nmol/L
Triiodothyronine, Total (T3) EIA	3.87	2.71 - 5.03	>8.00		>8.00		ng/mL	5.94	4.16 - 7.72	>12.3		>12.3		nmol/L

AIA Series®, Reg. TM: Tosoh Medics, Inc, S. San Francisco, CA
Architect®, **AxSYM**®, Reg. TM: Abbott Laboratories, Inc., Abbott Park, IL
Advia® **Centaur**®, **Immulate**®, Reg. TM: Siemens Healthcare Diagnostics, Tarrytown, NY
AU Series®, **Access**®, **Synchron**® **UniCel DxC**, Reg. TM: Beckman Coulter Inc., Brea, CA
Cobas®, **Elecsys**®, **Hitachi**®, **Integra**®, Reg. TM: Roche Diagnostics, Inc, Indianapolis, IN
Dimension®, **EMIT**®, **Dimension Vista**®, **Vlva**®, Reg. TM: Siemens Healthcare Diagnostics, Glasgow, DE
Thermo Photometer®, Reg. TM: Instrumentation Laboratory, Lexington, MA
Vitros®, Reg. TM: Ortho-Clinical Diagnostics, Rochester, NY

- ** **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 nejsou k dispozici. Máte-li zájem o účast v našem procesu přiřazení hodnot, pošlete skupině Value Assignment své kontaktní údaje faxem nebo e-mailem na číslo 510-771-1539, nebo 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.
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- ** Data ikke tilgjengelige. Dersom dere er interessert i å delta i verdifastsettelsesprosessen vår, kan dere sende kontaktinformasjonen deres til verdifastsettelsesgruppen vår per fax til faksnummer 510-771-1539 eller per e-post til mgc-va@thermofisher.com.
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- *** **Contains the following Tricyclic Antidepressants (TCA): Imipramine/Desipramine/Amitriptyline/Nortriptyline.**
- *** Contiene los siguientes Antidepresivos Tricíclicos (TCA): Imipramine/Desipramine/Amitriptyline/Nortriptyline.
- *** Die folgenden Trizyklische Antidepressiva (TCA) sind enthalten: Imipramine/Desipramine/Amitriptyline/Nortriptyline.
- *** Les suivants sont les Antidépresseur Tricycliques (TCA) contenus: Imipramine/Desipramine/Amitriptyline/Nortriptyline.
- *** Contiene i seguenti TCA (Antidepressivi Triciclici): Imipramine/Desipramine/Amitriptyline/Nortriptyline.
- *** Obsahuje následující tricyklická antidepresiva (TCA): imipramin/desipramin/amitriptylin/nortriptylin.
- *** Indeholder følgende tricykliske antidepressive midler (TCA): Imipramin/Desipramin/Amitriptylin/Nortriptylin.
- *** Bevat de volgende tricyclische antidepressiva (TCA's): imipramine/desipramine/amitriptyline/nortriptyline.
- *** Sisältää seuraavia trisyklisiä masennuslääkkeitä (TCA): imipramiini/desipramiini/amitriptyliini/nortriptyliini.
- *** Περιέχει τα ακόλουθα Τρικυκλικά Αντικαταθλιπτικά (TCA): Ιμιπραμίνη/Δεσιπραμίνη/Αμιτριπτυλίνη/Νορτριπτυλίνη.
- *** Inneholder følgende trisykliske antidepressiver (TCA): Imipramin/desipramin/amitriptylin/nortriptylin.
- *** Produkt zawiera następujące trójprziedienowe leki przeciwdepresyjne (TCA): imipramina/dezypiramina/amitriptylina/nortriptylina.
- *** Contém os seguintes Antidepressivos tricíclicos (TCA): Imipramina/Desipramina/Amitriptilina/Nortriptilina.
- *** Содержит следующие трициклические антидепрессанты (TCA): имипрамин/дезипрамин/амитриптилин/нортриптилин.
- *** Innehåller följande tricykliska antidepressiva: Imipramin/Desipramin/Amitriptylin/Nortriptylin.
- *** Aşağıdaki Trisiklik Antidepressanları içerilebilir (TCA): Imipramin/Desipramin/Amitriptilin/Nortriptilin.
- *** 包含以下三环类抗抑郁药 (TCA): 丙咪嗪 / 去甲丙咪嗪 / 阿米替林 / 去甲替林。
- *** 次の三環系抗うつ薬 (TCA) を含有しています。イミプラミン/デシプラミン/アミトリプチリン/ノルトリプチリン。
- **** **Vancomycin values may decrease over the product shelf-life. Laboratory means may fall below published ranges. Contact Technical Assistance for current peer group data.**
- **** Los valores de vancomycin pueden disminuir durante el almacenamiento del producto. Las medias del laboratorio pueden ser inferiores a los rangos publicados. Contactar con Asistencia Técnica para obtener información actualizada de grupos expertos
- **** Vancomycin-Werte können im Verlauf der Lagerungszeit sinken. Labormittel können unter die angegebenen Bereiche fallen. Setzen Sie sich mit Technical Assistance in Bezug auf Vergleichsdaten in Verbindung
- **** Les valeurs de la vancomycin peuvent diminuer au cours de la durée de conservation du produit. Les moyennes du laboratoire peuvent être inférieures aux intervalles publiés. Contacter l'Assistance technique pour les données de groupes actuelles
- **** I valori della vancomycin possono diminuire nel corso della durata del prodotto. I valori medi di laboratorio possono scendere sotto gli intervalli pubblicati. Contattare l'assistenza tecnica per i dati attuali dei gruppi identici.
- **** Hodnoty vankomycínu se mohou snížit během doby použitelnosti přípravku. Laboratorní průměry mohou klesnout pod zveřejněné rozsahy. Pro aktuální data skupiny typu peer se obraťte na technickou podporu.
- **** Vancomycin-værdierne kan reduceres hen over produktets holdbarhedstid. Laboratoriets gennemsnitsværdier kan falde til under de angivne områder. Kontakt Teknisk assistance for at få de aktuelle peer group-data.
- **** De vancomycinwaarden kunnen afnemen gedurende de houdbaarheidsperiode van het product. De laboratoriumgemiddelden kunnen onder de gepubliceerde grenswaarden vallen. Neem contact op met de afdeling Technische ondersteuning voor de huidige intercollegiale gegevens.
- **** Jankomysiiniarvot voivat laskea tuotteen säilytysaikana. Laboratorion keskiarvot voivat laskea julkistujen arvojen alapuolelle. Pyydä teknistä tuesta viimeisimmät vertailuryhmätiedot.
- **** Οι τιμές βανκομυκίνης ενδέχεται να μειωθούν κατά τη διάρκεια της ζωής του προϊόντος. Οι εργαστηριακές μέσες τιμές ενδέχεται να είναι χαμηλότερες από τα δημοσιευμένα εύρη τιμών. Επικοινωνήστε με το τμήμα Τεχνικής υποστήριξης για τα τρέχοντα δεδομένα ομότιμης ομάδας (peer group).
- **** Vancomycinverdiert kan bli redusert i løpet av produktets holdbarhetstid. Laboratoriemiddelverdiert kan synke under de publiserte områdene. Kontakt teknisk støtte for å få gjeldende referansegruppedata.
- **** Stężenie wankomycyny może się obniżyć z czasem przechowywania produktu. Średnie wartości laboratoryjne mogą spaść poniżej opublikowanych zakresów. Skontaktować się z działem pomocy technicznej, aby uzyskać aktualne dane uzyskane przez grupę podmiotów działających w tej branży.
- **** Os valores de vancomicina podem diminuir após a data de validade do produto. As médias do laboratório podem situar-se abaixo dos intervalos publicados. Contacte a assistência técnica para dados atualizados do grupo de pares.
- **** Свойства ванкомицина могут ослабевать в течение срока хранения продукта. Лабораторные средние значения могут быть ниже опубликованных диапазонов значений. Обращайтесь в службу технической поддержки за актуальными данными экспертной группы.
- **** Värdet för vankomycin kan minska ju närmre utgångsdatum produkten befinner sig Laboratoriemedelvärdena kan falla under de publicerade intervallen. Kontakta Teknisk assistans för aktuella jämförelsegruppdata.
- **** Vankomisin degerleri ürünün raf ömrü süresince azalabilir. Laboraturar ortalamaları yayınlanan aralıklardan altın düşebilir. Güncel eş grup verileri için Teknik Yardım ile iletişime kurun.
- **** 万古霉素值在产品保质期内可能会降低。实验室平均值可能低于公布的范围。请联系技术援助，以获得当前对等组的数据。
- **** Ванкомицин測定値は、製品の有効期間を過ぎると、低下する可能性があります。そのため、ラボの平均値が公表されている範囲を下回る可能性があります。最新のピアグループのデータについては、テクニカルサポートにお問い合わせください。

LOT

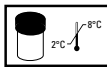
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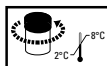
“Use By” date / Verwendbar bis / Date limite d’utilisation optimale / “Utilizzare entro” / Fecha límite de uso / Datum spotřeby / “Anvendes før”-dato / Houdbaarheidsdatum / “Käyt. viim.”-päivämäärä / Ημερομηνία λήξης / Utløpsdato / Termin przydatności / Data de validade / Дата «Использовать до» / Utgångsdatum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



Refrigerated Temperature Limitation / Kühltemperaturbegrenzung / Limite de température de réfrigération / Limite di temperatura di refrigerazione / Limitación de la temperatura de refrigeración / Teplotní omezení chlazení / Temperaturbegrensning – nedkølet / Bepörking in gekoelde toestand / Jääkaappilämpötilan rajat / Περιορισμός θερμοκρασίας ψύξης / Kjøletemperaturbegrensning / Ograniczenie temperatury chłodzenia / Limitação de Temperatura Refrigerada / Ограничение температуры заморозки / Kyltemperaturbegränsning / Soğutulmuş Sıcaklık Sınırlanması / 冷藏温度限制 / 冷藏温度限界



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 / Stabilita neotevéné lahvičky: Teplota chlazení / 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 odczytników w nieotwartej fiolce: temperatura chłodzenia / Estabilidade no frasco fechado: Temperatura refrigerada / Стабильность не вскрытого флакона: температура охлаждения / Hållbarhet vid öppnad flaska: kylt 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 / Stabilita otevíené lahvičky: Teplota chlazení / Stabilitet i åbnet hætteglas: Nedkølet / Stabilitet van geopend flesje: in gekoelde toestand / Avatun ampullin stabiilius: jääkaappilämpötilassa / Σταθερότητα ανοιχμένου φιαλιδίου: Θερμοκρασία ψύξης / Stabilitet i åpnet tilstand: Kjøletemperatur / Stabiłność odczytników w otwartej fiolce: temperatura chłodzenia / Estabilidade no frasco aberto: Temperatura refrigerada / Стабильность вскрытого флакона: температура охлаждения / Hållbarhet vid öppnad flaska: kylt 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 / Katalogové číslo / Katalognummer / Catalogusnummer / Tuotenumero / Αριθμός καταλόγου / Katalognummer / Numer katalogowy / Referência / Номер по каталогу / Katalognummer / Katalog Numarası / 目录编号 / カタログ番号



Manufacturer / Hersteller / Fabricant / Produttore / Fabricante / Výrobce / Producent / Fabrikant / Valmistaja / Κατασκευαστής / Produsent / Producent / Fabricante / Produsent / Tilverkare / Üretici / 制造商 / 製造元



Caution / Vorsicht / Attention / Attenzione / Atención / Upozornění / 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 / Přečtete si návod k obsluze / Se brugsanvisningen / Raadpleeg de gebruiksaanwijzing / Katsó käyttöohjeita / Συμβουλευτείτε τις οδηγίες χρήσης / Se i bruksanvisningen / Sprawdzić w instrukcji użytkowania / Consultar instruções de utilização / См. инструкцию по применению / Läs bruksanvisningen / Kullannin talimatlarna danşın / 参阅使用说明 / 取扱説明書を参照

EC/REP

Authorized Representative / Bevollmächtigter in der Europäischen Gemeinschaft / Représentant agréé / Rappresentante autorizzato / Representante autorizado / Autorizovaný zástupce / Autoriseret repræsentant / Geautoriseerd vertegenwoordiger / Valtuutettu edustaja / Εξουσιοδοτημένος αντιπρόσωπος / Godkjent representant / Autoryzowany przedstawiciel / Representante autorizado / Авторизованный представитель / Auktoriserad representant / Yetkili Temsilci / 获授权代表 / 認定代理店

IVD

For In Vitro Diagnostic Use / In-vitro-Diagnostikum / Diagnostics in vitro / Per uso diagnostico in vitro / Para uso en diagnóstico in vitro / K diagnostickému použití 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 Diagnostik 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 / Biologické nebezpečí / Biologisk risiko / Biologisch risico / Biologinen riski / Κ βιολογικός κίνδυνος / Biologisk risiko / Zagrożenie biologiczne / Risco biológico / Биологическая опасность / Biologisk risk / Biologisk risk / 生物风险 / 生物学的リスク

CE

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

X̄

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

<R>

Expected Range / Erwarteter Bereich / Valeur attendue / Intervallo previsto / Intervallo previsto / Očekávaný rozsah / 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 / Jednotky / Enheder / Eenheden / Yksiköt / Μονάδες / Enheter / Jednostki / Unidades / Единици / Enheter / Birimler / 单位 / 單位

CON

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

SI

System International Units / SI-Einheiten / Système international d’unités / Unità sistema internazionale / Unidades del sistema internacional / Systém mezinárodních jednotek / SI-systemet / System International-eenheden / Kansainväliset yksiköt / Μονάδες διεθνούς συστήματος / SI-enheter / Jednostki w układzie SI / Unidades do Sistema Internacional / Единици СИ / SI-enheter / Sistem Uluslararası Birimleri / 国际单位 / 国际单位系

U

Constituent and Method / Bestandteil und Methode / Composant et méthode / Componente e metodo / Componente y método / Složka a metoda / Bestanddel og metode / Bestanddeel en metode / 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 domande relative 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.

Máte-li nějaké otázky ohledně tohoto upozornění, v USA kontaktujte oddělení technické podpory na čísle 800-232-3342 nebo 510-979-5417. Mimo USA se prosím obraťte na místní pobočku společnosti nebo na autorizovaného distributora.

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.

W razie jakichkolwiek pytań dotyczących tego powiadomienia, należy skontaktować się z działem wsparcia technicznego pod numerem 800-232-3342 lub 510-979-5417 (na obszarze Stanów Zjednoczonych). Poza obszarem Stanów Zjednoczonych należy skontaktować się z lokalnym oddziałem firmy lub dystrybutorem.

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 bildirime 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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