

**PRODUCT INFORMATION**

Cat. No. IA3109

2543EC

Please note in Immunoassay Premium Plus - Level 1 IA3109 the concentration of 25-OH-Vitamin D is low compared to previous lots. The level should be reviewed in line with the assay range of your analyser.

For any queries in relation to this notice, please contact [technical.services@randox.com](mailto:technical.services@randox.com)

qCCS 2357

## IMMUNOASSAY PREMIUM PLUS - LEVEL I (IA PREMIUM PLUS I)

<b>CAT. NO.</b> IA3109	<b>GTIN:</b> 05055273207255	<b>SIZE:</b> 12 x 5 ml
<b>CAT. NO.</b> IA3112	<b>GTIN:</b> 05055273207286	<b>SIZE:</b> 4 x 5 ml
<b>LOT NO.</b> 2543EC	<b>EXPIRY:</b> 2028-07-28	

### INTENDED USE

This product is intended for *in vitro* diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

**This device is for prescription use only.**

### SAFETY PRECAUTIONS AND WARNINGS

For *in vitro* diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests. However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

The Abbott Architect CA19-9 assay utilises an antibody/antigen system based on the I116-NA-19-9 antibody. There are reports that the formulation employed with this system may return elevated concentrations, when compared to other methods for samples expressing high levels of I116-NA-19-9 reactive determinants.

Health and Safety Data Sheets are available on request.

### STORAGE AND STABILITY

**OPENED:** Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C.

ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

**UNOPENED:** Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

### PREPARATION

Immunoassay Premium Plus is supplied lyophilized.

- Carefully reconstitute each vial of lyophilised serum with exactly 5 ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.
- Refer to the Control section of the individual analyser application.
- Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

### MATERIALS PROVIDED

Immunoassay Premium Plus - Level I: 12 x 5 ml Tri-Level: 4 x 5 ml

### MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

### VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

If a method is unavailable, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email [Technical.Services@randox.com](mailto:Technical.Services@randox.com).

EC	REP	Randox Teoranta, Meenmore, Dungloe, Donegal, F94 TV06, Ireland
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## Table of Content

Method

2

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)						
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28								
Size: 12 x 5 ml / 4 x 5 ml		Range						
Analyte	Unit	Target	Low	High	1SD	2SD	Method	
17-OH-Progesterone	ng/ml	0.237	0.178	0.296	0.030	0.059	DiaMetra ELISA	
	nmol/l	0.717	0.538	0.896	0.090	0.179		
	ng/ml	1.53	1.15	1.91	0.190	0.380	DIAsource, RIA	
	nmol/l	4.62	3.47	5.77	0.575	1.15		
	ng/ml	0.874	0.656	1.09	0.108	0.216	Immunotech RIA	
	nmol/l	2.64	1.98	3.30	0.330	0.660		
	ng/ml	0.900	0.675	1.13	0.115	0.230	LC/MS	
	nmol/l	2.72	2.04	3.40	0.340	0.680		
	25-OH-Vitamin D	ng/ml	4.09	3.07	5.11	0.510	1.02	Abbott Alinity i
		nmol/l	10.2	7.65	12.8	1.30	2.60	
ng/ml		4.05	3.04	5.06	0.505	1.01	Abbott Architect (3L52)	
nmol/l		10.1	7.58	12.6	1.25	2.50		
ng/ml		4.21	3.16	5.26	0.525	1.05	Abbott Architect (5P02)	
nmol/l		10.5	7.88	13.1	1.30	2.60		
ng/ml		8.93	6.70	11.2	1.14	2.27	Beckman Access 25 OH Vitamin D Total	
nmol/l		22.3	16.7	27.9	2.80	5.60		
ng/ml		8.93	6.70	11.2	1.14	2.27	Beckman Dxl 9000	
nmol/l		22.3	16.7	27.9	2.80	5.60		
ng/ml		7.93	5.95	9.91	0.990	1.98	bioMerieux Vidas/mini Vidas/Vidas 3	
nmol/l		19.8	14.9	24.7	2.45	4.90		
ng/ml		8.89	6.67	11.1	1.11	2.21	DiaSorin Liaison	
nmol/l		22.2	16.7	27.7	2.75	5.50		
ng/ml		8.49	6.37	10.6	1.06	2.11	DiaSorin Liaison XL	
nmol/l		21.2	15.9	26.5	2.65	5.30		
ng/ml		4.97	3.73	6.21	0.620	1.24	J. Mitra CLIA - 181	
nmol/l		12.4	9.30	15.5	1.55	3.10		
ng/ml		5.09	3.82	6.36	0.635	1.27	J. Mitra CLIA - 2000	
nmol/l		12.7	9.53	15.9	1.60	3.20		
ng/ml	11.5	8.63	14.4	1.45	2.90	Mindray CL 900i		
nmol/l	28.7	21.5	35.9	3.60	7.20			
ng/ml	24.1	18.1	30.1	3.00	6.00	Ortho Vitros 3600/5600/ECi/XT 7600		
nmol/l	60.1	45.1	75.1	7.50	15.0			
ng/ml	3.33	2.50	4.16	0.415	0.830	Roche Vitamin D Total		
nmol/l	8.31	6.23	10.4	1.05	2.09			
ng/ml	3.08	2.31	3.85	0.385	0.770	Roche Vitamin D Total II		
nmol/l	7.69	5.77	9.61	0.960	1.92			
ng/ml	3.00	2.25	3.75	0.375	0.750	Roche Vitamin D Total II e402/e801		
nmol/l	7.50	5.63	9.37	0.935	1.87			

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
25-OH-Vitamin D	ng/ml	3.18	2.39	3.97	0.395	0.790	Roche Vitamin D total III
	nmol/l	7.94	5.96	9.92	0.990	1.98	
	ng/ml	3.03	2.27	3.79	0.380	0.760	Roche Vitamin D Total III e402/e801
	nmol/l	7.57	5.68	9.46	0.945	1.89	
	ng/ml	11.6	8.70	14.5	1.45	2.90	Shenzhen YHLO iFlash Series
	nmol/l	29.0	21.8	36.2	3.60	7.20	
	ng/ml	4.25	3.19	5.31	0.530	1.06	Siemens Atellica IM
	nmol/l	10.6	7.95	13.3	1.35	2.70	
	ng/ml	4.21	3.16	5.26	0.525	1.05	Siemens Centaur
	nmol/l	10.5	7.88	13.1	1.30	2.60	
	ng/ml	6.97	5.23	8.71	0.870	1.74	TOSOH AIA Series
	nmol/l	17.4	13.1	21.7	2.15	4.30	
ACTH	pg/ml	9.73	7.30	12.2	1.24	2.47	Mindray CL series (Excl. CL 900 series)
	pmol/l	2.14	1.61	2.67	0.265	0.530	
	pg/ml	16.2	12.2	20.2	2.00	4.00	Roche Cobas 4000/e411
	pmol/l	3.57	2.68	4.46	0.445	0.890	
	pg/ml	14.7	11.0	18.4	1.85	3.70	Roche Cobas e402/e801
	pmol/l	3.23	2.42	4.04	0.405	0.810	
	pg/ml	15.5	11.6	19.4	1.95	3.90	Roche Cobas e601/ 602
	pmol/l	3.40	2.55	4.25	0.425	0.850	
	pg/ml	12.0	9.00	15.0	1.50	3.00	Siemens/DPC Immulite 1000
	pmol/l	2.65	1.99	3.31	0.330	0.660	
	pg/ml	8.95	6.71	11.2	1.13	2.25	Siemens/DPC Immulite 2000/2500
	pmol/l	1.97	1.48	2.46	0.245	0.490	
Aldosterone	pg/ml	9.86	7.40	12.3	1.22	2.44	Tosoh AIA-CL Series
	pmol/l	2.17	1.63	2.71	0.270	0.540	
Alpha-fetoprotein	pg/ml	55.2	41.4	69.0	6.90	13.8	Immunotech RIA
	pmol/l	153	115	191	19.0	38.0	
Alpha-fetoprotein	ng/ml	8.63	6.90	10.4	0.885	1.77	3HB-GGG Start
	KIU/l = IU/ml	7.13	5.70	8.56	0.715	1.43	
	ng/ml	8.65	6.92	10.4	0.875	1.75	Abbott Alinity i
	KIU/l = IU/ml	7.15	5.72	8.58	0.715	1.43	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Alpha-fetoprotein	ng/ml	9.68	7.74	11.6	0.960	1.92	Beckman Access/LXi725
	KIU/I = IU/ml	8.00	6.40	9.60	0.800	1.60	
	ng/ml	9.56	7.65	11.5	0.970	1.94	Beckman Dxl 600/800
	KIU/I = IU/ml	7.90	6.32	9.48	0.790	1.58	
	ng/ml	9.68	7.74	11.6	0.960	1.92	Beckman Dxl 9000
	KIU/I = IU/ml	8.00	6.40	9.60	0.800	1.60	
	ng/ml	11.3	9.04	13.6	1.15	2.30	Beckman/Immunotech IRMA
	KIU/I = IU/ml	9.35	7.48	11.2	0.925	1.85	
	ng/ml	2.94	2.35	3.53	0.295	0.590	bioMerieux, Vidas/Mini Vidas
	KIU/I = IU/ml	2.43	1.94	2.92	0.245	0.490	
	ng/ml	10.8	8.64	13.0	1.10	2.20	DiaSorin Liaison XL
	KIU/I = IU/ml	8.95	7.16	10.7	0.875	1.75	
	ng/ml	9.44	7.55	11.3	0.930	1.86	Finecare
	KIU/I = IU/ml	7.80	6.24	9.36	0.780	1.56	
	ng/ml	9.92	7.94	11.9	0.990	1.98	Fujirebio Lumipulse G Series
	KIU/I = IU/ml	8.20	6.56	9.84	0.820	1.64	
ng/ml	8.68	6.94	10.4	0.860	1.72	J. Mitra CLIA - 181	
KIU/I = IU/ml	7.17	5.74	8.60	0.715	1.43		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Alpha-fetoprotein	ng/ml	8.80	7.04	10.6	0.900	1.80	J. Mitra CLIA - 2000
	KIU/I = IU/ml	7.27	5.82	8.72	0.725	1.45	
	ng/ml	8.42	6.74	10.1	0.840	1.68	Mindray CL 900i/920i/960i/980i
	KIU/I = IU/ml	6.96	5.57	8.35	0.695	1.39	
	ng/ml	8.34	6.67	10.0	0.830	1.66	Mindray CL series (Excl. CL 900 series)
	KIU/I = IU/ml	6.89	5.51	8.27	0.690	1.38	
	ng/ml	12.9	10.3	15.5	1.30	2.60	Ortho Vitros 3600/5600/ECi/XT 7600
	KIU/I = IU/ml	10.7	8.56	12.8	1.05	2.10	
	ng/ml	9.09	7.27	10.9	0.905	1.81	Roche Cobas 4000/e411
	KIU/I = IU/ml	7.51	6.01	9.01	0.750	1.50	
	ng/ml	10.1	8.08	12.1	1.00	2.00	Roche Cobas e402/e801
	KIU/I = IU/ml	8.36	6.69	10.0	0.820	1.64	
	ng/ml	9.23	7.38	11.1	0.935	1.87	Roche Cobas e601/ 602
	KIU/I = IU/ml	7.63	6.10	9.16	0.765	1.53	
	ng/ml	9.67	7.74	11.6	0.965	1.93	Roche Elecsys
	KIU/I = IU/ml	7.99	6.39	9.59	0.800	1.60	
ng/ml	8.48	6.78	10.2	0.860	1.72	Shenzhen YHLO iFlash Series	
KIU/I = IU/ml	7.01	5.61	8.41	0.700	1.40		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Alpha-fetoprotein	ng/ml	12.7	10.2	15.2	1.25	2.50	Siemens Atellica IM
	KIU/I = IU/ml	10.5	8.40	12.6	1.05	2.10	
	ng/ml	12.8	10.2	15.4	1.30	2.60	Siemens Centaur
	KIU/I = IU/ml	10.6	8.48	12.7	1.05	2.10	
	ng/ml	7.85	6.28	9.42	0.785	1.57	Siemens/DPC Immulite 2000/2500
	KIU/I = IU/ml	6.49	5.19	7.79	0.650	1.30	
	ng/ml	8.35	6.68	10.0	0.825	1.65	Sysmex HISCL Series
	KIU/I = IU/ml	6.90	5.52	8.28	0.690	1.38	
	ng/ml	9.62	7.70	11.5	0.940	1.88	TOSOH AIA Series
	KIU/I = IU/ml	7.95	6.36	9.54	0.795	1.59	
	ng/ml	8.28	6.62	9.94	0.830	1.66	Tosoh AIA-CL Series
	KIU/I = IU/ml	6.84	5.47	8.21	0.685	1.37	
Amikacin	µg/ml	3.75	3.00	4.50	0.375	0.750	Abbott Alinity
	µmol/l	6.40	5.12	7.68	0.640	1.28	
	µg/ml	3.87	3.10	4.64	0.385	0.770	EMIT
	µmol/l	6.61	5.29	7.93	0.660	1.32	
	µg/ml	3.79	3.03	4.55	0.380	0.760	Roche Cobas 6000/8000
	µmol/l	6.47	5.18	7.76	0.645	1.29	
µg/ml	3.67	2.94	4.40	0.365	0.730	Thermo Scientific QMS Amikacin	
µmol/l	6.27	5.02	7.52	0.625	1.25		
Androstenedione	ng/ml	0.844	0.633	1.06	0.108	0.216	Beckman Coulter Active RIA
	nmol/l	2.94	2.21	3.67	0.365	0.730	
	ng/ml	0.970	0.728	1.21	0.120	0.240	DiaSorin Liaison XL
	nmol/l	3.38	2.54	4.22	0.420	0.840	
	ng/ml	1.17	0.878	1.46	0.145	0.290	LC/MS
	nmol/l	4.08	3.06	5.10	0.510	1.02	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Androstenedione	ng/ml	0.973	0.730	1.22	0.124	0.247	Roche Elecsys
	nmol/l	3.39	2.54	4.24	0.425	0.850	
	ng/ml	0.901	0.676	1.13	0.115	0.229	Siemens Atellica IM
	nmol/l	3.14	2.36	3.92	0.390	0.780	
Beta-2-Microglobulin	µg/ml = mg/l	0.925	0.740	1.11	0.093	0.185	Abbott Alinity
	µg/ml = mg/l	0.880	0.704	1.06	0.090	0.180	Abbott Architect
	µg/ml = mg/l	0.855	0.684	1.03	0.088	0.175	Beckman AU Instruments
	µg/ml = mg/l	0.984	0.787	1.18	0.098	0.196	Binding Site Optilite
	µg/ml = mg/l	0.969	0.775	1.16	0.096	0.191	bioMerieux, VIDAS
	µg/ml = mg/l	0.783	0.626	0.940	0.079	0.157	DiaSorin Liaison XL
	µg/ml = mg/l	0.937	0.750	1.12	0.092	0.183	Roche Cobas 4000/c311
	µg/ml = mg/l	1.00	0.800	1.20	0.100	0.200	Roche Cobas 6000/8000
	µg/ml = mg/l	1.10	0.880	1.32	0.110	0.220	Roche Elecsys
	µg/ml = mg/l	1.01	0.808	1.21	0.100	0.200	Roche Tinaquant
	µg/ml = mg/l	0.824	0.659	0.989	0.083	0.165	Siemens Atellica CH
	µg/ml = mg/l	0.990	0.792	1.19	0.100	0.200	Siemens/Behring Nephelometer
	µg/ml = mg/l	0.916	0.733	1.10	0.092	0.184	Siemens/DPC Immulite 2000/2500
	µg/ml = mg/l	0.810	0.648	0.972	0.081	0.162	Tosoh AIA-CL Series
C-Peptide	ng/ml	1.22	0.915	1.53	0.155	0.310	Abbott Alinity i
	nmol/l	0.404	0.303	0.505	0.051	0.101	
	ng/ml	1.27	0.953	1.59	0.160	0.320	Abbott Architect
	nmol/l	0.419	0.314	0.524	0.053	0.105	
C-Peptide	ng/ml	0.981	0.736	1.23	0.125	0.249	Beckman Access C-Peptide
	nmol/l	0.325	0.244	0.406	0.041	0.081	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
C-Peptide	ng/ml	0.981	0.736	1.23	0.125	0.249	Beckman Dxl 9000
	nmol/l	0.325	0.244	0.406	0.041	0.081	
	ng/ml	1.63	1.22	2.04	0.205	0.410	DiaSorin Liaison
	nmol/l	0.540	0.405	0.675	0.068	0.135	
	ng/ml	1.72	1.29	2.15	0.215	0.430	DiaSorin Liaison XL
	nmol/l	0.569	0.427	0.711	0.071	0.142	
	ng/ml	1.69	1.27	2.11	0.210	0.420	J. Mitra CLIA - 181
	nmol/l	0.560	0.420	0.700	0.070	0.140	
	ng/ml	1.66	1.25	2.07	0.205	0.410	J. Mitra CLIA - 2000
	nmol/l	0.550	0.413	0.687	0.069	0.137	
	ng/ml	1.04	0.780	1.30	0.130	0.260	Mindray CL series (Excl. CL 900 series)
	nmol/l	0.346	0.260	0.432	0.043	0.086	
	ng/ml	1.27	0.953	1.59	0.160	0.320	Ortho Vitros 3600/5600/ECi/ XT 7600
	nmol/l	0.422	0.317	0.527	0.053	0.105	
	ng/ml	1.53	1.15	1.91	0.190	0.380	Roche Cobas 4000/e411
	nmol/l	0.508	0.381	0.635	0.064	0.127	
	ng/ml	1.43	1.07	1.79	0.180	0.360	Roche Cobas e402/e801
	nmol/l	0.473	0.355	0.591	0.059	0.118	
	ng/ml	1.47	1.10	1.84	0.185	0.370	Roche Cobas e601/ 602
	nmol/l	0.488	0.366	0.610	0.061	0.122	
	ng/ml	1.60	1.20	2.00	0.200	0.400	Shenzhen YHLO iFlash Series
	nmol/l	0.529	0.397	0.661	0.066	0.132	
	ng/ml	1.11	0.833	1.39	0.140	0.280	Siemens Atellica IM
	nmol/l	0.367	0.275	0.459	0.046	0.092	
ng/ml	1.18	0.885	1.48	0.150	0.300	Siemens Centaur	
nmol/l	0.390	0.293	0.487	0.049	0.097		
ng/ml	1.04	0.780	1.30	0.130	0.260	Siemens/DPC Immulite 2000/2500	
nmol/l	0.346	0.260	0.432	0.043	0.086		
ng/ml	1.09	0.818	1.36	0.135	0.270	TOSOH AIA Series	
nmol/l	0.361	0.271	0.451	0.045	0.090		
ng/ml	1.23	0.923	1.54	0.155	0.310	Tosoh AIA-CL Series	
nmol/l	0.406	0.305	0.507	0.051	0.101		
CA 125	U/ml	28.9	23.1	34.7	2.90	5.80	Abbott Alinity
	U/ml	28.6	22.9	34.3	2.85	5.70	Abbott Architect
	U/ml	15.2	12.2	18.2	1.50	3.00	Beckman Access/LXi725
	U/ml	14.6	11.7	17.5	1.45	2.90	Beckman Dxl 600/800
	U/ml	15.2	12.2	18.2	1.50	3.00	Beckman Dxl 9000
	U/ml	20.1	16.1	24.1	2.00	4.00	BioMerieux VIDAS
	U/ml	24.6	19.7	29.5	2.45	4.90	DiaSorin Liaison XL

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CA 125	U/ml	20.7	16.6	24.8	2.05	4.10	Fujirebio Lumipulse G Series
	U/ml	9.27	7.42	11.1	0.915	1.83	Immunotech IRMA
	U/ml	16.8	13.4	20.2	1.70	3.40	J. Mitra CLIA - 181
	U/ml	16.8	13.4	20.2	1.70	3.40	J. Mitra CLIA - 2000
	U/ml	26.7	21.4	32.0	2.65	5.30	Mindray CL 900i/920i/960i/980i
	U/ml	26.9	21.5	32.3	2.70	5.40	Mindray CL series (Excl. CL 900 series)
	U/ml	16.2	13.0	19.4	1.60	3.20	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	17.5	14.0	21.0	1.75	3.50	Roche Cobas 4000/e411
	U/ml	18.1	14.5	21.7	1.80	3.60	Roche Cobas e402/e801
	U/ml	17.2	13.8	20.6	1.70	3.40	Roche Cobas e601/ 602
	U/ml	18.1	14.5	21.7	1.80	3.60	Roche Elecsys
	U/ml	29.1	23.3	34.9	2.90	5.80	Shenzhen YHLO iFlash Series
	U/ml	23.3	18.6	28.0	2.35	4.70	Siemens Atellica IM
	U/ml	18.9	15.1	22.7	1.90	3.80	Siemens Centaur CA125 II
	U/ml	18.7	15.0	22.4	1.85	3.70	Siemens Centaur OV Kit
	U/ml	12.9	10.3	15.5	1.30	2.60	Siemens/DPC Immulite 2000/2500
	U/ml	38.3	30.6	46.0	3.85	7.70	TOSOH AIA Series
	U/ml	23.9	19.1	28.7	2.40	4.80	Tosoh AIA-CL Series
CA 15-3	U/ml	19.9	15.9	23.9	2.00	4.00	Abbott Alinity i
	U/ml	19.8	15.8	23.8	2.00	4.00	Abbott Architect
	U/ml	9.27	7.42	11.1	0.915	1.83	Beckman Access/LXi725
	U/ml	9.11	7.29	10.9	0.895	1.79	Beckman Dxl 600/800
	U/ml	9.27	7.42	11.1	0.915	1.83	Beckman Dxl 9000
	U/ml	17.1	13.7	20.5	1.70	3.40	BioMerieux VIDAS
	U/ml	17.3	13.8	20.8	1.75	3.50	DiaSorin Liaison XL
	U/ml	16.0	12.8	19.2	1.60	3.20	Immunotech IRMA
	U/ml	18.8	15.0	22.6	1.90	3.80	J. Mitra CLIA - 181
	U/ml	18.8	15.0	22.6	1.90	3.80	J. Mitra CLIA - 2000
	U/ml	11.4	9.12	13.7	1.15	2.30	Mindray CL 900i/920i/960i/980i
	U/ml	10.6	8.48	12.7	1.05	2.10	Mindray CL series (Excl. CL 900 series)
	U/ml	14.2	11.4	17.0	1.40	2.80	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	17.9	14.3	21.5	1.80	3.60	Roche Cobas 4000/e411
	U/ml	17.9	14.3	21.5	1.80	3.60	Roche Cobas e402/e801
	U/ml	18.4	14.7	22.1	1.85	3.70	Roche Cobas e601/ 602
	U/ml	18.0	14.4	21.6	1.80	3.60	Roche Elecsys
	U/ml	20.2	16.2	24.2	2.00	4.00	Shenzhen YHLO iFlash Series
	U/ml	16.7	13.4	20.0	1.65	3.30	Siemens Atellica IM
	U/ml	16.7	13.4	20.0	1.65	3.30	Siemens Centaur
U/ml	18.1	14.5	21.7	1.80	3.60	Siemens/DPC Immulite 2000/2500	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CA 15-3	U/ml	21.6	17.3	25.9	2.15	4.30	TOSOH AIA Series
	U/ml	17.5	14.0	21.0	1.75	3.50	Tosoh AIA-CL Series
CA 19-9	U/ml	43.8	35.0	52.6	4.40	8.80	Abbott Alinity XR
	U/ml	44.7	35.8	53.6	4.45	8.90	Abbott Architect XR
	U/ml	76.2	61.0	91.4	7.60	15.2	Beckman Access/LXi725
	U/ml	68.8	55.0	82.6	6.90	13.8	Beckman Dxl 600/800
	U/ml	76.2	61.0	91.4	7.60	15.2	Beckman Dxl 9000
	U/ml	18.7	15.0	22.4	1.85	3.70	bioMerieux, VIDAS
	U/ml	26.5	21.2	31.8	2.65	5.30	DiaSorin Liaison XL
	U/ml	14.1	11.3	16.9	1.40	2.80	Immunotech IRMA
	U/ml	27.0	21.6	32.4	2.70	5.40	Izotop RIA
	U/ml	33.0	26.4	39.6	3.30	6.60	J. Mitra CLIA - 181
	U/ml	32.6	26.1	39.1	3.25	6.50	J. Mitra CLIA - 2000
	U/ml	14.7	11.8	17.6	1.45	2.90	Mindray CL 900i/920i/960i/980i
	U/ml	14.8	11.8	17.8	1.50	3.00	Mindray CL series (Excl. CL 900 series)
	U/ml	31.5	25.2	37.8	3.15	6.30	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	21.3	17.0	25.6	2.15	4.30	Roche Cobas 4000/e411
	U/ml	23.6	18.9	28.3	2.35	4.70	Roche Cobas e402/e801
	U/ml	21.1	16.9	25.3	2.10	4.20	Roche Cobas e601/ 602
	U/ml	20.9	16.7	25.1	2.10	4.20	Roche Elecsys
	U/ml	16.4	13.1	19.7	1.65	3.30	Shenzhen YHLO iFlash Series
	U/ml	35.1	28.1	42.1	3.50	7.00	Siemens Atellica IM
U/ml	30.5	24.4	36.6	3.05	6.10	Siemens Centaur	
U/ml	52.8	42.2	63.4	5.30	10.6	Siemens/DPC Immulite 2000/2500	
U/ml	10.7	8.56	12.8	1.05	2.10	Sysmex HISCL Series	
U/ml	27.3	21.8	32.8	2.75	5.50	TOSOH AIA Series	
U/ml	24.7	19.8	29.6	2.45	4.90	Tosoh AIA-CL Series	
Carbamazepine	µg/ml	3.17	2.54	3.80	0.315	0.630	Abbott Alinity (PETINA)
	µmol/l	13.4	10.7	16.1	1.35	2.70	
	µg/ml	3.85	3.08	4.62	0.385	0.770	Abbott Architect (CMIA)
	µmol/l	16.3	13.0	19.6	1.65	3.30	
	µg/ml	3.22	2.58	3.86	0.320	0.640	Abbott Architect (PETINIA)
	µmol/l	13.6	10.9	16.3	1.35	2.70	
	µg/ml	3.48	2.78	4.18	0.350	0.700	Beckman AU Instruments
	µmol/l	14.7	11.8	17.6	1.45	2.90	
µg/ml	3.52	2.82	4.22	0.350	0.700	Roche Cobas 4000/c311	
µmol/l	14.9	11.9	17.9	1.50	3.00		
µg/ml	3.55	2.84	4.26	0.355	0.710	Roche Cobas 6000/8000	
µmol/l	15.0	12.0	18.0	1.50	3.00		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Carbamazepine	µg/ml	2.96	2.37	3.55	0.295	0.590	Siemens/DPC Immulite 2000/2500
	µmol/l	12.5	10.0	15.0	1.25	2.50	
CEA	ng/ml = µg/l	4.86	3.89	5.83	0.485	0.970	Abbott Alinity i
	ng/ml = µg/l	4.96	3.97	5.95	0.495	0.990	Abbott Architect
	ng/ml = µg/l	4.14	3.31	4.97	0.415	0.830	Beckman Access/LXi725
	ng/ml = µg/l	4.08	3.26	4.90	0.410	0.820	Beckman Dxl 600/800
	ng/ml = µg/l	4.14	3.31	4.97	0.415	0.830	Beckman Dxl 9000
	ng/ml = µg/l	4.18	3.34	5.02	0.420	0.840	Beckman/Immunotech IRMA
	ng/ml = µg/l	3.81	3.05	4.57	0.380	0.760	bioMerieux, VIDAS
	ng/ml = µg/l	4.43	3.54	5.32	0.445	0.890	DiaSorin Liaison XL
	ng/ml = µg/l	5.92	4.74	7.10	0.590	1.18	Fujirebio Lumipulse G Series
	ng/ml = µg/l	4.34	3.47	5.21	0.435	0.870	J. Mitra CLIA - 181
	ng/ml = µg/l	5.15	4.12	6.18	0.515	1.03	J. Mitra CLIA - 2000
	ng/ml = µg/l	3.01	2.41	3.61	0.300	0.600	Mindray CL 900i/920i/960i/980i
	ng/ml = µg/l	2.95	2.36	3.54	0.295	0.590	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	4.21	3.37	5.05	0.420	0.840	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml = µg/l	4.25	3.40	5.10	0.425	0.850	Roche Cobas 4000/e411
ng/ml = µg/l	4.17	3.34	5.00	0.415	0.830	Roche Cobas e402/e801	
ng/ml = µg/l	4.15	3.32	4.98	0.415	0.830	Roche Cobas e601/ 602	
ng/ml = µg/l	4.20	3.36	5.04	0.420	0.840	Roche Elecsys	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CEA	ng/ml = µg/l	4.46	3.57	5.35	0.445	0.890	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	4.88	3.90	5.86	0.490	0.980	Siemens Atellica IM
	ng/ml = µg/l	4.68	3.74	5.62	0.470	0.940	Siemens Centaur
	ng/ml = µg/l	5.25	4.20	6.30	0.525	1.05	Siemens/DPC Immulite 2000/2500
	ng/ml = µg/l	4.42	3.54	5.30	0.440	0.880	Sysmex HISCL Series
	ng/ml = µg/l	6.28	5.02	7.54	0.630	1.26	Tosoh
	ng/ml = µg/l	6.35	5.08	7.62	0.635	1.27	Tosoh AIA-CL Series
Cortisol	nmol/l	210	158	262	26.0	52.0	Abbott Alinity i
	µg/dl	7.56	5.67	9.45	0.945	1.89	
	nmol/l	216	162	270	27.0	54.0	Abbott Architect
	µg/dl	7.78	5.84	9.72	0.970	1.94	
	nmol/l	211	158	264	26.5	53.0	Beckman Access/LXi725
	µg/dl	7.60	5.70	9.50	0.950	1.90	
	nmol/l	206	155	257	25.5	51.0	Beckman Dxl 600/800
	µg/dl	7.42	5.57	9.27	0.925	1.85	
	nmol/l	211	158	264	26.5	53.0	Beckman Dxl 9000
	µg/dl	7.60	5.70	9.50	0.950	1.90	
	nmol/l	134	101	167	16.5	33.0	bioMerieux, VIDAS
	µg/dl	4.82	3.62	6.02	0.600	1.20	
	nmol/l	385	289	481	48.0	96.0	DiaSorin Liaison XL
	µg/dl	13.9	10.4	17.4	1.75	3.50	
	nmol/l	363	272	454	45.5	91.0	Immunotech RIA
	µg/dl	13.1	9.83	16.4	1.65	3.30	
nmol/l	15.1	11.3	18.9	1.90	3.80	J. Mitra CLIA - 181	
µg/dl	0.544	0.408	0.680	0.068	0.136		
nmol/l	14.8	11.1	18.5	1.85	3.70	J. Mitra CLIA - 2000	
µg/dl	0.533	0.400	0.666	0.067	0.133		
nmol/l	220	165	275	27.5	55.0	Mindray CL 900i/920i/960i/980i	
µg/dl	7.92	5.94	9.90	0.990	1.98		
nmol/l	223	167	279	28.0	56.0	Mindray CL series (Excl. CL 900 series)	
µg/dl	8.03	6.02	10.0	0.985	1.97		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Cortisol	nmol/l	150	113	187	18.5	37.0	Ortho Vitros 3600/5600/ECi/XT 7600
	µg/dl	5.40	4.05	6.75	0.675	1.35	
	nmol/l	192	144	240	24.0	48.0	Roche Cobas 4000/e411
	µg/dl	6.91	5.18	8.64	0.865	1.73	
	nmol/l	192	144	240	24.0	48.0	Roche Cobas 4000/e411 Gen II
	µg/dl	6.91	5.18	8.64	0.865	1.73	
	nmol/l	188	141	235	23.5	47.0	Roche Cobas e402/e801
	µg/dl	6.77	5.08	8.46	0.845	1.69	
	nmol/l	187	140	234	23.5	47.0	Roche Cobas e402/e801 Gen II
	µg/dl	6.73	5.05	8.41	0.840	1.68	
	nmol/l	193	145	241	24.0	48.0	Roche Cobas e601/ 602
	µg/dl	6.95	5.21	8.69	0.870	1.74	
	nmol/l	191	143	239	24.0	48.0	Roche Cobas e601/602 Gen II
	µg/dl	6.88	5.16	8.60	0.860	1.72	
	nmol/l	186	140	232	23.0	46.0	Roche Elecsys
	µg/dl	6.70	5.03	8.37	0.835	1.67	
	nmol/l	124	93.0	155	15.5	31.0	Shenzhen YHLO iFlash Series
	µg/dl	4.46	3.35	5.57	0.555	1.11	
	nmol/l	200	150	250	25.0	50.0	Siemens Atellica IM
	µg/dl	7.20	5.40	9.00	0.900	1.80	
nmol/l	197	148	246	24.5	49.0	Siemens Centaur	
µg/dl	7.09	5.32	8.86	0.885	1.77		
nmol/l	205	154	256	25.5	51.0	Siemens/DPC Immulite 1000	
µg/dl	7.38	5.54	9.22	0.920	1.84		
nmol/l	194	146	242	24.0	48.0	Siemens/DPC Immulite 2000/2500	
µg/dl	6.98	5.24	8.72	0.870	1.74		
nmol/l	201	151	251	25.0	50.0	TOSOH AIA Series	
µg/dl	7.24	5.43	9.05	0.905	1.81		
nmol/l	195	146	244	24.5	49.0	Tosoh AIA-CL Series	
µg/dl	7.02	5.27	8.77	0.875	1.75		
DHEA-S	µmol/l	2.91	2.33	3.49	0.290	0.580	Abbott Alinity i
	µmol/l	2.92	2.34	3.50	0.290	0.580	Abbott Architect
	µmol/l	3.30	2.64	3.96	0.330	0.660	Beckman Access/LXi725
	µmol/l	3.19	2.55	3.83	0.320	0.640	Beckman Dxl 600/800
	µmol/l	3.30	2.64	3.96	0.330	0.660	Beckman Dxl 9000
	µmol/l	2.66	2.13	3.19	0.265	0.530	DiaSorin Liaison
	µmol/l	2.77	2.22	3.32	0.275	0.550	DiaSorin Liaison XL
	µmol/l	3.13	2.50	3.76	0.315	0.630	Mindray CL series (Excl. CL 900 series)
µmol/l	3.64	2.91	4.37	0.365	0.730	Roche Cobas 4000/e411	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
DHEA-S	µmol/l	3.56	2.85	4.27	0.355	0.710	Roche Cobas e402/e801
	µmol/l	3.64	2.91	4.37	0.365	0.730	Roche Cobas e601/ 602
	µmol/l	3.79	3.03	4.55	0.380	0.760	Roche Elecsys
	µmol/l	2.84	2.27	3.41	0.285	0.570	Shenzhen YHLO iFlash Series
	µmol/l	2.88	2.30	3.46	0.290	0.580	Siemens Atellica IM
	µmol/l	2.77	2.22	3.32	0.275	0.550	Siemens Centaur
	µmol/l	2.35	1.88	2.82	0.235	0.470	Siemens/DPC Immulite 1000
	µmol/l	2.59	2.07	3.11	0.260	0.520	Siemens/DPC Immulite 2000/2500
	µmol/l	3.37	2.70	4.04	0.335	0.670	TOSOH AIA Series
Digoxin	µmol/l	3.51	2.81	4.21	0.350	0.700	Tosoh AIA-CL Series
	ng/ml	0.594	0.475	0.713	0.060	0.119	Abbott Alinity (CMIA)
	nmol/l	0.761	0.609	0.913	0.076	0.152	
	ng/ml	0.570	0.456	0.684	0.057	0.114	Abbott Alinity (PETINA)
	nmol/l	0.730	0.584	0.876	0.073	0.146	
	ng/ml	0.400	0.320	0.480	0.040	0.080	Abbott Architect (CMIA)
	nmol/l	0.512	0.410	0.614	0.051	0.102	
	ng/ml	0.574	0.459	0.689	0.058	0.115	Abbott Architect (PETINIA)
	nmol/l	0.735	0.588	0.882	0.074	0.147	
	ng/ml	0.610	0.488	0.732	0.061	0.122	Beckman AU Instruments
	nmol/l	0.781	0.625	0.937	0.078	0.156	
	ng/ml	0.551	0.441	0.661	0.055	0.110	Beckman Dxl 600/800
	nmol/l	0.705	0.564	0.846	0.071	0.141	
	ng/ml	0.616	0.493	0.739	0.062	0.123	Roche Cobas 4000/e411
	nmol/l	0.789	0.631	0.947	0.079	0.158	
	ng/ml	0.601	0.481	0.721	0.060	0.120	Roche Cobas C303/501/502/503/701
	nmol/l	0.769	0.615	0.923	0.077	0.154	
	ng/ml	0.640	0.512	0.768	0.064	0.128	Roche Cobas e402/e801
	nmol/l	0.819	0.655	0.983	0.082	0.164	
	ng/ml	0.563	0.450	0.676	0.057	0.113	Roche Cobas e601/602
nmol/l	0.721	0.577	0.865	0.072	0.144		
ng/ml	0.298	0.238	0.358	0.030	0.060	Siemens Atellica CH	
nmol/l	0.381	0.305	0.457	0.038	0.076		
ng/ml	0.740	0.592	0.888	0.074	0.148	Siemens Atellica IM	
nmol/l	0.948	0.758	1.14	0.096	0.192		
Ferritin	ng/ml = µg/l	8.77	7.02	10.5	0.865	1.73	Abbott Alinity i
	ng/ml = µg/l	8.86	7.09	10.6	0.870	1.74	Abbott Architect Chemilum

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Ferritin	ng/ml = µg/l	8.81	7.05	10.6	0.895	1.79	Abbott Architect Quantia
	ng/ml = µg/l	5.23	4.18	6.28	0.525	1.05	Beckman Access/LXi725
	ng/ml = µg/l	5.12	4.10	6.14	0.510	1.02	Beckman Dxl 600/800
	ng/ml = µg/l	5.23	4.18	6.28	0.525	1.05	Beckman Dxl 9000
	ng/ml = µg/l	6.45	5.16	7.74	0.645	1.29	bioMerieux, VIDAS
	ng/ml = µg/l	8.35	6.68	10.0	0.825	1.65	DiaSorin Liaison XL
	ng/ml = µg/l	9.36	7.49	11.2	0.920	1.84	J. Mitra CLIA - 181
	ng/ml = µg/l	9.23	7.38	11.1	0.935	1.87	J. Mitra CLIA - 2000
	ng/ml = µg/l	11.4	9.12	13.7	1.15	2.30	Lifotronic eCL
	ng/ml = µg/l	7.09	5.67	8.51	0.710	1.42	Mindray CL 900i/920i/960i/980i
	ng/ml = µg/l	6.86	5.49	8.23	0.685	1.37	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	7.03	5.62	8.44	0.705	1.41	Ortho Vitros 3600/5600/ECi/XT/7600
	ng/ml = µg/l	10.2	8.16	12.2	1.00	2.00	Roche Cobas 4000/c311
	ng/ml = µg/l	9.45	7.56	11.3	0.925	1.85	Roche Cobas C303/501/502/503/701/702
	ng/ml = µg/l	9.32	7.46	11.2	0.940	1.88	Roche Cobas e402/e801
	ng/ml = µg/l	9.76	7.81	11.7	0.970	1.94	Roche Elecsys / Cobas e411
	ng/ml = µg/l	9.92	7.94	11.9	0.990	1.98	Roche Modular E170 /Cobas e601/602
ng/ml = µg/l	8.08	6.46	9.70	0.810	1.62	Shenzhen YHLO iFlash Series	
ng/ml = µg/l	7.02	5.62	8.42	0.700	1.40	Siemens Atellica IM	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Ferritin	ng/ml = µg/l	6.95	5.56	8.34	0.695	1.39	Siemens Centaur
	ng/ml = µg/l	9.73	7.78	11.7	0.985	1.97	Siemens Dimension
	ng/ml = µg/l	7.09	5.67	8.51	0.710	1.42	Siemens/DPC Immulite 2000/2500
	ng/ml = µg/l	5.31	4.25	6.37	0.530	1.06	TOSOH AIA Series
	ng/ml = µg/l	6.40	5.12	7.68	0.640	1.28	Tosoh AIA-CL Series
Folate	ng/ml	3.01	2.29	3.73	0.360	0.720	Abbott Alinity i
	nmol/l	6.82	5.18	8.46	0.820	1.64	
	ng/ml	2.97	2.26	3.68	0.355	0.710	Abbott Architect
	nmol/l	6.73	5.11	8.35	0.810	1.62	
	ng/ml	2.97	2.26	3.68	0.355	0.710	Beckman Access/LXi725
	nmol/l	6.74	5.12	8.36	0.810	1.62	
	ng/ml	2.81	2.14	3.48	0.335	0.670	Beckman Dxl 600/800 - A14208
	nmol/l	6.38	4.85	7.91	0.765	1.53	
	ng/ml	2.89	2.20	3.58	0.345	0.690	Beckman Dxl 600/800 - A98032
	nmol/l	6.55	4.98	8.12	0.785	1.57	
	ng/ml	2.97	2.49	3.45	0.240	0.480	Beckman Dxl 9000
	nmol/l	6.74	5.66	7.82	0.540	1.08	
	ng/ml	4.90	3.72	6.08	0.590	1.18	Lifotronic eCL
	nmol/l	11.1	8.44	13.8	1.35	2.70	
	ng/ml	6.00	4.56	7.44	0.720	1.44	Mindray CL series (Excl. CL 900 series)
	nmol/l	13.6	10.3	16.9	1.65	3.30	
	ng/ml	2.15	1.63	2.67	0.260	0.520	Ortho Vitros 3600/5600/ECi/XT/7600
	nmol/l	4.87	3.70	6.04	0.585	1.17	
	ng/ml	2.48	1.88	3.08	0.300	0.600	Roche e402/e801
	nmol/l	5.63	4.28	6.98	0.675	1.35	
ng/ml	13.2	10.0	16.4	1.60	3.20	Shenzhen YHLO iFlash Series	
nmol/l	30.0	22.8	37.2	3.60	7.20		
ng/ml	7.63	5.80	9.46	0.915	1.83	Siemens Atellica IM	
nmol/l	17.3	13.1	21.5	2.10	4.20		
ng/ml	8.64	6.57	10.7	1.03	2.06	Siemens Centaur (enhanced)	
nmol/l	19.6	14.9	24.3	2.35	4.70		
ng/ml	1.29	0.980	1.60	0.155	0.310	Siemens Dimension	
nmol/l	2.92	2.22	3.62	0.350	0.700		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Folate	ng/ml	2.20	1.67	2.73	0.265	0.530	Siemens/DPC Immulite 2000
	nmol/l	5.00	3.80	6.20	0.600	1.20	
	ng/ml	10.2	7.75	12.7	1.25	2.50	Tosoh AIA-CL Series
	nmol/l	23.1	17.6	28.6	2.75	5.50	
Free T3	ng/dl	0.532	0.399	0.665	0.067	0.133	Abbott Alinity, 2 point cal
	pg/ml	5.33	4.00	6.66	0.665	1.33	
	pmol/l	8.18	6.14	10.2	1.01	2.02	
	ng/dl	0.540	0.405	0.675	0.068	0.135	Abbott Alinity, 6 point cal
	pg/ml	5.40	4.05	6.75	0.675	1.35	
	pmol/l	8.30	6.23	10.4	1.05	2.10	
	ng/dl	0.520	0.390	0.650	0.065	0.130	Abbott Architect, 2 point cal
	pg/ml	5.21	3.91	6.51	0.650	1.30	
	pmol/l	8.00	6.00	10.0	1.00	2.00	
	ng/dl	0.515	0.386	0.644	0.065	0.129	Abbott Architect, 6 point cal
	pg/ml	5.16	3.87	6.45	0.645	1.29	
	pmol/l	7.93	5.95	9.91	0.990	1.98	
	ng/dl	0.562	0.422	0.702	0.070	0.140	Beckman Access/LXi725
	pg/ml	5.62	4.22	7.02	0.700	1.40	
	pmol/l	8.64	6.48	10.8	1.08	2.16	
	ng/dl	0.528	0.396	0.660	0.066	0.132	Beckman Dxl 600/800
	pg/ml	5.29	3.97	6.61	0.660	1.32	
	pmol/l	8.13	6.10	10.2	1.04	2.07	
	ng/dl	0.562	0.422	0.702	0.070	0.140	Beckman Dxl 9000
	pg/ml	5.62	4.22	7.02	0.700	1.40	
	pmol/l	8.64	6.48	10.8	1.08	2.16	
	ng/dl	0.595	0.446	0.744	0.075	0.149	BioMerieux VIDAS
	pg/ml	5.96	4.47	7.45	0.745	1.49	
	pmol/l	9.15	6.86	11.4	1.13	2.25	
ng/dl	0.592	0.444	0.740	0.074	0.148	DiaSorin Liaison XL	
pg/ml	5.92	4.44	7.40	0.740	1.48		
pmol/l	9.10	6.83	11.4	1.15	2.30		
ng/dl	0.683	0.512	0.854	0.086	0.171	Fujirebio Lumipulse G Series	
pg/ml	6.84	5.13	8.55	0.855	1.71		
pmol/l	10.5	7.88	13.1	1.30	2.60		
ng/dl	0.546	0.410	0.682	0.068	0.136	J. Mitra CLIA - 181	
pg/ml	5.47	4.10	6.84	0.685	1.37		
pmol/l	8.40	6.30	10.5	1.05	2.10		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T3	ng/dl	0.547	0.410	0.684	0.069	0.137	J. Mitra CLIA - 2000
	pg/ml	5.48	4.11	6.85	0.685	1.37	
	pmol/l	8.42	6.32	10.5	1.04	2.08	
	ng/dl	0.508	0.381	0.635	0.064	0.127	Lifotronic eCL
	pg/ml	5.08	3.81	6.35	0.635	1.27	
	pmol/l	7.81	5.86	9.76	0.975	1.95	
	ng/dl	0.630	0.473	0.787	0.079	0.157	Mindray CL 8/6/2/12/1000i Ref: FT3 11X
	pg/ml	6.31	4.73	7.89	0.790	1.58	
	pmol/l	9.69	7.27	12.1	1.21	2.41	
	ng/dl	0.624	0.468	0.780	0.078	0.156	Mindray CL 900i Ref: FT3 11X
	pg/ml	6.25	4.69	7.81	0.780	1.56	
	pmol/l	9.60	7.20	12.0	1.20	2.40	
	ng/dl	1.23	0.923	1.54	0.155	0.310	Ortho Vitros 3600/5600/ECi/XT 7600
	pg/ml	12.3	9.23	15.4	1.55	3.10	
	pmol/l	18.9	14.2	23.6	2.35	4.70	
	ng/dl	0.696	0.522	0.870	0.087	0.174	Roche Cobas 4000/e411
	pg/ml	6.97	5.23	8.71	0.870	1.74	
	pmol/l	10.7	8.03	13.4	1.35	2.70	
	ng/dl	0.683	0.512	0.854	0.086	0.171	Roche Cobas e402/e801
	pg/ml	6.84	5.13	8.55	0.855	1.71	
	pmol/l	10.5	7.88	13.1	1.30	2.60	
	ng/dl	0.696	0.522	0.870	0.087	0.174	Roche Cobas e601/ 602
	pg/ml	6.97	5.23	8.71	0.870	1.74	
	pmol/l	10.7	8.03	13.4	1.35	2.70	
ng/dl	0.689	0.517	0.861	0.086	0.172	Roche Elecsys	
pg/ml	6.90	5.18	8.62	0.860	1.72		
pmol/l	10.6	7.95	13.3	1.35	2.70		
ng/dl	0.547	0.410	0.684	0.069	0.137	Shenzhen YHLO iFlash Series	
pg/ml	5.47	4.10	6.84	0.685	1.37		
pmol/l	8.41	6.31	10.5	1.05	2.09		
ng/dl	0.754	0.566	0.942	0.094	0.188	Siemens Atellica IM	
pg/ml	7.55	5.66	9.44	0.945	1.89		
pmol/l	11.6	8.70	14.5	1.45	2.90		
ng/dl	0.676	0.507	0.845	0.085	0.169	Siemens Centaur	
pg/ml	6.77	5.08	8.46	0.845	1.69		
pmol/l	10.4	7.80	13.0	1.30	2.60		
ng/dl	0.670	0.503	0.837	0.084	0.167	Siemens Dimension Exl LOCI	
pg/ml	6.71	5.03	8.39	0.840	1.68		
pmol/l	10.3	7.73	12.9	1.30	2.60		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)						
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28								
Size: 12 x 5 ml / 4 x 5 ml		Range						
Analyte	Unit	Target	Low	High	1SD	2SD	Method	
Free T3	ng/dl	0.463	0.347	0.579	0.058	0.116	Siemens/DPC Immulite 2000/2500	
	pg/ml	4.64	3.48	5.80	0.580	1.16		
	pmol/l	7.13	5.35	8.91	0.890	1.78		
	ng/dl	0.599	0.449	0.749	0.075	0.150	Sysyx HISCL Series	
	pg/ml	6.00	4.50	7.50	0.750	1.50		
	pmol/l	9.21	6.91	11.5	1.15	2.29		
	ng/dl	0.696	0.522	0.870	0.087	0.174	TOSOH AIA Series	
	pg/ml	6.97	5.23	8.71	0.870	1.74		
	pmol/l	10.7	8.03	13.4	1.35	2.70		
	ng/dl	0.586	0.440	0.732	0.073	0.146	Tosoh AIA-CL Series	
	pg/ml	5.87	4.40	7.34	0.735	1.47		
	pmol/l	9.02	6.77	11.3	1.14	2.28		
	Free T4	ng/dl	0.944	0.708	1.18	0.118	0.236	Abbott Alinity i
		pg/ml	9.44	7.08	11.8	1.18	2.36	
		pmol/l	12.1	9.08	15.1	1.50	3.00	
ng/dl		0.952	0.714	1.19	0.119	0.238	Abbott Architect	
pg/ml		9.52	7.14	11.9	1.19	2.38		
pmol/l		12.2	9.15	15.3	1.55	3.10		
ng/dl		0.944	0.708	1.18	0.118	0.236	Beckman Access/LXi725	
pg/ml		9.44	7.08	11.8	1.18	2.36		
pmol/l		12.1	9.08	15.1	1.50	3.00		
ng/dl		0.920	0.690	1.15	0.115	0.230	Beckman Dxl 600/800	
pg/ml		9.20	6.90	11.5	1.15	2.30		
pmol/l		11.8	8.85	14.8	1.50	3.00		
ng/dl		0.944	0.708	1.18	0.118	0.236	Beckman Dxl 9000	
pg/ml		9.44	7.08	11.8	1.18	2.36		
pmol/l		12.1	9.08	15.1	1.50	3.00		
ng/dl		1.27	0.953	1.59	0.160	0.320	bioMerieux, VIDAS-FT4N Kit	
pg/ml		12.7	9.53	15.9	1.60	3.20		
pmol/l		16.3	12.2	20.4	2.05	4.10		
ng/dl		1.29	0.968	1.61	0.160	0.320	bioMerieux, VIDIA	
pg/ml		12.9	9.68	16.1	1.60	3.20		
pmol/l		16.6	12.5	20.7	2.05	4.10		
ng/dl		1.36	1.02	1.70	0.170	0.340	DiaSorin Liaison	
pg/ml		13.6	10.2	17.0	1.70	3.40		
pmol/l		17.4	13.1	21.7	2.15	4.30		
ng/dl	1.43	1.07	1.79	0.180	0.360	DiaSorin Liaison XL		
pg/ml	14.3	10.7	17.9	1.80	3.60			
pmol/l	18.3	13.7	22.9	2.30	4.60			

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T4	ng/dl	0.667	0.500	0.834	0.084	0.167	Fujirebio Lumipulse G Series
	pg/ml	6.67	5.00	8.34	0.835	1.67	
	pmol/l	8.55	6.41	10.7	1.08	2.15	
	ng/dl	1.01	0.758	1.26	0.125	0.250	Immunotech RIA
	pg/ml	10.1	7.58	12.6	1.25	2.50	
	pmol/l	12.9	9.68	16.1	1.60	3.20	
	ng/dl	1.19	0.893	1.49	0.150	0.300	J. Mitra CLIA - 181
	pg/ml	11.9	8.93	14.9	1.50	3.00	
	pmol/l	15.2	11.4	19.0	1.90	3.80	
	ng/dl	1.20	0.900	1.50	0.150	0.300	J. Mitra CLIA - 2000
	pg/ml	12.0	9.00	15.0	1.50	3.00	
	pmol/l	15.4	11.6	19.2	1.90	3.80	
	ng/dl	0.763	0.572	0.954	0.096	0.191	Lifotronic eCL
	pg/ml	7.63	5.72	9.54	0.955	1.91	
	pmol/l	9.78	7.34	12.2	1.21	2.42	
	ng/dl	0.920	0.690	1.15	0.115	0.230	Maccura I Series
	pg/ml	9.20	6.90	11.5	1.15	2.30	
	pmol/l	11.8	8.85	14.8	1.50	3.00	
	ng/dl	1.41	1.06	1.76	0.175	0.350	Mindray CL 8/6/2/12/1000i Ref: FT4 11X
	pg/ml	14.1	10.6	17.6	1.75	3.50	
	pmol/l	18.1	13.6	22.6	2.25	4.50	
	ng/dl	1.33	0.998	1.66	0.165	0.330	Mindray CL 900i Ref: FT4 11X
	pg/ml	13.3	9.98	16.6	1.65	3.30	
	pmol/l	17.0	12.8	21.2	2.10	4.20	
ng/dl	2.08	1.56	2.60	0.260	0.520	Ortho Vitros 3600/5600/ECi/XT/7600	
pg/ml	20.8	15.6	26.0	2.60	5.20		
pmol/l	26.7	20.0	33.4	3.35	6.70		
ng/dl	1.27	0.953	1.59	0.160	0.320	Roche Cobas 4000/e411	
pg/ml	12.7	9.53	15.9	1.60	3.20		
pmol/l	16.3	12.2	20.4	2.05	4.10		
ng/dl	1.27	0.953	1.59	0.160	0.320	Roche Cobas e402/e801	
pg/ml	12.7	9.53	15.9	1.60	3.20		
pmol/l	16.3	12.2	20.4	2.05	4.10		
ng/dl	1.26	0.945	1.58	0.160	0.320	Roche Cobas e601/ 602	
pg/ml	12.6	9.45	15.8	1.60	3.20		
pmol/l	16.2	12.2	20.2	2.00	4.00		
ng/dl	1.28	0.960	1.60	0.160	0.320	Roche Elecsys	
pg/ml	12.8	9.60	16.0	1.60	3.20		
pmol/l	16.4	12.3	20.5	2.05	4.10		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T4	ng/dl	0.952	0.714	1.19	0.119	0.238	Shenzhen YHLO iFlash Series
	pg/ml	9.52	7.14	11.9	1.19	2.38	
	pmol/l	12.2	9.15	15.3	1.55	3.10	
	ng/dl	0.936	0.702	1.17	0.117	0.234	Siemens Atellica IM
	pg/ml	9.36	7.02	11.7	1.17	2.34	
	pmol/l	12.0	9.00	15.0	1.50	3.00	
	ng/dl	0.897	0.673	1.12	0.112	0.223	Siemens Centaur
	pg/ml	8.97	6.73	11.2	1.12	2.23	
	pmol/l	11.5	8.63	14.4	1.45	2.90	
	ng/dl	0.975	0.731	1.22	0.123	0.245	Siemens Dimension Exl LOCI
	pg/ml	9.75	7.31	12.2	1.23	2.45	
	pmol/l	12.5	9.38	15.6	1.55	3.10	
	ng/dl	1.31	0.983	1.64	0.165	0.330	Siemens/DPC Immulite 1000
	pg/ml	13.1	9.83	16.4	1.65	3.30	
	pmol/l	16.8	12.6	21.0	2.10	4.20	
	ng/dl	1.31	0.983	1.64	0.165	0.330	Siemens/DPC Immulite 2000/2500
	pg/ml	13.1	9.83	16.4	1.65	3.30	
	pmol/l	16.8	12.6	21.0	2.10	4.20	
	ng/dl	1.11	0.833	1.39	0.140	0.280	Sysmex HISCL Series
	pg/ml	11.1	8.33	13.9	1.40	2.80	
	pmol/l	14.2	10.7	17.7	1.75	3.50	
	ng/dl	0.952	0.714	1.19	0.119	0.238	TOSOH AIA Series
	pg/ml	9.52	7.14	11.9	1.19	2.38	
	pmol/l	12.2	9.15	15.3	1.55	3.10	
ng/dl	1.15	0.863	1.44	0.145	0.290	Tosoh AIA-CL Series	
pg/ml	11.5	8.63	14.4	1.45	2.90		
pmol/l	14.8	11.1	18.5	1.85	3.70		
FSH	mU/ml	6.58	5.26	7.90	0.660	1.32	Abbott Alinity i
	mU/ml	6.41	5.13	7.69	0.640	1.28	Abbott Architect
	mU/ml	7.34	5.87	8.81	0.735	1.47	Beckman Access/LXi725
	mU/ml	7.37	5.90	8.84	0.735	1.47	Beckman Dxl 600/800
	mU/ml	7.34	5.87	8.81	0.735	1.47	Beckman Dxl 9000
	mU/ml	8.95	7.16	10.7	0.875	1.75	bioMerieux, VIDAS
	mU/ml	11.3	9.04	13.6	1.15	2.30	DiaSorin Liaison
	mU/ml	12.2	9.76	14.6	1.20	2.40	DiaSorin Liaison XL
	mU/ml	8.97	7.18	10.8	0.915	1.83	Fineware
	mU/ml	6.24	4.99	7.49	0.625	1.25	J. Mitra CLIA - 181
	mU/ml	6.12	4.90	7.34	0.610	1.22	J. Mitra CLIA - 2000
	mU/ml	7.37	5.90	8.84	0.735	1.47	Lifotronic eCL

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
FSH	mU/ml	7.45	5.96	8.94	0.745	1.49	Maccura I Series
	mU/ml	7.57	6.06	9.08	0.755	1.51	Mindray CL 8/6/2/12/1000i <= Lot 231101
	mU/ml	5.87	4.70	7.04	0.585	1.17	Ortho Vitros 3600/5600/ECi/XT/7600
	mU/ml	7.53	6.02	9.04	0.755	1.51	Roche Cobas 4000/e411
	mU/ml	7.11	5.69	8.53	0.710	1.42	Roche Cobas e402/e801
	mU/ml	7.02	5.62	8.42	0.700	1.40	Roche Cobas e601/602
	mU/ml	7.16	5.73	8.59	0.715	1.43	Roche Elecsys
	mU/ml	7.01	5.61	8.41	0.700	1.40	Shenzhen YHLO iFlash Series
	mU/ml	7.45	5.96	8.94	0.745	1.49	Siemens Atellica IM
	mU/ml	7.89	6.31	9.47	0.790	1.58	Siemens Centaur
	mU/ml	7.35	5.88	8.82	0.735	1.47	Siemens/DPC Immulite 2000/2500
	mU/ml	8.64	6.91	10.4	0.880	1.76	TOSOH AIA Series
	mU/ml	8.80	7.04	10.6	0.900	1.80	Tosoh AIA-CL Series
Gentamicin	µg/ml	1.36	1.09	1.63	0.135	0.270	Abbott Alinity (PETINA)
	µmol/l	2.85	2.28	3.42	0.285	0.570	
	µg/ml	1.19	0.952	1.43	0.120	0.240	Abbott Architect (CMIA)
	µmol/l	2.48	1.98	2.98	0.250	0.500	
	µg/ml	1.10	0.880	1.32	0.110	0.220	Cobas c501/502/701/702/311 KIMS
	µmol/l	2.30	1.84	2.76	0.230	0.460	
Growth Hormone (GH)	µg/ml	1.08	0.864	1.30	0.110	0.220	Siemens Atellica CH
	µmol/l	2.25	1.80	2.70	0.225	0.450	
	ng/ml	1.20	0.960	1.44	0.120	0.240	Beckman Access/LXi725
	µU/ml	3.60	2.88	4.32	0.360	0.720	
	ng/ml	1.10	0.880	1.32	0.110	0.220	Beckman Dxl 600/800
	µU/ml	3.30	2.64	3.96	0.330	0.660	
	ng/ml	1.20	0.960	1.44	0.120	0.240	Beckman Dxl 9000
	µU/ml	3.60	2.88	4.32	0.360	0.720	
	ng/ml	1.14	0.912	1.37	0.115	0.230	Beckman/Immunotech IRMA
	µU/ml	3.43	2.74	4.12	0.345	0.690	
	ng/ml	1.17	0.936	1.40	0.115	0.230	DiaSorin Liaison XL
	µU/ml	3.50	2.80	4.20	0.350	0.700	
	ng/ml	1.60	1.28	1.92	0.160	0.320	J. Mitra CLIA - 181
	µU/ml	4.80	3.84	5.76	0.480	0.960	
	ng/ml	1.60	1.28	1.92	0.160	0.320	J. Mitra CLIA - 2000
	µU/ml	4.80	3.84	5.76	0.480	0.960	
ng/ml	1.66	1.33	1.99	0.165	0.330	Roche Cobas 4000/e411	
µU/ml	4.97	3.98	5.96	0.495	0.990		
ng/ml	1.63	1.30	1.96	0.165	0.330	Roche Cobas e402/e801	
µU/ml	4.89	3.91	5.87	0.490	0.980		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Growth Hormone (GH)	ng/ml	1.60	1.28	1.92	0.160	0.320	Roche Cobas e601/ 602
	µU/ml	4.81	3.85	5.77	0.480	0.960	
	ng/ml	1.59	1.27	1.91	0.160	0.320	Siemens/DPC Immulite 2000/2500
	µU/ml	4.76	3.81	5.71	0.475	0.950	
	ng/ml	1.14	0.912	1.37	0.115	0.230	Tosoh AIA-CL Series
	µU/ml	3.43	2.74	4.12	0.345	0.690	
Immunoglobulin E	KIU/I = IU/ml	232	186	278	23.0	46.0	Abbott Alinity
	KIU/I = IU/ml	227	182	272	22.5	45.0	Abbott Architect
	KIU/I = IU/ml	228	182	274	23.0	46.0	Beckman AU analysers
	KIU/I = IU/ml	206	165	247	20.5	41.0	bioMerieux, VIDAS
	KIU/I = IU/ml	222	178	266	22.0	44.0	Boditech Med Inc i-CHROMA
	KIU/I = IU/ml	257	206	308	25.5	51.0	J. Mitra CLIA - 181
	KIU/I = IU/ml	252	202	302	25.0	50.0	J. Mitra CLIA - 2000
	KIU/I = IU/ml	206	165	247	20.5	41.0	Phadia Immucap instruments
	KIU/I = IU/ml	241	193	289	24.0	48.0	Roche Cobas 4000/e411
	KIU/I = IU/ml	233	186	280	23.5	47.0	Roche Cobas e402/e801
	KIU/I = IU/ml	231	185	277	23.0	46.0	Roche Cobas e601/ 602

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Immunoglobulin E	KIU/l = IU/ml	234	187	281	23.5	47.0	Roche Elecsys
	KIU/l = IU/ml	235	188	282	23.5	47.0	Siemens Atellica IM
	KIU/l = IU/ml	233	186	280	23.5	47.0	Siemens Centaur
	KIU/l = IU/ml	266	213	319	26.5	53.0	Siemens/DPC Immulite 1000
	KIU/l = IU/ml	228	182	274	23.0	46.0	Siemens/DPC Immulite 2000/2500
	KIU/l = IU/ml	211	169	253	21.0	42.0	Tosoh
	KIU/l = IU/ml	196	157	235	19.5	39.0	Tosoh AIA-CL Series
Insulin	mU/l	1.68	1.26	2.10	0.210	0.420	Abbott Alinity i
	µU/ml	1.68	1.26	2.10	0.210	0.420	
	mU/l	1.72	1.29	2.15	0.215	0.430	Abbott Architect
	µU/ml	1.72	1.29	2.15	0.215	0.430	
	mU/l	1.62	1.22	2.02	0.200	0.400	Beckman Access/LXi725
	µU/ml	1.62	1.22	2.02	0.200	0.400	
	mU/l	1.56	1.17	1.95	0.195	0.390	Beckman Dxl 600/800
	µU/ml	1.56	1.17	1.95	0.195	0.390	
	mU/l	1.62	1.30	1.94	0.160	0.320	Beckman Dxl 9000
	µU/ml	1.62	1.30	1.94	0.160	0.320	
	mU/l	2.48	1.86	3.10	0.310	0.620	DiaSorin Liaison XL
	µU/ml	2.48	1.86	3.10	0.310	0.620	
	mU/l	2.00	1.60	2.40	0.200	0.400	J. Mitra CLIA - 181
	µU/ml	2.00	1.60	2.40	0.200	0.400	
	mU/l	1.99	1.59	2.39	0.200	0.400	J. Mitra CLIA - 2000
	µU/ml	1.99	1.59	2.39	0.200	0.400	
mU/l	1.85	1.39	2.31	0.230	0.460	Lifotronic eCL	
µU/ml	1.85	1.39	2.31	0.230	0.460		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Insulin	mU/l	2.49	1.87	3.11	0.310	0.620	Mindray CL series (Excl. CL 900 series)
	µU/ml	2.49	1.87	3.11	0.310	0.620	
	mU/l	1.55	1.16	1.94	0.195	0.390	Ortho Vitros 3600/5600/ECi/XT 7600
	µU/ml	1.55	1.16	1.94	0.195	0.390	
	mU/l	1.92	1.44	2.40	0.240	0.480	Roche Cobas 4000/e411
	µU/ml	1.92	1.44	2.40	0.240	0.480	
	mU/l	1.84	1.38	2.30	0.230	0.460	Roche Cobas 6000/8000
	µU/ml	1.84	1.38	2.30	0.230	0.460	
	mU/l	1.93	1.45	2.41	0.240	0.480	Roche Elecsys
	µU/ml	1.93	1.45	2.41	0.240	0.480	
	mU/l	2.66	2.13	3.19	0.265	0.530	Shenzhen YHLO iFlash Series
	µU/ml	2.66	2.13	3.19	0.265	0.530	
	mU/l	2.00	1.50	2.50	0.250	0.500	Siemens Atellica IM
	µU/ml	2.00	1.50	2.50	0.250	0.500	
	mU/l	2.27	1.70	2.84	0.285	0.570	Siemens Centaur XP/Classic
	µU/ml	2.27	1.70	2.84	0.285	0.570	
	mU/l	16.5	12.4	20.6	2.05	4.10	Siemens/DPC Immulite 2000
	µU/ml	16.5	12.4	20.6	2.05	4.10	
	mU/l	2.21	1.77	2.65	0.220	0.440	TOSOH AIA Series
	µU/ml	2.21	1.77	2.65	0.220	0.440	
mU/l	2.13	1.70	2.56	0.215	0.430	Tosoh AIA-CL Series	
µU/ml	2.13	1.70	2.56	0.215	0.430		
Luteinising Hormone (LH)	mU/ml	2.09	1.67	2.51	0.210	0.420	Abbott Alinity i
	mU/ml	2.10	1.68	2.52	0.210	0.420	Abbott Architect
	mU/ml	2.53	2.02	3.04	0.255	0.510	Beckman Access/LXi725
	mU/ml	2.45	1.96	2.94	0.245	0.490	Beckman Dxl 600/800
	mU/ml	2.53	2.02	3.04	0.255	0.510	Beckman Dxl 9000
	mU/ml	3.01	2.41	3.61	0.300	0.600	bioMerieux, VIDAS
	mU/ml	4.55	3.64	5.46	0.455	0.910	DiaSorin Liaison XL
	mU/ml	6.40	5.12	7.68	0.640	1.28	Fineware
	mU/ml	3.81	3.05	4.57	0.380	0.760	J. Mitra CLIA - 181
	mU/ml	3.51	2.81	4.21	0.350	0.700	J. Mitra CLIA - 2000
	mU/ml	2.88	2.30	3.46	0.290	0.580	Maccura I Series
	mU/ml	3.70	2.96	4.44	0.370	0.740	Mindray CL series (Excl. CL 900 series)
	mU/ml	3.85	3.08	4.62	0.385	0.770	Ortho Vitros 3600/5600/ECi/XT 7600
	mU/ml	3.68	2.94	4.42	0.370	0.740	Roche Cobas 4000/e411
	mU/ml	3.64	2.91	4.37	0.365	0.730	Roche Cobas e402/e801
	mU/ml	3.71	2.97	4.45	0.370	0.740	Roche Cobas e601/ 602
	mU/ml	3.71	2.97	4.45	0.370	0.740	Roche Elecsys

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Luteinising Hormone (LH)	mU/ml	2.62	2.10	3.14	0.260	0.520	Siemens Atellica IM
	mU/ml	2.52	2.02	3.02	0.250	0.500	Siemens Centaur
	mU/ml	4.59	3.67	5.51	0.460	0.920	Siemens/DPC Immulite 2000
	mU/ml	2.65	2.12	3.18	0.265	0.530	TOSOH AIA Series
	mU/ml	2.27	1.82	2.72	0.225	0.450	Tosoh AIA-CL Series
Oestradiol	pg/ml	35.1	28.1	42.1	3.50	7.00	Abbott Alinity i
	pmol/l	129	103	155	13.0	26.0	
	pg/ml	37.5	30.0	45.0	3.75	7.50	Abbott Architect
	pmol/l	138	110	166	14.0	28.0	
	pg/ml	28.6	22.9	34.3	2.85	5.70	Beckman Access/LXi725
	pmol/l	105	84.0	126	10.5	21.0	
	pg/ml	29.6	23.7	35.5	2.95	5.90	Beckman Access/LXi725 Sensitive B84493
	pmol/l	109	87.2	131	11.0	22.0	
	pg/ml	26.5	21.2	31.8	2.65	5.30	Beckman Dxl 600/800
	pmol/l	97.6	78.1	117	9.70	19.4	
	pg/ml	26.9	21.5	32.3	2.70	5.40	Beckman Dxl 600/800 Sensitive B84493
	pmol/l	99.0	79.2	119	10.0	20.0	
	pg/ml	28.6	22.9	34.3	2.85	5.70	Beckman Dxl 9000
	pmol/l	105	84.0	126	10.5	21.0	
	pg/ml	88.9	71.1	107	9.05	18.1	bioMerieux, VIDAS
	pmol/l	327	262	392	32.5	65.0	
	pg/ml	25.8	20.6	31.0	2.60	5.20	DiaSorin Liaison XL
	pmol/l	94.8	75.8	114	9.60	19.2	
	pg/ml	45.7	36.6	54.8	4.55	9.10	J. Mitra CLIA - 181
	pmol/l	168	134	202	17.0	34.0	
	pg/ml	69.1	55.3	82.9	6.90	13.8	Mindray CL 8/6/2/12/1000i <= Lot 230501
	pmol/l	254	203	305	25.5	51.0	
	pg/ml	37.3	29.8	44.8	3.75	7.50	Ortho Vitros 3600/5600/ECi/XT 7600
	pmol/l	137	110	164	13.5	27.0	
pg/ml	38.9	31.1	46.7	3.90	7.80	Roche Cobas 4000/e411 (Estradiol II)	
pmol/l	143	114	172	14.5	29.0		
pg/ml	38.9	31.1	46.7	3.90	7.80	Roche Cobas 4000/e411 (Estradiol III)	
pmol/l	143	114	172	14.5	29.0		
pg/ml	41.9	33.5	50.3	4.20	8.40	Roche Cobas e402/e801 (Estradiol III)	
pmol/l	154	123	185	15.5	31.0		
pg/ml	41.6	33.3	49.9	4.15	8.30	Roche Cobas e601/ 602 (Estradiol III)	
pmol/l	153	122	184	15.5	31.0		
pg/ml	41.6	33.3	49.9	4.15	8.30	Roche Cobas e601/ 602 Estradiol II	
pmol/l	153	122	184	15.5	31.0		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Oestradiol	pg/ml	38.4	30.7	46.1	3.85	7.70	Roche Elecsys (Estradiol II)
	pmol/l	141	113	169	14.0	28.0	
	pg/ml	37.0	29.6	44.4	3.70	7.40	Roche Elecsys (Estradiol III)
	pmol/l	136	109	163	13.5	27.0	
	pg/ml	41.3	33.0	49.6	4.15	8.30	Shenzhen YHLO iFlash Series
	pmol/l	152	122	182	15.0	30.0	
	pg/ml	37.5	30.0	45.0	3.75	7.50	Siemens Atellica IM
	pmol/l	138	110	166	14.0	28.0	
	pg/ml	32.9	26.3	39.5	3.30	6.60	Siemens Centaur
	pmol/l	121	96.8	145	12.0	24.0	
	pg/ml	37.0	29.6	44.4	3.70	7.40	Siemens Centaur XP/XPT (eE2)
	pmol/l	136	109	163	13.5	27.0	
pg/ml	54.7	43.8	65.6	5.45	10.9	Siemens/DPC Immulite 2000/2500	
pmol/l	201	161	241	20.0	40.0		
pg/ml	12.5	10.0	15.0	1.25	2.50	Tosoh AIA Series (iE2-hsE2)	
pmol/l	46.0	36.8	55.2	4.60	9.20		
pg/ml	20.4	16.3	24.5	2.05	4.10	Tosoh AIA-CL Series (E2)	
pmol/l	75.1	60.1	90.1	7.50	15.0		
Paracetamol	mg/l	25.0	20.0	30.0	2.50	5.00	Abbott Alinity
	mmol/l	0.165	0.132	0.198	0.017	0.033	
	mg/l	23.9	19.1	28.7	2.40	4.80	Beckman AU Instruments
	mmol/l	0.158	0.126	0.190	0.016	0.032	
	mg/l	23.0	18.4	27.6	2.30	4.60	EMIT
	mmol/l	0.152	0.122	0.182	0.015	0.030	
mg/l	23.5	18.8	28.2	2.35	4.70	Roche Cobas C303/501/502/503/701/702	
mmol/l	0.155	0.124	0.186	0.016	0.031		
mg/l	23.6	18.9	28.3	2.35	4.70	Siemens Atellica CH	
mmol/l	0.156	0.125	0.187	0.016	0.031		
Phenobarbital	µg/ml	7.31	5.85	8.77	0.730	1.46	Abbott Alinity (PETINA)
	µmol/l	31.5	25.2	37.8	3.15	6.30	
	µg/ml	7.89	6.31	9.47	0.790	1.58	Abbott Architect (CMIA)
	µmol/l	34.0	27.2	40.8	3.40	6.80	
	µg/ml	7.77	6.22	9.32	0.775	1.55	Beckman AU Instruments
	µmol/l	33.5	26.8	40.2	3.35	6.70	
µg/ml	7.19	5.75	8.63	0.720	1.44	Microgenics CEDIA assay	
µmol/l	31.0	24.8	37.2	3.10	6.20		
µg/ml	8.07	6.46	9.68	0.805	1.61	Roche Cobas C303/501/502/503/701	
µmol/l	34.8	27.8	41.8	3.50	7.00		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Phenobarbital	µg/ml	7.35	5.88	8.82	0.735	1.47	Siemens Atellica CH
	µmol/l	31.7	25.4	38.0	3.15	6.30	
	µg/ml	8.21	6.57	9.85	0.820	1.64	Siemens/DPC Immulite 2000/2500
	µmol/l	35.4	28.3	42.5	3.55	7.10	
Phenytoin	µg/ml	4.90	3.92	5.88	0.490	0.980	Abbott Alinity
	µmol/l	19.4	15.5	23.3	1.95	3.90	
	µg/ml	4.77	3.82	5.72	0.475	0.950	Abbott Architect
	µmol/l	18.9	15.1	22.7	1.90	3.80	
	µg/ml	4.75	3.80	5.70	0.475	0.950	Beckman AU Instruments
	µmol/l	18.8	15.0	22.6	1.90	3.80	
	µg/ml	4.70	3.76	5.64	0.470	0.940	Roche Cobas 6000/8000
	µmol/l	18.6	14.9	22.3	1.85	3.70	
	µg/ml	4.22	3.38	5.06	0.420	0.840	Siemens Atellica CH
	µmol/l	16.7	13.4	20.0	1.65	3.30	
	µg/ml	4.29	3.43	5.15	0.430	0.860	Siemens Dimension
	µmol/l	17.0	13.6	20.4	1.70	3.40	
	µg/ml	5.33	4.26	6.40	0.535	1.07	Siemens/DPC Immulite 2000/2500
	µmol/l	21.1	16.9	25.3	2.10	4.20	
Progesterone	ng/ml	0.717	0.574	0.860	0.072	0.143	Abbott Alinity i
	nmol/l	2.29	1.83	2.75	0.230	0.460	
	ng/ml	0.861	0.689	1.03	0.085	0.169	Abbott Architect
	nmol/l	2.75	2.20	3.30	0.275	0.550	
	ng/ml	0.930	0.744	1.12	0.095	0.190	Beckman Access Prog. Cal 33555
	nmol/l	2.97	2.38	3.56	0.295	0.590	
	ng/ml	0.983	0.786	1.18	0.099	0.197	Beckman Access Prog.DE Cal. A80773
	nmol/l	3.14	2.51	3.77	0.315	0.630	
	ng/ml	0.908	0.726	1.09	0.091	0.182	Beckman DXI Prog. Cal 33555
	nmol/l	2.90	2.32	3.48	0.290	0.580	
	ng/ml	1.15	0.920	1.38	0.115	0.230	bioMerieux, VIDAS (<= lot 1009311690)
	nmol/l	3.67	2.94	4.40	0.365	0.730	
	ng/ml	1.04	0.832	1.25	0.105	0.210	bioMerieux, VIDAS (>= lot 1009323920)
	nmol/l	3.33	2.66	4.00	0.335	0.670	
	ng/ml	0.513	0.410	0.616	0.052	0.103	DiaSorin Liaison XL
	nmol/l	1.64	1.31	1.97	0.165	0.330	
ng/ml	1.04	0.832	1.25	0.105	0.210	J. Mitra CLIA - 181	
nmol/l	3.31	2.65	3.97	0.330	0.660		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Progesterone	ng/ml	0.914	0.731	1.10	0.093	0.186	J. Mitra CLIA - 2000
	nmol/l	2.92	2.34	3.50	0.290	0.580	
	ng/ml	0.754	0.603	0.905	0.076	0.151	Mindray CL series (Excl. CL 900 series)
	nmol/l	2.41	1.93	2.89	0.240	0.480	
	ng/ml	1.10	0.880	1.32	0.110	0.220	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	3.51	2.81	4.21	0.350	0.700	
	ng/ml	0.964	0.771	1.16	0.098	0.196	Roche Cobas 4000/e411 (Prog. II)
	nmol/l	3.08	2.46	3.70	0.310	0.620	
	ng/ml	0.967	0.774	1.16	0.097	0.193	Roche Cobas 4000/e411 (Prog. III)
	nmol/l	3.09	2.47	3.71	0.310	0.620	
	ng/ml	0.926	0.741	1.11	0.092	0.184	Roche Cobas e402/e801 (Prog III)
	nmol/l	2.96	2.37	3.55	0.295	0.590	
	ng/ml	1.00	0.800	1.20	0.100	0.200	Roche Cobas e601/ 602 (Prog. II)
	nmol/l	3.20	2.56	3.84	0.320	0.640	
	ng/ml	1.04	0.832	1.25	0.105	0.210	Roche Cobas e601/ 602 (Prog. III)
	nmol/l	3.31	2.65	3.97	0.330	0.660	
	ng/ml	0.983	0.786	1.18	0.099	0.197	Roche Elecsys (Prog. II)
	nmol/l	3.14	2.51	3.77	0.315	0.630	
	ng/ml	0.898	0.718	1.08	0.091	0.182	Roche Elecsys (Prog. III)
	nmol/l	2.87	2.30	3.44	0.285	0.570	
ng/ml	0.626	0.501	0.751	0.063	0.125	Shenzhen YHLO iFlash Series	
nmol/l	2.00	1.60	2.40	0.200	0.400		
ng/ml	0.792	0.634	0.950	0.079	0.158	Siemens Atellica IM	
nmol/l	2.53	2.02	3.04	0.255	0.510		
ng/ml	0.739	0.591	0.887	0.074	0.148	Siemens Centaur	
nmol/l	2.36	1.89	2.83	0.235	0.470		
ng/ml	1.01	0.808	1.21	0.100	0.200	Siemens/DPC Immulite 1000	
nmol/l	3.24	2.59	3.89	0.325	0.650		
ng/ml	1.01	0.808	1.21	0.100	0.200	Siemens/DPC Immulite 2000/2500	
nmol/l	3.22	2.58	3.86	0.320	0.640		
ng/ml	1.17	0.936	1.40	0.115	0.230	Tosoh AIA-CL Series	
nmol/l	3.74	2.99	4.49	0.375	0.750		
Prolactin	μIU/mL	149	119	179	15.0	30.0	Abbott Alinity i
	μIU/mL	143	114	172	14.5	29.0	Abbott Architect
	μIU/mL	127	102	152	12.5	25.0	Beckman Access/LXi725
	μIU/mL	122	97.6	146	12.0	24.0	Beckman Dxl 600/800
	μIU/mL	127	102	152	12.5	25.0	Beckman Dxl 9000
	μIU/mL	149	119	179	15.0	30.0	bioMerieux, VIDAS
	μIU/mL	154	123	185	15.5	31.0	DiaSorin Liaison XL

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Prolactin	µIU/mL	143	114	172	14.5	29.0	Immunotech IRMA
	µIU/mL	162	130	194	16.0	32.0	J. Mitra CLIA - 181
	µIU/mL	161	129	193	16.0	32.0	J. Mitra CLIA - 2000
	µIU/mL	135	108	162	13.5	27.0	Lifotronic eCL
	µIU/mL	174	139	209	17.5	35.0	Maccura I Series
	µIU/mL	160	128	192	16.0	32.0	Mindray CL series (Excl. CL 900 series)
	µIU/mL	156	125	187	15.5	31.0	Ortho Vitros 3600/5600/ECi/XT 7600
	µIU/mL	151	121	181	15.0	30.0	Roche Cobas 4000/e411
	µIU/mL	144	115	173	14.5	29.0	Roche Cobas e402/e801 PRL II
	µIU/mL	146	117	175	14.5	29.0	Roche Cobas e601/ 602
	µIU/mL	147	118	176	14.5	29.0	Roche Elecsys
	µIU/mL	146	117	175	14.5	29.0	Roche Elecsys/E170/Cobas e601/602 PRLII
	µIU/mL	191	153	229	19.0	38.0	Shenzhen YHLO iFlash Series
	µIU/mL	113	90.4	136	11.5	23.0	Siemens Atellica IM
	µIU/mL	121	96.8	145	12.0	24.0	Siemens Centaur
	µIU/mL	124	99.2	149	12.5	25.0	Siemens/DPC Immulite 2000/2500
µIU/mL	140	112	168	14.0	28.0	TOSOH AIA Series	
µIU/mL	166	133	199	16.5	33.0	Tosoh AIA-CL Series	
PSA Free	ng/ml = µg/l	1.46	1.10	1.82	0.180	0.360	Abbott Alinity i
	ng/ml = µg/l	1.40	1.05	1.75	0.175	0.350	Abbott Architect
	ng/ml = µg/l	1.64	1.23	2.05	0.205	0.410	Beckman Access standard to WHO IRP96/670
	ng/ml = µg/l	1.74	1.31	2.17	0.215	0.430	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.20	0.900	1.50	0.150	0.300	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	1.70	1.28	2.12	0.210	0.420	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.68	1.26	2.10	0.210	0.420	BioMerieux VIDAS
	ng/ml = µg/l	1.51	1.13	1.89	0.190	0.380	DiaSorin Liaison XL
	ng/ml = µg/l	1.07	0.803	1.34	0.135	0.270	Immunotech IRMA
	ng/ml = µg/l	1.37	1.03	1.71	0.170	0.340	Mindray CL series (Excl. CL 900 series)

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Free	ng/ml = µg/l	1.01	0.758	1.26	0.125	0.250	Ortho Vitros 3600/5600/ECi
	ng/ml = µg/l	1.00	0.750	1.25	0.125	0.250	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	1.22	0.915	1.53	0.155	0.310	Roche Cobas 4000/e411
	ng/ml = µg/l	1.16	0.870	1.45	0.145	0.290	Roche Cobas e402/e801
	ng/ml = µg/l	1.21	0.908	1.51	0.150	0.300	Roche Cobas e601/602
	ng/ml = µg/l	1.16	0.870	1.45	0.145	0.290	Roche Elecsys
	ng/ml = µg/l	1.86	1.40	2.32	0.230	0.460	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	1.50	1.13	1.87	0.185	0.370	Siemens Atellica IM
	ng/ml = µg/l	1.43	1.07	1.79	0.180	0.360	Siemens Centaur
	ng/ml = µg/l	1.28	0.960	1.60	0.160	0.320	Siemens/DPC Immulite 2000/2500
	ng/ml = µg/l	1.21	0.908	1.51	0.150	0.300	TOSOH AIA Series
	ng/ml = µg/l	1.47	1.10	1.84	0.185	0.370	Tosoh AIA-CL Series
PSA Total	ng/ml = µg/l	1.21	0.908	1.51	0.150	0.300	Abbott Alinity i
	ng/ml = µg/l	1.11	0.833	1.39	0.140	0.280	Abbott Architect
	ng/ml = µg/l	1.79	1.34	2.24	0.225	0.450	Beckman Access standard to WHO IRP96/670
	ng/ml = µg/l	1.86	1.40	2.32	0.230	0.460	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.45	1.09	1.81	0.180	0.360	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	1.81	1.36	2.26	0.225	0.450	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.62	1.22	2.02	0.200	0.400	bioMerieux, VIDAS

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Total	ng/ml = µg/l	1.56	1.17	1.95	0.195	0.390	bioMerieux, Vidas TPSA
	ng/ml = µg/l	1.41	1.06	1.76	0.175	0.350	DiaSorin Liaison
	ng/ml = µg/l	1.34	1.01	1.67	0.165	0.330	DiaSorin Liaison XL
	ng/ml = µg/l	1.18	0.885	1.48	0.150	0.300	Immunotech IRMA
	ng/ml = µg/l	1.66	1.25	2.07	0.205	0.410	J. Mitra CLIA - 181
	ng/ml = µg/l	1.71	1.28	2.14	0.215	0.430	J. Mitra CLIA - 2000
	ng/ml = µg/l	1.64	1.23	2.05	0.205	0.410	Mindray CL 900i/920i/960i/980i
	ng/ml = µg/l	1.60	1.20	2.00	0.200	0.400	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	1.51	1.13	1.89	0.190	0.380	Ortho Vitros 3600/5600/ECi
	ng/ml = µg/l	1.50	1.13	1.87	0.185	0.370	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	1.57	1.18	1.96	0.195	0.390	Roche Cobas 4000/e411
	ng/ml = µg/l	1.53	1.15	1.91	0.190	0.380	Roche Cobas e402/e801
	ng/ml = µg/l	1.59	1.19	1.99	0.200	0.400	Roche Cobas e601/602
	ng/ml = µg/l	1.61	1.21	2.01	0.200	0.400	Roche Elecsys
	ng/ml = µg/l	2.42	1.82	3.02	0.300	0.600	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	1.56	1.17	1.95	0.195	0.390	Siemens Atellica IM
	ng/ml = µg/l	1.46	1.10	1.82	0.180	0.360	Siemens Centaur
ng/ml = µg/l	1.25	0.938	1.56	0.155	0.310	Siemens Dimension	
ng/ml = µg/l	1.58	1.19	1.97	0.195	0.390	Siemens Immulite 1000, Total PSA	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Total	ng/ml = µg/l	1.42	1.07	1.77	0.175	0.350	Siemens Immulite 2000/2500, Total PSA
	ng/ml = µg/l	1.07	0.803	1.34	0.135	0.270	TOSOH AIA Series
	ng/ml = µg/l	1.06	0.795	1.33	0.135	0.270	Tosoh AIA-CL Series
SHBG	nmol/l	6.10	4.88	7.32	0.610	1.22	Abbott Alinity i
	nmol/l	6.44	5.15	7.73	0.645	1.29	Abbott Architect
	nmol/l	5.14	4.11	6.17	0.515	1.03	Beckman Access
	nmol/l	5.17	4.14	6.20	0.515	1.03	Beckman Dxl 600/800
	nmol/l	5.14	4.11	6.17	0.515	1.03	Beckman Dxl 9000
	nmol/l	6.18	4.94	7.42	0.620	1.24	Roche analysers
	nmol/l	6.23	4.98	7.48	0.625	1.25	Roche e402/e801
	nmol/l	5.72	4.58	6.86	0.570	1.14	Siemens Atellica IM
	nmol/l	5.22	4.18	6.26	0.520	1.04	Siemens/DPC Immulite 2000/2500
	nmol/l	4.87	3.90	5.84	0.485	0.970	Tosoh AIA-CL Series
Testosterone	ng/dl	44.7	35.8	53.6	4.45	8.90	Abbott Alinity i
	ng/ml	0.446	0.357	0.535	0.045	0.089	
	nmol/l	1.55	1.24	1.86	0.155	0.310	
	ng/dl	46.1	36.9	55.3	4.60	9.20	Abbott Architect
	ng/ml	0.461	0.369	0.553	0.046	0.092	
	nmol/l	1.60	1.28	1.92	0.160	0.320	
	ng/dl	47.0	37.6	56.4	4.70	9.40	Abbott Architect 2nd gen
	ng/ml	0.469	0.375	0.563	0.047	0.094	
	nmol/l	1.63	1.30	1.96	0.165	0.330	
	ng/dl	45.2	36.2	54.2	4.50	9.00	Beckman Access/LXi725
	ng/ml	0.452	0.362	0.542	0.045	0.090	
	nmol/l	1.57	1.26	1.88	0.155	0.310	
	ng/dl	42.7	34.2	51.2	4.25	8.50	Beckman Dxl 600/800
	ng/ml	0.426	0.341	0.511	0.043	0.085	
	nmol/l	1.48	1.18	1.78	0.150	0.300	
	ng/dl	45.2	36.2	54.2	4.50	9.00	Beckman Dxl 9000
	ng/ml	0.452	0.362	0.542	0.045	0.090	
	nmol/l	1.57	1.26	1.88	0.155	0.310	
	ng/dl	35.2	28.2	42.2	3.50	7.00	bioMerieux VIDAS Testosterone II
	ng/ml	0.351	0.281	0.421	0.035	0.070	
nmol/l	1.22	0.976	1.46	0.120	0.240		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Testosterone	ng/dl	97.7	78.2	117	9.65	19.3	Immunotech RIA
	ng/ml	0.976	0.781	1.17	0.097	0.194	
	nmol/l	3.39	2.71	4.07	0.340	0.680	
	ng/dl	49.0	39.2	58.8	4.90	9.80	J. Mitra CLIA - 181
	ng/ml	0.490	0.392	0.588	0.049	0.098	
	nmol/l	1.70	1.36	2.04	0.170	0.340	
	ng/dl	54.8	43.8	65.8	5.50	11.0	J. Mitra CLIA - 2000
	ng/ml	0.547	0.438	0.656	0.055	0.109	
	nmol/l	1.90	1.52	2.28	0.190	0.380	
	ng/dl	51.0	40.8	61.2	5.10	10.2	Mindray CL series (Excl. CL 900 series)
	ng/ml	0.510	0.408	0.612	0.051	0.102	
	nmol/l	1.77	1.42	2.12	0.175	0.350	
	ng/dl	34.0	27.2	40.8	3.40	6.80	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml	0.340	0.272	0.408	0.034	0.068	
	nmol/l	1.18	0.944	1.42	0.120	0.240	
	ng/dl	49.6	39.7	59.5	4.95	9.90	Roche Cobas 4000/e411 Test II
	ng/ml	0.495	0.396	0.594	0.050	0.099	
	nmol/l	1.72	1.38	2.06	0.170	0.340	
	ng/dl	50.4	40.3	60.5	5.05	10.1	Roche Cobas e402/e801 Test II
	ng/ml	0.504	0.403	0.605	0.051	0.101	
	nmol/l	1.75	1.40	2.10	0.175	0.350	
	ng/dl	49.3	39.4	59.2	4.95	9.90	Roche Cobas e601/ 602 Test II
	ng/ml	0.492	0.394	0.590	0.049	0.098	
	nmol/l	1.71	1.37	2.05	0.170	0.340	
	ng/dl	49.0	39.2	58.8	4.90	9.80	Roche Elecsys Test II
	ng/ml	0.490	0.392	0.588	0.049	0.098	
	nmol/l	1.70	1.36	2.04	0.170	0.340	
	ng/dl	34.6	27.7	41.5	3.45	6.90	Siemens Atellica IM
	ng/ml	0.346	0.277	0.415	0.035	0.069	
	nmol/l	1.20	0.960	1.44	0.120	0.240	
	ng/dl	37.5	30.0	45.0	3.75	7.50	Siemens Centaur XP/XPT TSTII
	ng/ml	0.374	0.299	0.449	0.038	0.075	
	nmol/l	1.30	1.04	1.56	0.130	0.260	
	ng/dl	36.9	29.5	44.3	3.70	7.40	Siemens Centaur XP/XPT TSTO
	ng/ml	0.369	0.295	0.443	0.037	0.074	
	nmol/l	1.28	1.02	1.54	0.130	0.260	
	ng/dl	67.1	53.7	80.5	6.70	13.4	Tosoh AIA-CL Series
	ng/ml	0.671	0.537	0.805	0.067	0.134	
	nmol/l	2.33	1.86	2.80	0.235	0.470	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)						
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28								
Size: 12 x 5 ml / 4 x 5 ml		Range						
Analyte	Unit	Target	Low	High	1SD	2SD	Method	
Theophylline	µg/ml	4.99	3.99	5.99	0.500	1.00	Abbott Alinity Enzyme-immu	
	µmol/l	27.7	22.2	33.2	2.75	5.50		
	µg/ml	4.99	3.99	5.99	0.500	1.00	Beckman AU Instruments	
	µmol/l	27.7	22.2	33.2	2.75	5.50		
	µg/ml	5.39	4.31	6.47	0.540	1.08	Roche Cobas 6000/8000	
	µmol/l	29.9	23.9	35.9	3.00	6.00		
	Thyroglobulin	ng/ml	2.79	2.09	3.49	0.350	0.700	Abbott Alinity i
		ng/ml	2.18	1.64	2.72	0.270	0.540	Beckman Access
ng/ml		2.23	1.67	2.79	0.280	0.560	Beckman Dxl 600/800	
ng/ml		2.18	1.64	2.72	0.270	0.540	Beckman Dxl 9000	
ng/ml		1.52	1.14	1.90	0.190	0.380	Beckman IRMA	
ng/ml		0.845	0.634	1.06	0.108	0.215	DiaSorin Liaison XL	
ng/ml		0.910	0.683	1.14	0.115	0.230	DiaSorin, Liaison XL TG II Gen	
ng/ml		2.04	1.53	2.55	0.255	0.510	J. Mitra CLIA - 181	
ng/ml		2.09	1.57	2.61	0.260	0.520	J. Mitra CLIA - 2000	
ng/ml		0.607	0.455	0.759	0.076	0.152	Mindray CL 8/6/2/12/1000i Ref:Tg11X	
ng/ml		2.17	1.63	2.71	0.270	0.540	Roche Cobas 4000/e411	
ng/ml		2.17	1.63	2.71	0.270	0.540	Roche Cobas 4000/e411 Tg II	
ng/ml		2.23	1.67	2.79	0.280	0.560	Roche Cobas e402/e801 Tg II	
ng/ml		2.26	1.70	2.82	0.280	0.560	Roche Cobas e601/602	
ng/ml		2.32	1.74	2.90	0.290	0.580	Roche Cobas e601/602 Tg II	
ng/ml		2.33	1.75	2.91	0.290	0.580	Roche Elecsys	
ng/ml	2.23	1.67	2.79	0.280	0.560	Roche Elecsys Tg II		
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.097	0.078	0.116	0.010	0.019	Abbott Alinity i	
	µU/ml = mIU/l	0.094	0.075	0.113	0.010	0.019	Abbott Architect	
	µU/ml = mIU/l	0.100	0.080	0.120	0.010	0.020	Access/LXi725 Fast TSH 2nd gen.	
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Access/LXi725 hyper TSH 3rd gen.	
	µU/ml = mIU/l	0.091	0.073	0.109	0.009	0.018	Beckman Dxl 600/800 1st generation	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.089	0.071	0.107	0.009	0.018	Beckman DXI 600/800 Fast TSH
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Beckman DXI 600/800 Hyper TSH
	µU/ml = mIU/l	0.091	0.073	0.109	0.009	0.018	Beckman DXI600/800/ Access 2 (3rd IS)
	µU/ml = mIU/l	0.080	0.064	0.096	0.008	0.016	Biomerieux VIDAS TSH
	µU/ml = mIU/l	0.079	0.063	0.095	0.008	0.016	Biomerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.221	0.177	0.265	0.022	0.044	DiaSorin Liaison XL
	µU/ml = mIU/l	0.098	0.078	0.118	0.010	0.020	Fujirebio Lumipulse G Series
	µU/ml = mIU/l	0.156	0.125	0.187	0.016	0.031	Immunotech IRMA
	µU/ml = mIU/l	0.161	0.129	0.193	0.016	0.032	Izotop IRMA
	µU/ml = mIU/l	0.124	0.099	0.149	0.013	0.025	J. Mitra CLIA - 181
	µU/ml = mIU/l	0.124	0.099	0.149	0.013	0.025	J. Mitra CLIA - 2000
	µU/ml = mIU/l	0.214	0.171	0.257	0.022	0.043	Lifotronic eCL
	µU/ml = mIU/l	0.149	0.119	0.179	0.015	0.030	Maccura I Series

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.114	0.091	0.137	0.012	0.023	Ortho Vitros TSH
	µU/ml = mIU/l	0.115	0.092	0.138	0.012	0.023	Ortho Vitros TSH3
	µU/ml = mIU/l	0.132	0.106	0.158	0.013	0.026	Roche Cobas 4000/e411
	µU/ml = mIU/l	0.124	0.099	0.149	0.013	0.025	Roche Cobas e402/e801
	µU/ml = mIU/l	0.132	0.106	0.158	0.013	0.026	Roche Cobas e601/ 602
	µU/ml = mIU/l	0.134	0.107	0.161	0.014	0.027	Roche Elecsys
	µU/ml = mIU/l	0.247	0.198	0.296	0.025	0.049	Shenzhen YHLO iFlash Series
	µU/ml = mIU/l	0.100	0.080	0.120	0.010	0.020	Siemens Atellica IM
	µU/ml = mIU/l	0.105	0.084	0.126	0.011	0.021	Siemens Centaur
	µU/ml = mIU/l	0.103	0.082	0.124	0.011	0.021	Siemens Centaur TSH3-Ultra
	µU/ml = mIU/l	0.096	0.077	0.115	0.010	0.019	Siemens Dimension Exl LOCI
	µU/ml = mIU/l	0.111	0.089	0.133	0.011	0.022	Siemens/DPC Immulite 2000/2500
µU/ml = mIU/l	0.079	0.063	0.095	0.008	0.016	Sysmex HISCL Series	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.158	0.126	0.190	0.016	0.032	TOSOH AIA Series
	µU/ml = mIU/l	0.193	0.154	0.232	0.020	0.039	Tosoh AIA-CL Series
Total Beta hCG	IU/ml mU/ml = IU/l	0.014	0.011	0.017	0.002	0.003	Abbott Alinity i
	IU/ml mU/ml = IU/l	0.013	0.010	0.016	0.002	0.003	Abbott Architect
	IU/ml mU/ml = IU/l	0.020	0.016	0.024	0.002	0.004	Beckman Access Total BhCG (5th IS)
	IU/ml mU/ml = IU/l	0.019	0.015	0.023	0.002	0.004	Beckman Access/LXi725
	IU/ml mU/ml = IU/l	0.021	0.017	0.025	0.002	0.004	Beckman Dxl 600/800
	IU/ml mU/ml = IU/l	0.019	0.015	0.023	0.002	0.004	Beckman Dxl 9000
	IU/ml mU/ml = IU/l	0.021	0.017	0.025	0.002	0.004	Beckman DXI Total BhCG (5th IS)
	IU/ml mU/ml = IU/l	0.012	0.010	0.014	0.001	0.002	DiaSorin Liaison XL
	IU/ml mU/ml = IU/l	0.002	0.002	0.002	0.000	0.000	Fineware
	IU/ml mU/ml = IU/l	0.015	0.012	0.018	0.002	0.003	J. Mitra CLIA - 181
	IU/ml mU/ml = IU/l	0.015	0.012	0.018	0.002	0.003	J. Mitra CLIA - 2000

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total Beta hCG	IU/ml	0.018	0.014	0.022	0.002	0.004	Mindray hCG CL 900i/920i/960i/980i
	mU/ml = IU/l	18.0	14.4	21.6	1.80	3.60	
	IU/ml	0.003	0.002	0.004	0.001	0.001	Ortho Vitros 3600/5600/ECi/XT 7600
	mU/ml = IU/l	3.49	2.79	4.19	0.350	0.700	
	IU/ml	0.013	0.010	0.016	0.002	0.003	Radiometer AQT90 Flex
	mU/ml = IU/l	13.1	10.5	15.7	1.30	2.60	
	IU/ml	0.015	0.012	0.018	0.002	0.003	Roche Cobas Core EIA
	mU/ml = IU/l	14.6	11.7	17.5	1.45	2.90	
	IU/ml	0.014	0.011	0.017	0.002	0.003	Roche hCG + Beta e402/e801
	mU/ml = IU/l	14.1	11.3	16.9	1.40	2.80	
	IU/ml	0.001	0.001	0.001	0.000	0.000	Roche hCG STAT(Intact)
	mU/ml = IU/l	1.06	0.848	1.27	0.105	0.210	
	IU/ml	0.015	0.012	0.018	0.002	0.003	Roche hCG+Beta
	mU/ml = IU/l	14.7	11.8	17.6	1.45	2.90	
	IU/ml	0.007	0.006	0.008	0.001	0.001	Shenzhen YHLO iFlash Series
	mU/ml = IU/l	6.64	5.31	7.97	0.665	1.33	
IU/ml	0.008	0.006	0.010	0.001	0.002	Siemens Atellica IM	
mU/ml = IU/l	7.79	6.23	9.35	0.780	1.56		
IU/ml	0.009	0.007	0.011	0.001	0.002	Siemens Centaur	
mU/ml = IU/l	8.77	7.02	10.5	0.865	1.73		
IU/ml	0.001	0.001	0.001	0.000	0.000	Siemens Dimension	
mU/ml = IU/l	1.04	0.832	1.25	0.105	0.210		
IU/ml	0.026	0.021	0.031	0.003	0.005	Siemens/DPC Immulite 2000	
mU/ml = IU/l	25.9	20.7	31.1	2.60	5.20		
IU/ml	0.014	0.011	0.017	0.002	0.003	TOSOH AIA Series	
mU/ml = IU/l	13.9	11.1	16.7	1.40	2.80		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total Beta hCG	IU/ml	0.016	0.013	0.019	0.002	0.003	Tosoh AIA-CL Series
	mU/ml = IU/l	15.6	12.5	18.7	1.55	3.10	
Total T3	ng/dl	130	97.5	163	16.5	33.0	Abbott Alinity i
	ng/ml	1.30	0.975	1.63	0.165	0.330	
	nmol/l	2.00	1.50	2.50	0.250	0.500	
	ng/dl	127	95.3	159	16.0	32.0	Abbott Architect
	ng/ml	1.27	0.953	1.59	0.160	0.320	
	nmol/l	1.95	1.46	2.44	0.245	0.490	
	ng/dl	149	112	186	18.5	37.0	Beckman Access/LXi725
	ng/ml	1.49	1.12	1.86	0.185	0.370	
	nmol/l	2.29	1.72	2.86	0.285	0.570	
	ng/dl	151	113	189	19.0	38.0	Beckman Dxl 600/800
	ng/ml	1.52	1.14	1.90	0.190	0.380	
	nmol/l	2.33	1.75	2.91	0.290	0.580	
	ng/dl	149	112	186	18.5	37.0	Beckman Dxl 9000
	ng/ml	1.49	1.12	1.86	0.185	0.370	
	nmol/l	2.29	1.72	2.86	0.285	0.570	
	ng/dl	129	96.8	161	16.0	32.0	bioMerieux, VIDAS
	ng/ml	1.30	0.975	1.63	0.165	0.330	
	nmol/l	1.99	1.49	2.49	0.250	0.500	
	ng/dl	89.6	67.2	112	11.2	22.4	DiaSorin Liaison XL
	ng/ml	0.898	0.674	1.12	0.111	0.222	
	nmol/l	1.38	1.04	1.72	0.170	0.340	
	ng/dl	96.1	72.1	120	12.0	23.9	Immunotech RIA
	ng/ml	0.963	0.722	1.20	0.119	0.237	
	nmol/l	1.48	1.11	1.85	0.185	0.370	
ng/dl	154	116	192	19.0	38.0	J. Mitra CLIA - 181	
ng/ml	1.54	1.16	1.92	0.190	0.380		
nmol/l	2.37	1.78	2.96	0.295	0.590		
ng/dl	154	116	192	19.0	38.0	J. Mitra CLIA - 2000	
ng/ml	1.54	1.16	1.92	0.190	0.380		
nmol/l	2.37	1.78	2.96	0.295	0.590		
ng/dl	112	84.0	140	14.0	28.0	Mindray CL 8/6/2/12/1000i Ref: T3 11X	
ng/ml	1.12	0.840	1.40	0.140	0.280		
nmol/l	1.72	1.29	2.15	0.215	0.430		
ng/dl	114	85.5	143	14.5	29.0	Mindray CL 900i Ref: T3 11X	
ng/ml	1.15	0.863	1.44	0.145	0.290		
nmol/l	1.76	1.32	2.20	0.220	0.440		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total T3	ng/dl	151	113	189	19.0	38.0	Ortho Vitros 3600/5600/ECi/XT/7600
	ng/ml	1.51	1.13	1.89	0.190	0.380	
	nmol/l	2.32	1.74	2.90	0.290	0.580	
	ng/dl	185	139	231	23.0	46.0	Roche Cobas 4000/e411
	ng/ml	1.86	1.40	2.32	0.230	0.460	
	nmol/l	2.85	2.14	3.56	0.355	0.710	
	ng/dl	188	141	235	23.5	47.0	Roche Cobas e402/e801
	ng/ml	1.88	1.41	2.35	0.235	0.470	
	nmol/l	2.89	2.17	3.61	0.360	0.720	
	ng/dl	182	137	227	22.5	45.0	Roche Cobas e601/ 602
	ng/ml	1.82	1.37	2.27	0.225	0.450	
	nmol/l	2.80	2.10	3.50	0.350	0.700	
	ng/dl	127	95.3	159	16.0	32.0	Shenzhen YHLO iFlash Series
	ng/ml	1.27	0.953	1.59	0.160	0.320	
	nmol/l	1.95	1.46	2.44	0.245	0.490	
	ng/dl	125	93.8	156	15.5	31.0	Siemens Atellica IM
	ng/ml	1.26	0.945	1.58	0.160	0.320	
	nmol/l	1.93	1.45	2.41	0.240	0.480	
	ng/dl	125	93.8	156	15.5	31.0	Siemens Centaur
	ng/ml	1.25	0.938	1.56	0.155	0.310	
	nmol/l	1.92	1.44	2.40	0.240	0.480	
	ng/dl	81.2	60.9	102	10.4	20.8	Siemens/DPC Immulite 2000/2500
	ng/ml	0.814	0.611	1.02	0.103	0.206	
	nmol/l	1.25	0.938	1.56	0.155	0.310	
ng/dl	118	88.5	148	15.0	30.0	TOSOH AIA Series	
ng/ml	1.18	0.885	1.48	0.150	0.300		
nmol/l	1.81	1.36	2.26	0.225	0.450		
ng/dl	118	88.5	148	15.0	30.0	Tosoh AIA-CL Series	
ng/ml	1.18	0.885	1.48	0.150	0.300		
nmol/l	1.81	1.36	2.26	0.225	0.450		
Total T4	ng/ml	22.6	17.0	28.2	2.80	5.60	Abbott Alinity i
	nmol/l	29.0	21.8	36.2	3.60	7.20	
	µg/dl	2.26	1.70	2.82	0.280	0.560	
	ng/ml	23.9	17.9	29.9	3.00	6.00	Abbott Architect
	nmol/l	30.6	23.0	38.2	3.80	7.60	
	µg/dl	2.39	1.79	2.99	0.300	0.600	
	ng/ml	14.6	11.0	18.2	1.80	3.60	Beckman Access/LXi725
	nmol/l	18.7	14.0	23.4	2.35	4.70	
	µg/dl	1.46	1.10	1.82	0.180	0.360	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total T4	ng/ml	14.6	11.0	18.2	1.80	3.60	Beckman Dxl 9000
	nmol/l	18.7	14.0	23.4	2.35	4.70	
	µg/dl	1.46	1.10	1.82	0.180	0.360	
	ng/ml	21.7	16.3	27.1	2.70	5.40	bioMerieux, VIDAS
	nmol/l	27.8	20.9	34.7	3.45	6.90	
	µg/dl	2.17	1.63	2.71	0.270	0.540	
	ng/ml	23.9	17.9	29.9	3.00	6.00	DiaSorin Liaison XL
	nmol/l	30.6	23.0	38.2	3.80	7.60	
	µg/dl	2.39	1.79	2.99	0.300	0.600	
	ng/ml	22.5	16.9	28.1	2.80	5.60	Immunotech RIA
	nmol/l	28.9	21.7	36.1	3.60	7.20	
	µg/dl	2.25	1.69	2.81	0.280	0.560	
	ng/ml	26.1	19.6	32.6	3.25	6.50	J. Mitra CLIA - 181
	nmol/l	33.5	25.1	41.9	4.20	8.40	
	µg/dl	2.61	1.96	3.26	0.325	0.650	
	ng/ml	27.5	20.6	34.4	3.45	6.90	J. Mitra CLIA - 2000
	nmol/l	35.3	26.5	44.1	4.40	8.80	
	µg/dl	2.75	2.06	3.44	0.345	0.690	
	ng/ml	18.9	14.2	23.6	2.35	4.70	Mindray CL 8/6/2/12/1000i Ref: T4 11X
	nmol/l	24.2	18.2	30.2	3.00	6.00	
	µg/dl	1.89	1.42	2.36	0.235	0.470	
	ng/ml	17.5	13.1	21.9	2.20	4.40	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	22.5	16.9	28.1	2.80	5.60	
	µg/dl	1.76	1.32	2.20	0.220	0.440	
	ng/ml	27.2	20.4	34.0	3.40	6.80	Roche Cobas 4000/e411
	nmol/l	34.9	26.2	43.6	4.35	8.70	
	µg/dl	2.72	2.04	3.40	0.340	0.680	
	ng/ml	23.9	17.9	29.9	3.00	6.00	Roche Cobas e402/e801
	nmol/l	30.6	23.0	38.2	3.80	7.60	
	µg/dl	2.39	1.79	2.99	0.300	0.600	
	ng/ml	25.3	19.0	31.6	3.15	6.30	Roche Cobas e601/ 602
	nmol/l	32.4	24.3	40.5	4.05	8.10	
	µg/dl	2.53	1.90	3.16	0.315	0.630	
	ng/ml	25.3	19.0	31.6	3.15	6.30	Roche Elecsys
	nmol/l	32.5	24.4	40.6	4.05	8.10	
	µg/dl	2.54	1.91	3.17	0.315	0.630	
	ng/ml	27.8	20.9	34.7	3.45	6.90	Shenzhen YHLO iFlash Series
	nmol/l	35.6	26.7	44.5	4.45	8.90	
	µg/dl	2.78	2.09	3.47	0.345	0.690	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)						
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28								
Size: 12 x 5 ml / 4 x 5 ml		Range						
Analyte	Unit	Target	Low	High	1SD	2SD	Method	
Total T4	ng/ml	15.8	11.9	19.7	1.95	3.90	Siemens Atellica IM	
	nmol/l	20.2	15.2	25.2	2.50	5.00		
	µg/dl	1.58	1.19	1.97	0.195	0.390		
	ng/ml	18.0	13.5	22.5	2.25	4.50	Siemens Centaur	
		nmol/l	23.1	17.3	28.9	2.90		5.80
		µg/dl	1.80	1.35	2.25	0.225		0.450
	ng/ml	17.6	13.2	22.0	2.20	4.40	Siemens/DPC Immulite 2000/2500	
		nmol/l	22.6	17.0	28.2	2.80		5.60
		µg/dl	1.76	1.32	2.20	0.220		0.440
	ng/ml	17.2	12.9	21.5	2.15	4.30	TOSOH AIA Series	
		nmol/l	22.0	16.5	27.5	2.75		5.50
		µg/dl	1.72	1.29	2.15	0.215		0.430
	ng/ml	24.6	18.5	30.7	3.05	6.10	Tosoh AIA-CL Series	
		nmol/l	31.5	23.6	39.4	3.95		7.90
		µg/dl	2.46	1.85	3.07	0.305		0.610
	Valproic Acid	µg/ml	28.7	23.0	34.4	2.85	5.70	Abbott Alinity (CMIA)
		µmol/l	199	159	239	20.0	40.0	
		µg/ml	29.4	23.5	35.3	2.95	5.90	Abbott Alinity (PETINA)
µmol/l			204	163	245	20.5	41.0	
µg/ml		33.8	27.0	40.6	3.40	6.80	Abbott Architect (CMIA)	
		µmol/l	234	187	281	23.5		47.0
µg/ml		29.0	23.2	34.8	2.90	5.80	Abbott Architect (PETINIA)	
		µmol/l	201	161	241	20.0		40.0
µg/ml		38.2	30.6	45.8	3.80	7.60	Beckman AU Instruments	
		µmol/l	265	212	318	26.5		53.0
µg/ml		35.9	28.7	43.1	3.60	7.20	Ortho Vitros 4600/5600/5.1/XT 7600	
		µmol/l	249	199	299	25.0		50.0
µg/ml		34.8	27.8	41.8	3.50	7.00	Roche Cobas 4000/c311	
		µmol/l	241	193	289	24.0		48.0
µg/ml		31.3	25.0	37.6	3.15	6.30	Roche Cobas 6000/8000	
		µmol/l	217	174	260	21.5		43.0
µg/ml		33.9	27.1	40.7	3.40	6.80	Siemens Atellica CH	
		µmol/l	235	188	282	23.5		47.0
µg/ml		32.3	25.8	38.8	3.25	6.50	Siemens Dimension	
		µmol/l	224	179	269	22.5		45.0
µg/ml		30.6	24.5	36.7	3.05	6.10	Siemens/DPC Immulite 2000/2500	
		µmol/l	212	170	254	21.0		42.0
Vancomycin		µg/ml	5.60	4.48	6.72	0.560	1.12	Abbott Alinity (CMIA)
		µmol/l	3.77	3.02	4.52	0.375	0.750	

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Vancomycin	µg/ml	5.47	4.38	6.56	0.545	1.09	Abbott Alinity (PETINA)
	µmol/l	3.68	2.94	4.42	0.370	0.740	
	µg/ml	5.24	4.19	6.29	0.525	1.05	Abbott Architect (CMIA)
	µmol/l	3.53	2.82	4.24	0.355	0.710	
	µg/ml	5.30	4.24	6.36	0.530	1.06	Beckman Coulter Synchron LX / Unicel
	µmol/l	3.57	2.86	4.28	0.355	0.710	
	µg/ml	4.80	3.84	5.76	0.480	0.960	EMIT
	µmol/l	3.23	2.58	3.88	0.325	0.650	
	µg/ml	6.05	4.84	7.26	0.605	1.21	Ortho Vitros Microslide Systems
	µmol/l	4.07	3.26	4.88	0.405	0.810	
	µg/ml	4.80	3.84	5.76	0.480	0.960	Roche Cobas 6000/8000
	µmol/l	3.23	2.58	3.88	0.325	0.650	
	µg/ml	4.93	3.94	5.92	0.495	0.990	Siemens Atellica CH
	µmol/l	3.32	2.66	3.98	0.330	0.660	
Vitamin B12	pg/ml	344	275	413	34.5	69.0	Abbott Alinity i
	pmol/l	254	203	305	25.5	51.0	
	pg/ml	186	149	223	18.5	37.0	Abbott Architect
	pmol/l	137	110	164	13.5	27.0	
	pg/ml	112	89.6	134	11.0	22.0	Beckman Access/LXi725
	pmol/l	82.3	65.8	98.8	8.25	16.5	
	pg/ml	112	89.6	134	11.0	22.0	Beckman Dxl 600/800
	pmol/l	82.3	65.8	98.8	8.25	16.5	
	pg/ml	112	89.6	134	11.0	22.0	Beckman Dxl 9000
	pmol/l	82.3	65.8	98.8	8.25	16.5	
	pg/ml	97.6	78.1	117	9.70	19.4	DiaSorin Liaison XL
	pmol/l	72.0	57.6	86.4	7.20	14.4	
	pg/ml	206	165	247	20.5	41.0	J. Mitra CLIA - 181
	pmol/l	152	122	182	15.0	30.0	
	pg/ml	205	164	246	20.5	41.0	J. Mitra CLIA - 2000
	pmol/l	151	121	181	15.0	30.0	
	pg/ml	175	140	210	17.5	35.0	Lifotronic eCL
	pmol/l	129	103	155	13.0	26.0	
	pg/ml	173	138	208	17.5	35.0	Mindray CL 900i/920i/960i/980i
	pmol/l	128	102	154	13.0	26.0	
pg/ml	179	143	215	18.0	36.0	Mindray CL series (Excl. CL 900 series)	
pmol/l	132	106	158	13.0	26.0		
pg/ml	172	138	206	17.0	34.0	Ortho Vitros 3600/5600/ECi/XT 7600	
pmol/l	127	102	152	12.5	25.0		

Method		Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)					
Lot. No: 2543EC Cat. No: IA3109 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Vitamin B12	pg/ml	211	169	253	21.0	42.0	Roche Cobas 4000/e411 Gen II
	pmol/l	156	125	187	15.5	31.0	
	pg/ml	156	125	187	15.5	31.0	Roche Cobas e402/e801 Gen II
	pmol/l	115	92.0	138	11.5	23.0	
	pg/ml	182	146	218	18.0	36.0	Roche Cobas e601/ 602 Gen II
	pmol/l	134	107	161	13.5	27.0	
	pg/ml	149	119	179	15.0	30.0	Shenzhen YHLO iFlash Series
	pmol/l	110	88.0	132	11.0	22.0	
	pg/ml	154	123	185	15.5	31.0	Siemens Atellica IM lot <=13290
	pmol/l	114	91.2	137	11.5	23.0	
	pg/ml	141	113	169	14.0	28.0	Siemens Centaur
	pmol/l	104	83.2	125	10.5	21.0	
	pg/ml	125	100	150	12.5	25.0	Siemens Dimension
	pmol/l	92.5	74.0	111	9.25	18.5	
	pg/ml	153	122	184	15.5	31.0	Siemens/DPC Immulite 2000
	pmol/l	113	90.4	136	11.5	23.0	
	pg/ml	171	137	205	17.0	34.0	TOSOH AIA Series
	pmol/l	126	101	151	12.5	25.0	
pg/ml	114	91.2	137	11.5	23.0	Tosoh AIA-CL Series	
pmol/l	83.8	67.0	101	8.60	17.2		