

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

CAT. NO. IA3110	GTIN: 05055273207262	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. 2544EC	EXPIRY: 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 1116-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 1116-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 lyophilised.

- 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 2: 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.

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Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	5.13	3.85	6.41	0.640	1.28	DiaMetra ELISA
	nmol/l	15.5	11.6	19.4	1.95	3.90	
	ng/ml	5.33	4.00	6.66	0.665	1.33	DIAsource, RIA
	nmol/l	16.1	12.1	20.1	2.00	4.00	
	ng/ml	9.00	6.75	11.3	1.15	2.30	DRG ELISA
	nmol/l	27.2	20.4	34.0	3.40	6.80	
	ng/ml	3.64	2.73	4.55	0.455	0.910	IDS-iSYS 17-OH Progesterone
	nmol/l	11.0	8.25	13.8	1.40	2.80	
25-OH-Vitamin D	ng/ml	5.40	4.05	6.75	0.675	1.35	Immunotech RIA
	nmol/l	16.3	12.2	20.4	2.05	4.10	
	ng/ml	7.48	5.61	9.35	0.935	1.87	LC/MS
	nmol/l	22.6	17.0	28.2	2.80	5.60	
	nmol/l	59.5	44.6	74.4	7.45	14.9	Abbott Alinity i
	nmol/l	57.7	43.3	72.1	7.20	14.4	Abbott Architect (3L52)
	nmol/l	57.5	43.1	71.9	7.20	14.4	Abbott Architect (5P02)
	nmol/l	68.3	51.2	85.4	8.55	17.1	Beckman Access 25 OH Vitamin D Total
	nmol/l	67.1	50.3	83.9	8.40	16.8	Beckman Dxl 600/800
	nmol/l	69.3	52.0	86.6	8.65	17.3	bioMerieux Vidas/mini Vidas/Vidas 3
	nmol/l	66.8	50.1	83.5	8.35	16.7	DiaSorin Liaison
	nmol/l	69.1	51.8	86.4	8.65	17.3	DiaSorin Liaison XL
	nmol/l	89.9	67.4	112	11.1	22.1	HPLC
	nmol/l	64.8	48.6	81.0	8.10	16.2	Lifotronic eCL
	nmol/l	89.4	67.1	112	11.3	22.6	Maccura I Series
	nmol/l	97.0	72.8	121	12.0	24.0	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	47.5	35.6	59.4	5.95	11.9	Roche Vitamin D Total
	nmol/l	46.9	35.2	58.6	5.85	11.7	Roche Vitamin D Total II
	nmol/l	48.7	36.5	60.9	6.10	12.2	Roche Vitamin D Total II e402/e801
	nmol/l	47.2	35.4	59.0	5.90	11.8	Roche Vitamin D total III
nmol/l	48.6	36.5	60.7	6.05	12.1	Roche Vitamin D Total III e402/e801	
nmol/l	75.4	56.6	94.2	9.40	18.8	Shenzhen YHLO iFlash Series	
nmol/l	91.8	68.9	115	11.6	23.2	Siemens Atellica IM	
nmol/l	89.3	67.0	112	11.4	22.7	Siemens Centaur	
nmol/l	82.9	62.2	104	10.6	21.1	TOSOH AIA Series	
nmol/l	100	75.0	125	12.5	25.0	Tosoh AIA-CL Series	
ACTH	pg/ml	29.0	21.8	36.2	3.60	7.20	DiaSorin Liaison XL
	pmol/l	6.38	4.79	7.97	0.795	1.59	
	pg/ml	22.3	16.7	27.9	2.80	5.60	Diasource IRMA
	pmol/l	4.90	3.68	6.12	0.610	1.22	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
ACTH	pg/ml	16.7	12.5	20.9	2.10	4.20	Roche Cobas e402/e801
	pmol/l	3.67	2.75	4.59	0.460	0.920	
	pg/ml	22.0	16.5	27.5	2.75	5.50	Siemens/DPC Immulite 2000/2500
	pmol/l	4.84	3.63	6.05	0.605	1.21	
	pg/ml	18.2	13.7	22.7	2.25	4.50	Tosoh AIA-CL Series
	pmol/l	4.01	3.01	5.01	0.500	1.00	
Aldosterone	pg/ml	113	84.8	141	14.0	28.0	DiaSorin Liaison
	pmol/l	312	234	390	39.0	78.0	
	pg/ml	117	87.8	146	14.5	29.0	DiaSorin Liaison XL
	pmol/l	325	244	406	40.5	81.0	
	pg/ml	109	81.8	136	13.5	27.0	IDS iSYS
	pmol/l	302	227	377	37.5	75.0	
Alpha-fetoprotein	pg/ml	166	125	207	20.5	41.0	Immunotech RIA
	pmol/l	461	346	576	57.5	115	
	ng/ml	41.4	33.1	49.7	4.15	8.30	3HB-GGG Start
	KIU/l = IU/ml	34.2	27.4	41.0	3.40	6.80	
	ng/ml	41.5	33.2	49.8	4.15	8.30	Abbott Alinity i
	KIU/l = IU/ml	34.3	27.4	41.2	3.45	6.90	
	ng/ml	43.3	34.6	52.0	4.35	8.70	Beckman Access/LXi725
	KIU/l = IU/ml	35.8	28.6	43.0	3.60	7.20	
	ng/ml	41.1	32.9	49.3	4.10	8.20	Beckman Dxl 600/800
	KIU/l = IU/ml	34.0	27.2	40.8	3.40	6.80	
	ng/ml	47.1	37.7	56.5	4.70	9.40	Beckman/Immunotech IRMA
	KIU/l = IU/ml	38.9	31.1	46.7	3.90	7.80	
ng/ml	18.3	14.6	22.0	1.85	3.70	bioMerieux, Vidas/Mini Vidas	
KIU/l = IU/ml	15.1	12.1	18.1	1.50	3.00		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	43.9	35.1	52.7	4.40	8.80	DiaSorin Liaison
	KIU/l = IU/ml	36.3	29.0	43.6	3.65	7.30	
	ng/ml	47.3	37.8	56.8	4.75	9.50	DiaSorin Liaison XL
	KIU/l = IU/ml	39.1	31.3	46.9	3.90	7.80	
	ng/ml	54.5	43.6	65.4	5.45	10.9	Fineware
	KIU/l = IU/ml	45.0	36.0	54.0	4.50	9.00	
	ng/ml	57.1	45.7	68.5	5.70	11.4	Ortho Vitros 3600/5600/ECi/XT 7600
	KIU/l = IU/ml	47.2	37.8	56.6	4.70	9.40	
	ng/ml	43.6	34.9	52.3	4.35	8.70	Roche Cobas 4000/e411
	KIU/l = IU/ml	36.0	28.8	43.2	3.60	7.20	
	ng/ml	44.8	35.8	53.8	4.50	9.00	Roche Cobas e402/e801
	KIU/l = IU/ml	37.0	29.6	44.4	3.70	7.40	
	ng/ml	43.8	35.0	52.6	4.40	8.80	Roche Cobas e601/ 602
	KIU/l = IU/ml	36.2	29.0	43.4	3.60	7.20	
	ng/ml	41.9	33.5	50.3	4.20	8.40	Roche Elecsys
	KIU/l = IU/ml	34.6	27.7	41.5	3.45	6.90	
	ng/ml	39.1	31.3	46.9	3.90	7.80	Shenzhen YHLO iFlash Series
	KIU/l = IU/ml	32.3	25.8	38.8	3.25	6.50	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	60.0	48.0	72.0	6.00	12.0	Siemens Atellica IM
	KIU/l = IU/ml	49.6	39.7	59.5	4.95	9.90	
	ng/ml	60.3	48.2	72.4	6.05	12.1	Siemens Centaur
	KIU/l = IU/ml	49.8	39.8	59.8	5.00	10.0	
	ng/ml	35.9	28.7	43.1	3.60	7.20	Siemens/DPC Immulite 2000/2500
	KIU/l = IU/ml	29.7	23.8	35.6	2.95	5.90	
	ng/ml	40.3	32.2	48.4	4.05	8.10	Sysmex HISCL Series
	KIU/l = IU/ml	33.3	26.6	40.0	3.35	6.70	
	ng/ml	41.4	33.1	49.7	4.15	8.30	TOSOH AIA Series
	KIU/l = IU/ml	34.2	27.4	41.0	3.40	6.80	
	ng/ml	37.3	29.8	44.8	3.75	7.50	Tosoh AIA-CL Series
	KIU/l = IU/ml	30.8	24.6	37.0	3.10	6.20	
Amikacin	µg/ml	8.78	7.02	10.5	0.860	1.72	Abbott Alinity
	µmol/l	15.0	12.0	18.0	1.50	3.00	
	µg/ml	8.78	7.02	10.5	0.860	1.72	EMIT
	µmol/l	15.0	12.0	18.0	1.50	3.00	
	µg/ml	8.78	7.02	10.5	0.860	1.72	Roche Cobas 6000/8000
	µmol/l	15.0	12.0	18.0	1.50	3.00	
	µg/ml	8.61	6.89	10.3	0.845	1.69	Thermo Scientific QMS Amikacin
	µmol/l	14.7	11.8	17.6	1.45	2.90	
Androstenedione	ng/ml	3.13	2.35	3.91	0.390	0.780	DiaSorin Liaison XL
	nmol/l	10.9	8.18	13.6	1.35	2.70	
	ng/ml	2.19	1.64	2.74	0.275	0.550	LC/MS
	nmol/l	7.64	5.73	9.55	0.955	1.91	
	ng/ml	2.47	1.85	3.09	0.310	0.620	Roche Elecsys
	nmol/l	8.62	6.47	10.8	1.09	2.18	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.28	1.71	2.85	0.285	0.570	Siemens Atellica IM
	nmol/l	7.94	5.96	9.92	0.990	1.98	
	ng/ml	6.49	4.87	8.11	0.810	1.62	Siemens/DPC Immulite 2000
	nmol/l	22.6	17.0	28.2	2.80	5.60	
Beta-2-Microglobulin	µg/ml = mg/l	2.64	2.11	3.17	0.265	0.530	Abbott Alinity
	µg/ml = mg/l	2.59	2.07	3.11	0.260	0.520	Abbott Architect
	µg/ml = mg/l	2.61	2.09	3.13	0.260	0.520	Beckman AU Instruments
	µg/ml = mg/l	2.91	2.33	3.49	0.290	0.580	Binding Site Optilite
	µg/ml = mg/l	2.63	2.10	3.16	0.265	0.530	bioMerieux, VIDAS
	µg/ml = mg/l	2.36	1.89	2.83	0.235	0.470	DiaSorin Liaison
	µg/ml = mg/l	2.58	2.06	3.10	0.260	0.520	DiaSorin Liaison XL
	µg/ml = mg/l	2.53	2.02	3.04	0.255	0.510	Roche Cobas 4000/c311
	µg/ml = mg/l	2.62	2.10	3.14	0.260	0.520	Roche Cobas 6000/8000
	µg/ml = mg/l	2.63	2.10	3.16	0.265	0.530	Roche Elecsys
	µg/ml = mg/l	2.65	2.12	3.18	0.265	0.530	Roche Tinaquant
	µg/ml = mg/l	2.63	2.10	3.16	0.265	0.530	Siemens Atellica CH
	µg/ml = mg/l	2.50	2.00	3.00	0.250	0.500	Siemens/Behring Nephelometer
	µg/ml = mg/l	2.56	2.05	3.07	0.255	0.510	Siemens/DPC Immulite 2000/2500
µg/ml = mg/l	2.22	1.78	2.66	0.220	0.440	Tosoh AIA-CL Series	
C-Peptide	ng/ml	4.20	3.15	5.25	0.525	1.05	Abbott Alinity i
	nmol/l	1.39	1.04	1.74	0.175	0.350	
	ng/ml	4.29	3.22	5.36	0.535	1.07	Abbott Architect
	nmol/l	1.42	1.07	1.77	0.175	0.350	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.90	2.18	3.62	0.360	0.720	Beckman Access C-Peptide
	nmol/l	0.961	0.721	1.20	0.120	0.239	
	ng/ml	5.07	3.80	6.34	0.635	1.27	DiaSorin Liaison
	nmol/l	1.68	1.26	2.10	0.210	0.420	
	ng/ml	5.10	3.83	6.37	0.635	1.27	DiaSorin Liaison XL
	nmol/l	1.69	1.27	2.11	0.210	0.420	
	ng/ml	4.65	3.49	5.81	0.580	1.16	Ortho Vitros 3600/5600/ECi/ XT 7600
	nmol/l	1.54	1.16	1.92	0.190	0.380	
	ng/ml	4.92	3.69	6.15	0.615	1.23	Roche Cobas 4000/e411
	nmol/l	1.63	1.22	2.04	0.205	0.410	
	ng/ml	4.59	3.44	5.74	0.575	1.15	Roche Cobas e402/e801
	nmol/l	1.52	1.14	1.90	0.190	0.380	
	ng/ml	4.74	3.56	5.92	0.590	1.18	Roche Cobas e601/ 602
	nmol/l	1.57	1.18	1.96	0.195	0.390	
	ng/ml	5.01	3.76	6.26	0.625	1.25	Roche Elecsys
	nmol/l	1.66	1.25	2.07	0.205	0.410	
	ng/ml	5.34	4.01	6.67	0.665	1.33	Shenzhen YHLO iFlash Series
	nmol/l	1.77	1.33	2.21	0.220	0.440	
	ng/ml	3.80	2.85	4.75	0.475	0.950	Siemens Atellica IM
	nmol/l	1.26	0.945	1.58	0.160	0.320	
ng/ml	3.83	2.87	4.79	0.480	0.960	Siemens Centaur	
nmol/l	1.27	0.953	1.59	0.160	0.320		
ng/ml	4.29	3.22	5.36	0.535	1.07	Siemens/DPC Immulite 2000/2500	
nmol/l	1.42	1.07	1.77	0.175	0.350		
ng/ml	4.02	3.02	5.02	0.500	1.00	TOSOH AIA Series	
nmol/l	1.33	0.998	1.66	0.165	0.330		
ng/ml	4.53	3.40	5.66	0.565	1.13	Tosoh AIA-CL Series	
nmol/l	1.50	1.13	1.87	0.185	0.370		
CA 125	U/ml	125	100	150	12.5	25.0	Abbott Alinity
	U/ml	122	97.6	146	12.0	24.0	Abbott Architect
	U/ml	69.7	55.8	83.6	6.95	13.9	Beckman Access/LXi725
	U/ml	69.8	55.8	83.8	7.00	14.0	Beckman Dxl 600/800
	U/ml	92.5	74.0	111	9.25	18.5	BioMerieux VIDAS
	U/ml	117	93.6	140	11.5	23.0	DiaSorin Liaison XL
	U/ml	97.1	77.7	117	9.95	19.9	Fujirebio Lumipulse G Series
	U/ml	43.2	34.6	51.8	4.30	8.60	Immunotech IRMA
	U/ml	82.9	66.3	99.5	8.30	16.6	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	82.4	65.9	98.9	8.25	16.5	Roche Cobas 4000/e411
	U/ml	78.3	62.6	94.0	7.85	15.7	Roche Cobas e402/e801

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	81.1	64.9	97.3	8.10	16.2	Roche Cobas e601/ 602
	U/ml	81.9	65.5	98.3	8.20	16.4	Roche Elecsys
	U/ml	122	97.6	146	12.0	24.0	Shenzhen YHLO iFlash Series
	U/ml	106	84.8	127	10.5	21.0	Siemens Atellica IM
	U/ml	90.7	72.6	109	9.15	18.3	Siemens Centaur CA125 II
	U/ml	86.9	69.5	104	8.55	17.1	Siemens Centaur OV Kit
	U/ml	59.1	47.3	70.9	5.90	11.8	Siemens/DPC Immulite 2000/2500
	U/ml	177	142	212	17.5	35.0	TOSOH AIA Series
	U/ml	122	97.6	146	12.0	24.0	Tosoh AIA-CL Series
CA 15-3	U/ml	37.7	30.2	45.2	3.75	7.50	Abbott Alinity i
	U/ml	38.5	30.8	46.2	3.85	7.70	Abbott Architect
	U/ml	19.9	15.9	23.9	2.00	4.00	Beckman Access/LXi725
	U/ml	19.6	15.7	23.5	1.95	3.90	Beckman Dxl 600/800
	U/ml	36.0	28.8	43.2	3.60	7.20	DiaSorin Liaison XL
	U/ml	37.6	30.1	45.1	3.75	7.50	Fujirebio Lumipulse G Series
	U/ml	37.0	29.6	44.4	3.70	7.40	Immunotech IRMA
	U/ml	30.1	24.1	36.1	3.00	6.00	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	36.5	29.2	43.8	3.65	7.30	Roche Cobas 4000/e411
	U/ml	36.7	29.4	44.0	3.65	7.30	Roche Cobas e402/e801
	U/ml	37.1	29.7	44.5	3.70	7.40	Roche Cobas e601/ 602
	U/ml	37.2	29.8	44.6	3.70	7.40	Roche Elecsys
	U/ml	38.4	30.7	46.1	3.85	7.70	Shenzhen YHLO iFlash Series
	U/ml	33.3	26.6	40.0	3.35	6.70	Siemens Atellica IM
	U/ml	31.4	25.1	37.7	3.15	6.30	Siemens Centaur
	U/ml	41.1	32.9	49.3	4.10	8.20	Siemens/DPC Immulite 2000/2500
	U/ml	40.5	32.4	48.6	4.05	8.10	TOSOH AIA Series
	U/ml	35.9	28.7	43.1	3.60	7.20	Tosoh AIA-CL Series
	CA 19-9	U/ml	155	124	186	15.5	31.0
U/ml		157	126	188	15.5	31.0	Abbott Architect XR
U/ml		291	233	349	29.0	58.0	Beckman Access/LXi725
U/ml		261	209	313	26.0	52.0	Beckman Dxl 600/800
U/ml		66.5	53.2	79.8	6.65	13.3	bioMerieux, VIDAS
U/ml		102	81.6	122	10.0	20.0	DiaSorin Liaison XL
U/ml		108	86.4	130	11.0	22.0	Izotop RIA
U/ml		116	92.8	139	11.5	23.0	Ortho Vitros 3600/5600/ECi/XT 7600
U/ml		72.3	57.8	86.8	7.25	14.5	Roche Cobas 4000/e411
U/ml		78.5	62.8	94.2	7.85	15.7	Roche Cobas e402/e801
U/ml		73.3	58.6	88.0	7.35	14.7	Roche Cobas e601/ 602
U/ml		74.7	59.8	89.6	7.45	14.9	Roche Elecsys

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CA 19-9	U/ml	46.5	37.2	55.8	4.65	9.30	Shenzhen YHLO iFlash Series
	U/ml	117	93.6	140	11.5	23.0	Siemens Atellica IM
	U/ml	100	80.0	120	10.0	20.0	Siemens Centaur
	U/ml	226	181	271	22.5	45.0	Siemens/DPC Immulite 2000/2500
	U/ml	27.8	22.2	33.4	2.80	5.60	Sysmex HISCL Series
	U/ml	69.2	55.4	83.0	6.90	13.8	TOSOH AIA Series
	U/ml	73.8	59.0	88.6	7.40	14.8	Tosoh AIA-CL Series
Carbamazepine	µg/ml	8.75	7.00	10.5	0.875	1.75	Abbott Architect (CMIA)
	µmol/l	37.0	29.6	44.4	3.70	7.40	
	µg/ml	7.92	6.34	9.50	0.790	1.58	Abbott Alinity (PETINA)
	µmol/l	33.5	26.8	40.2	3.35	6.70	
	µg/ml	8.16	6.53	9.79	0.815	1.63	Abbott Architect (PETINIA)
	µmol/l	34.5	27.6	41.4	3.45	6.90	
	µg/ml	8.49	6.79	10.2	0.855	1.71	Beckman AU Instruments
	µmol/l	35.9	28.7	43.1	3.60	7.20	
	µg/ml	8.65	6.92	10.4	0.875	1.75	EMIT
	µmol/l	36.6	29.3	43.9	3.65	7.30	
	µg/ml	9.13	7.30	11.0	0.935	1.87	Roche Cobas 4000/c311
	µmol/l	38.6	30.9	46.3	3.85	7.70	
	µg/ml	8.82	7.06	10.6	0.890	1.78	Roche Cobas 6000/8000
	µmol/l	37.3	29.8	44.8	3.75	7.50	
µg/ml	7.33	5.86	8.80	0.735	1.47	Siemens/DPC Immulite 2000/2500	
µmol/l	31.0	24.8	37.2	3.10	6.20		
µg/ml	7.97	6.38	9.56	0.795	1.59	Vitros	
µmol/l	33.7	27.0	40.4	3.35	6.70		
CEA	ng/ml = µg/l	26.7	21.4	32.0	2.65	5.30	Abbott Alinity i
	ng/ml = µg/l	27.2	21.8	32.6	2.70	5.40	Abbott Architect
	ng/ml = µg/l	25.2	20.2	30.2	2.50	5.00	Beckman Access/LXi725
	ng/ml = µg/l	24.2	19.4	29.0	2.40	4.80	Beckman Dxl 600/800
	ng/ml = µg/l	24.4	19.5	29.3	2.45	4.90	Beckman/Immunotech IRMA
	ng/ml = µg/l	24.6	19.7	29.5	2.45	4.90	bioMerieux, VIDAS
	ng/ml = µg/l	25.3	20.2	30.4	2.55	5.10	DiaSorin Liaison XL

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	33.1	26.5	39.7	3.30	6.60	Finecare
	ng/ml = µg/l	38.8	31.0	46.6	3.90	7.80	Fujirebio Lumipulse G Series
	ng/ml = µg/l	25.9	20.7	31.1	2.60	5.20	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml = µg/l	21.3	17.0	25.6	2.15	4.30	Roche Cobas 4000/e411
	ng/ml = µg/l	20.7	16.6	24.8	2.05	4.10	Roche Cobas e402/e801
	ng/ml = µg/l	20.8	16.6	25.0	2.10	4.20	Roche Cobas e601/ 602
	ng/ml = µg/l	20.9	16.7	25.1	2.10	4.20	Roche Elecsys
	ng/ml = µg/l	23.7	19.0	28.4	2.35	4.70	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	28.1	22.5	33.7	2.80	5.60	Siemens Atellica IM
	ng/ml = µg/l	27.2	21.8	32.6	2.70	5.40	Siemens Centaur
	ng/ml = µg/l	32.9	26.3	39.5	3.30	6.60	Siemens/DPC Immulite 2000/2500
	ng/ml = µg/l	22.0	17.6	26.4	2.20	4.40	Sysmex HISCL Series
	ng/ml = µg/l	31.6	25.3	37.9	3.15	6.30	Tosoh
ng/ml = µg/l	33.9	27.1	40.7	3.40	6.80	Tosoh AIA-CL Series	
Cortisol	nmol/l µg/dl	538 19.4	404 14.6	672 24.2	67.0 2.40	134 4.80	Abbott Alinity i
	nmol/l µg/dl	546 19.7	410 14.8	682 24.6	68.0 2.45	136 4.90	Abbott Architect
	nmol/l µg/dl	649 23.4	487 17.6	811 29.2	81.0 2.90	162 5.80	Beckman Access/LXi725
	nmol/l µg/dl	571 20.6	428 15.5	714 25.7	71.5 2.55	143 5.10	Beckman Dxl 600/800
	nmol/l µg/dl	570 20.5	428 15.4	712 25.6	71.0 2.55	142 5.10	bioMerieux, VIDAS

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	742	557	927	92.5	185	DiaSorin Liaison XL
	µg/dl	26.7	20.0	33.4	3.35	6.70	
	nmol/l	792	594	990	99.0	198	Finecare
	µg/dl	28.5	21.4	35.6	3.55	7.10	
	nmol/l	718	539	897	89.5	179	Immunotech RIA
	µg/dl	25.8	19.4	32.2	3.20	6.40	
	nmol/l	575	431	719	72.0	144	Ortho Vitros 3600/5600/ECi/XT 7600
	µg/dl	20.7	15.5	25.9	2.60	5.20	
	nmol/l	611	458	764	76.5	153	Roche Cobas 4000/e411
	µg/dl	22.0	16.5	27.5	2.75	5.50	
	nmol/l	611	458	764	76.5	153	Roche Cobas 4000/e411 Gen II
	µg/dl	22.0	16.5	27.5	2.75	5.50	
	nmol/l	603	452	754	75.5	151	Roche Cobas e402/e801
	µg/dl	21.7	16.3	27.1	2.70	5.40	
	nmol/l	596	447	745	74.5	149	Roche Cobas e402/e801 Gen II
	µg/dl	21.5	16.1	26.9	2.70	5.40	
	nmol/l	619	464	774	77.5	155	Roche Cobas e601/ 602
	µg/dl	22.3	16.7	27.9	2.80	5.60	
	nmol/l	615	461	769	77.0	154	Roche Cobas e601/602 Gen II
	µg/dl	22.1	16.6	27.6	2.75	5.50	
nmol/l	589	442	736	73.5	147	Roche Elecsys	
µg/dl	21.2	15.9	26.5	2.65	5.30		
nmol/l	605	454	756	75.5	151	Shenzhen YHLO iFlash Series	
µg/dl	21.8	16.4	27.2	2.70	5.40		
nmol/l	674	506	842	84.0	168	Siemens Atellica IM	
µg/dl	24.3	18.2	30.4	3.05	6.10		
nmol/l	697	523	871	87.0	174	Siemens Centaur	
µg/dl	25.1	18.8	31.4	3.15	6.30		
nmol/l	565	424	706	70.5	141	Siemens/DPC Immulite 2000/2500	
µg/dl	20.3	15.2	25.4	2.55	5.10		
nmol/l	657	493	821	82.0	164	TOSOH AIA Series	
µg/dl	23.7	17.8	29.6	2.95	5.90		
nmol/l	591	443	739	74.0	148	Tosoh AIA-CL Series	
µg/dl	21.3	16.0	26.6	2.65	5.30		
DHEA-S	µmol/l	10.8	8.64	13.0	1.10	2.20	Abbott Alinity i
	µmol/l	10.7	8.56	12.8	1.05	2.10	Abbott Architect
	µmol/l	9.31	7.45	11.2	0.945	1.89	Beckman Access/LXi725
	µmol/l	8.94	7.15	10.7	0.880	1.76	Beckman Dxl 600/800
	µmol/l	8.66	6.93	10.4	0.870	1.74	DiaSorin Liaison

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	11.7	9.36	14.0	1.15	2.30	Roche Cobas 4000/e411
	µmol/l	12.1	9.68	14.5	1.20	2.40	Roche Cobas e402/e801
	µmol/l	12.1	9.68	14.5	1.20	2.40	Roche Cobas e601/ 602
	µmol/l	12.1	9.68	14.5	1.20	2.40	Roche Elecsys
	µmol/l	11.5	9.20	13.8	1.15	2.30	Shenzhen YHLO iFlash Series
	µmol/l	8.67	6.94	10.4	0.865	1.73	Siemens Atellica IM
	µmol/l	8.80	7.04	10.6	0.900	1.80	Siemens Centaur
	µmol/l	9.33	7.46	11.2	0.935	1.87	Siemens/DPC Immulite 1000
	µmol/l	9.27	7.42	11.1	0.915	1.83	Siemens/DPC Immulite 2000/2500
	µmol/l	11.1	8.88	13.3	1.10	2.20	TOSOH AIA Series
	µmol/l	10.7	8.56	12.8	1.05	2.10	Tosoh AIA-CL Series
Digoxin	ng/ml	1.70	1.36	2.04	0.170	0.340	Abbott Architect (CMIA)
	nmol/l	2.18	1.74	2.62	0.220	0.440	
	ng/ml	2.14	1.71	2.57	0.215	0.430	Abbott Alinity (CMIA)
	nmol/l	2.74	2.19	3.29	0.275	0.550	
	ng/ml	2.11	1.69	2.53	0.210	0.420	Abbott Alinity (PETINA)
	nmol/l	2.70	2.16	3.24	0.270	0.540	
	ng/ml	2.15	1.72	2.58	0.215	0.430	Beckman AU Instruments
	nmol/l	2.75	2.20	3.30	0.275	0.550	
	ng/ml	2.09	1.67	2.51	0.210	0.420	Beckman Dxl 600/800
	nmol/l	2.68	2.14	3.22	0.270	0.540	
	ng/ml	2.19	1.75	2.63	0.220	0.440	Roche Cobas 4000/e411
	nmol/l	2.80	2.24	3.36	0.280	0.560	
	ng/ml	2.06	1.65	2.47	0.205	0.410	Roche Cobas C303/501/502/503/701
	nmol/l	2.64	2.11	3.17	0.265	0.530	
	ng/ml	2.03	1.62	2.44	0.205	0.410	Roche Cobas e402/e801
	nmol/l	2.60	2.08	3.12	0.260	0.520	
	ng/ml	2.10	1.68	2.52	0.210	0.420	Roche Cobas e601/602
	nmol/l	2.69	2.15	3.23	0.270	0.540	
ng/ml	2.05	1.64	2.46	0.205	0.410	Siemens Atellica CH	
nmol/l	2.62	2.10	3.14	0.260	0.520		
ng/ml	2.43	1.94	2.92	0.245	0.490	Siemens Atellica IM	
nmol/l	3.11	2.49	3.73	0.310	0.620		
ng/ml	2.25	1.80	2.70	0.225	0.450	Siemens/DPC Immulite 2000/2500	
nmol/l	2.88	2.30	3.46	0.290	0.580		
Ferritin	ng/ml = µg/l	87.5	70.0	105	8.75	17.5	Abbott Architect Chemilum
	ng/ml = µg/l	84.3	67.4	101	8.35	16.7	Abbott Architect Quantia

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	52.7	42.2	63.2	5.25	10.5	Beckman Access/LXi725
	ng/ml = µg/l	69.7	55.8	83.6	6.95	13.9	Beckman AU Instruments
	ng/ml = µg/l	51.2	41.0	61.4	5.10	10.2	Beckman Dxl 600/800
	ng/ml = µg/l	63.4	50.7	76.1	6.35	12.7	bioMerieux, VIDAS
	ng/ml = µg/l	82.7	66.2	99.2	8.25	16.5	DiaSorin Liaison XL
	ng/ml = µg/l	94.1	75.3	113	9.45	18.9	Lifotronic eCL
	ng/ml = µg/l	51.5	41.2	61.8	5.15	10.3	Ortho Vitros 3600/5600/ECi/XT/7600
	ng/ml = µg/l	87.9	70.3	106	9.05	18.1	Roche Cobas 4000/c311
	ng/ml = µg/l	85.0	68.0	102	8.50	17.0	Roche Cobas C303/501/502/503/701/702
	ng/ml = µg/l	85.1	68.1	102	8.45	16.9	Roche Cobas e402/e801
	ng/ml = µg/l	92.9	74.3	112	9.55	19.1	Roche Elecsys / Cobas e411
	ng/ml = µg/l	86.4	69.1	104	8.80	17.6	Roche Integra
	ng/ml = µg/l	91.8	73.4	110	9.10	18.2	Roche Modular E170 /Cobas e601/602
	ng/ml = µg/l	69.8	55.8	83.8	7.00	14.0	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	57.1	45.7	68.5	5.70	11.4	Siemens Atellica IM
	ng/ml = µg/l	59.1	47.3	70.9	5.90	11.8	Siemens Centaur
	ng/ml = µg/l	83.9	67.1	101	8.55	17.1	Siemens Dimension
ng/ml = µg/l	68.3	54.6	82.0	6.85	13.7	Siemens/DPC Immulite 2000/2500	
ng/ml = µg/l	57.0	45.6	68.4	5.70	11.4	TOSOH AIA Series	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	56.1	44.9	67.3	5.60	11.2	Tosoh AIA-CL Series
Folate	ng/ml	4.63	3.52	5.74	0.555	1.11	Abbott Alinity i
	nmol/l	10.5	7.98	13.0	1.25	2.50	
	ng/ml	4.27	3.25	5.29	0.510	1.02	Abbott Architect
	nmol/l	9.69	7.36	12.0	1.16	2.31	
	ng/ml	5.12	3.89	6.35	0.615	1.23	Beckman Access/LXi725
	nmol/l	11.6	8.82	14.4	1.40	2.80	
	ng/ml	5.16	3.92	6.40	0.620	1.24	Beckman Dxl 600/800 - A14208
	nmol/l	11.7	8.89	14.5	1.40	2.80	
	ng/ml	5.12	3.89	6.35	0.615	1.23	Beckman Dxl 600/800 - A98032
	nmol/l	11.6	8.82	14.4	1.40	2.80	
	ng/ml	2.32	1.76	2.88	0.280	0.560	DiaSorin Liaison XL
	nmol/l	5.27	4.01	6.53	0.630	1.26	
	ng/ml	9.30	7.07	11.5	1.10	2.20	Lifotronic eCL
	nmol/l	21.1	16.0	26.2	2.55	5.10	
	ng/ml	2.74	2.08	3.40	0.330	0.660	Ortho Vitros 3600/5600/ECi/XT/7600
	nmol/l	6.21	4.72	7.70	0.745	1.49	
	ng/ml	4.54	3.45	5.63	0.545	1.09	Roche e402/e801
	nmol/l	10.3	7.83	12.8	1.25	2.50	
	ng/ml	17.0	12.9	21.1	2.05	4.10	Shenzhen YHLO iFlash Series
	nmol/l	38.5	29.3	47.7	4.60	9.20	
ng/ml	8.38	6.37	10.4	1.01	2.02	Siemens Atellica IM	
nmol/l	19.0	14.4	23.6	2.30	4.60		
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	2.59	1.97	3.21	0.310	0.620	Siemens Dimension	
nmol/l	5.88	4.47	7.29	0.705	1.41		
ng/ml	3.51	2.67	4.35	0.420	0.840	Siemens/DPC Immulite 2000	
nmol/l	7.96	6.05	9.87	0.955	1.91		
ng/ml	13.9	10.6	17.2	1.65	3.30	Tosoh AIA-CL Series	
nmol/l	31.6	24.0	39.2	3.80	7.60		
Free T3	ng/dl	0.774	0.581	0.967	0.097	0.193	Abbott Alinity, 2 point cal
	pg/ml	7.75	5.81	9.69	0.970	1.94	
	pmol/l	11.9	8.93	14.9	1.50	3.00	
	ng/dl	0.774	0.581	0.967	0.097	0.193	Abbott Alinity, 6 point cal
	pg/ml	7.75	5.81	9.69	0.970	1.94	
	pmol/l	11.9	8.93	14.9	1.50	3.00	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	0.754	0.566	0.942	0.094	0.188	Abbott Architect, 2 point cal
	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	0.761	0.571	0.951	0.095	0.190	Abbott Architect, 6 point cal
	pg/ml	7.62	5.72	9.52	0.950	1.90	
	pmol/l	11.7	8.78	14.6	1.45	2.90	
	ng/dl	0.670	0.503	0.837	0.084	0.167	Beckman Access/LXi725
	pg/ml	6.71	5.03	8.39	0.840	1.68	
	pmol/l	10.3	7.73	12.9	1.30	2.60	
	ng/dl	0.597	0.448	0.746	0.075	0.149	Beckman Dxl 600/800
	pg/ml	5.98	4.49	7.47	0.745	1.49	
	pmol/l	9.18	6.89	11.5	1.16	2.32	
	ng/dl	0.780	0.585	0.975	0.098	0.195	BioMerieux VIDAS
	pg/ml	7.81	5.86	9.76	0.975	1.95	
	pmol/l	12.0	9.00	15.0	1.50	3.00	
	ng/dl	0.930	0.698	1.16	0.115	0.230	DiaSorin Liaison
	pg/ml	9.31	6.98	11.6	1.15	2.29	
	pmol/l	14.3	10.7	17.9	1.80	3.60	
	ng/dl	0.988	0.741	1.24	0.126	0.252	DiaSorin Liaison XL
	pg/ml	9.90	7.43	12.4	1.25	2.50	
	pmol/l	15.2	11.4	19.0	1.90	3.80	
	ng/dl	0.605	0.454	0.756	0.076	0.151	Finecare
	pg/ml	6.05	4.54	7.56	0.755	1.51	
	pmol/l	9.30	6.98	11.6	1.15	2.30	
ng/dl	0.975	0.731	1.22	0.123	0.245	Fujirebio Lumipulse G Series	
pg/ml	9.76	7.32	12.2	1.22	2.44		
pmol/l	15.0	11.3	18.7	1.85	3.70		
ng/dl	0.845	0.634	1.06	0.108	0.215	Lifotronic eCL	
pg/ml	8.46	6.35	10.6	1.07	2.14		
pmol/l	13.0	9.75	16.3	1.65	3.30		
ng/dl	1.92	1.44	2.40	0.240	0.480	Ortho Vitros 3600/5600/ECi/XT 7600	
pg/ml	19.2	14.4	24.0	2.40	4.80		
pmol/l	29.5	22.1	36.9	3.70	7.40		
ng/dl	0.904	0.678	1.13	0.113	0.226	Roche Cobas 4000/e411	
pg/ml	9.05	6.79	11.3	1.13	2.25		
pmol/l	13.9	10.4	17.4	1.75	3.50		
ng/dl	0.891	0.668	1.11	0.110	0.219	Roche Cobas e402/e801	
pg/ml	8.92	6.69	11.2	1.14	2.28		
pmol/l	13.7	10.3	17.1	1.70	3.40		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	0.910	0.683	1.14	0.115	0.230	Roche Cobas e601/ 602
	pg/ml	9.11	6.83	11.4	1.15	2.29	
	pmol/l	14.0	10.5	17.5	1.75	3.50	
	ng/dl	0.891	0.668	1.11	0.110	0.219	Roche Elecsys
	pg/ml	8.92	6.69	11.2	1.14	2.28	
	pmol/l	13.7	10.3	17.1	1.70	3.40	
	ng/dl	0.878	0.659	1.10	0.111	0.222	Shenzhen YHLO iFlash Series
	pg/ml	8.79	6.59	11.0	1.11	2.21	
	pmol/l	13.5	10.1	16.9	1.70	3.40	
	ng/dl	0.819	0.614	1.02	0.101	0.201	Siemens Atellica IM
	pg/ml	8.20	6.15	10.3	1.05	2.10	
	pmol/l	12.6	9.45	15.8	1.60	3.20	
	ng/dl	0.767	0.575	0.959	0.096	0.192	Siemens Centaur
	pg/ml	7.68	5.76	9.60	0.960	1.92	
	pmol/l	11.8	8.85	14.8	1.50	3.00	
	ng/dl	0.676	0.507	0.845	0.085	0.169	Siemens/DPC Immulite 2000/2500
	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	0.878	0.659	1.10	0.111	0.222	Sysex HISCL Series	
pg/ml	8.79	6.59	11.0	1.11	2.21		
pmol/l	13.5	10.1	16.9	1.70	3.40		
ng/dl	1.10	0.825	1.38	0.140	0.280	TOSOH AIA Series	
pg/ml	11.0	8.25	13.8	1.40	2.80		
pmol/l	16.9	12.7	21.1	2.10	4.20		
ng/dl	0.871	0.653	1.09	0.110	0.219	Tosoh AIA-CL Series	
pg/ml	8.72	6.54	10.9	1.09	2.18		
pmol/l	13.4	10.1	16.7	1.65	3.30		
Free T4	ng/dl	1.70	1.28	2.12	0.210	0.420	Abbott Alinity i
	pg/ml	17.0	12.8	21.2	2.10	4.20	
	pmol/l	21.8	16.4	27.2	2.70	5.40	
	ng/dl	1.76	1.32	2.20	0.220	0.440	Abbott Architect
	pg/ml	17.5	13.1	21.9	2.20	4.40	
	pmol/l	22.5	16.9	28.1	2.80	5.60	
	ng/dl	1.80	1.35	2.25	0.225	0.450	Beckman Access/LXi725
	pg/ml	18.0	13.5	22.5	2.25	4.50	
	pmol/l	23.1	17.3	28.9	2.90	5.80	
	ng/dl	1.74	1.31	2.17	0.215	0.430	Beckman Dxl 600/800
	pg/ml	17.4	13.1	21.7	2.15	4.30	
	pmol/l	22.3	16.7	27.9	2.80	5.60	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.46	1.85	3.07	0.305	0.610	bioMerieux, VIDAS-FT4N Kit
	pg/ml	24.6	18.5	30.7	3.05	6.10	
	pmol/l	31.5	23.6	39.4	3.95	7.90	
	ng/dl	2.40	1.80	3.00	0.300	0.600	bioMerieux, VIDIA
	pg/ml	24.0	18.0	30.0	3.00	6.00	
	pmol/l	30.8	23.1	38.5	3.85	7.70	
	ng/dl	2.53	1.90	3.16	0.315	0.630	DiaSorin Liaison
	pg/ml	25.3	19.0	31.6	3.15	6.30	
	pmol/l	32.4	24.3	40.5	4.05	8.10	
	ng/dl	2.80	2.10	3.50	0.350	0.700	DiaSorin Liaison XL
	pg/ml	28.0	21.0	35.0	3.50	7.00	
	pmol/l	35.9	26.9	44.9	4.50	9.00	
	ng/dl	1.38	1.04	1.72	0.170	0.340	Fineware
	pg/ml	13.8	10.4	17.2	1.70	3.40	
	pmol/l	17.7	13.3	22.1	2.20	4.40	
	ng/dl	1.67	1.25	2.09	0.210	0.420	Fujirebio Lumipulse G Series
	pg/ml	16.7	12.5	20.9	2.10	4.20	
	pmol/l	21.4	16.1	26.7	2.65	5.30	
	ng/dl	1.59	1.19	1.99	0.200	0.400	Immunotech RIA
	pg/ml	15.9	11.9	19.9	2.00	4.00	
	pmol/l	20.4	15.3	25.5	2.55	5.10	
	ng/dl	1.36	1.02	1.70	0.170	0.340	Lifotronic eCL
	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	1.91	1.43	2.39	0.240	0.480	Maccura I Series	
pg/ml	19.1	14.3	23.9	2.40	4.80		
pmol/l	24.5	18.4	30.6	3.05	6.10		
ng/dl	4.95	3.71	6.19	0.620	1.24	Ortho Vitros 3600/5600/ECi/XT/7600	
pg/ml	49.5	37.1	61.9	6.20	12.4		
pmol/l	63.4	47.6	79.2	7.90	15.8		
ng/dl	2.25	1.69	2.81	0.280	0.560	Roche Cobas 4000/e411	
pg/ml	22.5	16.9	28.1	2.80	5.60		
pmol/l	28.8	21.6	36.0	3.60	7.20		
ng/dl	2.29	1.72	2.86	0.285	0.570	Roche Cobas e402/e801	
pg/ml	22.9	17.2	28.6	2.85	5.70		
pmol/l	29.3	22.0	36.6	3.65	7.30		
ng/dl	2.23	1.67	2.79	0.280	0.560	Roche Cobas e601/ 602	
pg/ml	22.3	16.7	27.9	2.80	5.60		
pmol/l	28.6	21.5	35.7	3.55	7.10		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.27	1.70	2.84	0.285	0.570	Roche Elecsys
	pg/ml	22.7	17.0	28.4	2.85	5.70	
	pmol/l	29.1	21.8	36.4	3.65	7.30	
	ng/dl	1.70	1.28	2.12	0.210	0.420	Shenzhen YHLO iFlash Series
	pg/ml	17.0	12.8	21.2	2.10	4.20	
	pmol/l	21.8	16.4	27.2	2.70	5.40	
	ng/dl	1.83	1.37	2.29	0.230	0.460	Siemens Atellica IM
	pg/ml	18.3	13.7	22.9	2.30	4.60	
	pmol/l	23.4	17.6	29.2	2.90	5.80	
	ng/dl	1.80	1.35	2.25	0.225	0.450	Siemens Centaur
	pg/ml	18.0	13.5	22.5	2.25	4.50	
	pmol/l	23.1	17.3	28.9	2.90	5.80	
	ng/dl	1.91	1.43	2.39	0.240	0.480	Siemens Dimension Exl LOCI
	pg/ml	19.1	14.3	23.9	2.40	4.80	
	pmol/l	24.5	18.4	30.6	3.05	6.10	
	ng/dl	2.54	1.91	3.17	0.315	0.630	Siemens/DPC Immulite 1000
	pg/ml	25.4	19.1	31.7	3.15	6.30	
	pmol/l	32.6	24.5	40.7	4.05	8.10	
	ng/dl	2.38	1.79	2.97	0.295	0.590	Siemens/DPC Immulite 2000/2500
	pg/ml	23.8	17.9	29.7	2.95	5.90	
	pmol/l	30.5	22.9	38.1	3.80	7.60	
	ng/dl	2.25	1.69	2.81	0.280	0.560	Sysmex HISCL Series
	pg/ml	22.5	16.9	28.1	2.80	5.60	
	pmol/l	28.9	21.7	36.1	3.60	7.20	
ng/dl	2.21	1.66	2.76	0.275	0.550	TOSOH AIA Series	
pg/ml	22.1	16.6	27.6	2.75	5.50		
pmol/l	28.3	21.2	35.4	3.55	7.10		
ng/dl	2.18	1.64	2.72	0.270	0.540	Tosoh AIA-CL Series	
pg/ml	21.8	16.4	27.2	2.70	5.40		
pmol/l	27.9	20.9	34.9	3.50	7.00		
FSH	mU/ml	23.2	18.6	27.8	2.30	4.60	Abbott Alinity i
	mU/ml	23.5	18.8	28.2	2.35	4.70	Abbott Architect
	mU/ml	26.3	21.0	31.6	2.65	5.30	Beckman Access/LXi725
	mU/ml	27.4	21.9	32.9	2.75	5.50	Beckman Dxl 600/800
	mU/ml	28.9	23.1	34.7	2.90	5.80	bioMerieux, VIDAS
	mU/ml	37.8	30.2	45.4	3.80	7.60	DiaSorin Liaison XL
	mU/ml	19.0	15.2	22.8	1.90	3.80	Finecare
	mU/ml	24.1	19.3	28.9	2.40	4.80	Lifotronic eCL
	mU/ml	24.7	19.8	29.6	2.45	4.90	Maccura I Series

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	19.9	15.9	23.9	2.00	4.00	Ortho Vitros 3600/5600/ECi/XT/7600
	mU/ml	25.8	20.6	31.0	2.60	5.20	Roche Cobas 4000/e411
	mU/ml	24.2	19.4	29.0	2.40	4.80	Roche Cobas e402/e801
	mU/ml	24.2	19.4	29.0	2.40	4.80	Roche Cobas e601/602
	mU/ml	24.7	19.8	29.6	2.45	4.90	Roche Elecsys
	mU/ml	23.9	19.1	28.7	2.40	4.80	Shenzhen YHLO iFlash Series
	mU/ml	29.1	23.3	34.9	2.90	5.80	Siemens Atellica IM
	mU/ml	28.4	22.7	34.1	2.85	5.70	Siemens Centaur
	mU/ml	23.5	18.8	28.2	2.35	4.70	Siemens/DPC Immulite 2000/2500
	mU/ml	29.5	23.6	35.4	2.95	5.90	TOSOH AIA Series
	mU/ml	27.1	21.7	32.5	2.70	5.40	Tosoh AIA-CL Series
Gentamicin	µg/ml	1.96	1.57	2.35	0.195	0.390	Abbott Architect (CMIA)
	µmol/l	4.10	3.28	4.92	0.410	0.820	
	µg/ml	2.29	1.83	2.75	0.230	0.460	Abbott Alinity (PETINA)
	µmol/l	4.80	3.84	5.76	0.480	0.960	
	µg/ml	1.73	1.38	2.08	0.175	0.350	Cobas c501/502/701/702/311 KIMS
	µmol/l	3.62	2.90	4.34	0.360	0.720	
	µg/ml	2.06	1.65	2.47	0.205	0.410	EMIT
	µmol/l	4.31	3.45	5.17	0.430	0.860	
Growth Hormone (GH)	µg/ml	1.85	1.48	2.22	0.185	0.370	Siemens Atellica CH
	µmol/l	3.86	3.09	4.63	0.385	0.770	
	ng/ml	4.60	3.68	5.52	0.460	0.920	Beckman Access/LXi725
	µU/ml	13.8	11.0	16.6	1.40	2.80	
	ng/ml	4.40	3.52	5.28	0.440	0.880	Beckman Dxl 600/800
	µU/ml	13.2	10.6	15.8	1.30	2.60	
	ng/ml	5.06	4.05	6.07	0.505	1.01	DiaSorin Liaison XL
	µU/ml	15.2	12.2	18.2	1.50	3.00	
	ng/ml	5.06	4.05	6.07	0.505	1.01	IDS iSYS
	µU/ml	15.2	12.2	18.2	1.50	3.00	
	ng/ml	5.86	4.69	7.03	0.585	1.17	Roche Cobas 4000/e411
	µU/ml	17.6	14.1	21.1	1.75	3.50	
	ng/ml	5.66	4.53	6.79	0.565	1.13	Roche Cobas e402/e801
	µU/ml	17.0	13.6	20.4	1.70	3.40	
	ng/ml	5.73	4.58	6.88	0.575	1.15	Roche Cobas e601/ 602
	µU/ml	17.2	13.8	20.6	1.70	3.40	
	ng/ml	5.86	4.69	7.03	0.585	1.17	Siemens/DPC Immulite 2000/2500
	µU/ml	17.6	14.1	21.1	1.75	3.50	
ng/ml	4.90	3.92	5.88	0.490	0.980	Tosoh AIA-CL Series	
µU/ml	14.7	11.8	17.6	1.45	2.90		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	84.7	67.8	102	8.65	17.3	Abbott Alinity
	KIU/l = IU/ml	88.8	71.0	107	9.10	18.2	Abbott Architect
	KIU/l = IU/ml	110	88.0	132	11.0	22.0	Beckman AU analysers
	KIU/l = IU/ml	87.7	70.2	105	8.65	17.3	bioMerieux, VIDAS
	KIU/l = IU/ml	102	81.6	122	10.0	20.0	Boditech Med Inc i-CHROMA
	KIU/l = IU/ml	90.6	72.5	109	9.20	18.4	Enzyme-Linked Immunosorbent Assay (ELISA)
	KIU/l = IU/ml	103	82.4	124	10.5	21.0	Phadia Immucap instruments
	KIU/l = IU/ml	115	92.0	138	11.5	23.0	Roche Cobas 4000/e411
	KIU/l = IU/ml	108	86.4	130	11.0	22.0	Roche Cobas e402/e801
	KIU/l = IU/ml	110	88.0	132	11.0	22.0	Roche Cobas e601/ 602
	KIU/l = IU/ml	114	91.2	137	11.5	23.0	Roche Elecsys
	KIU/l = IU/ml	99.4	79.5	119	9.80	19.6	Siemens Atellica IM
	KIU/l = IU/ml	97.4	77.9	117	9.80	19.6	Siemens Centaur

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	91.7	73.4	110	9.15	18.3	Siemens/Dade Behring Nephelometer
	KIU/l = IU/ml	105	84.0	126	10.5	21.0	Siemens/DPC Immulite 1000
	KIU/l = IU/ml	96.0	76.8	115	9.50	19.0	Siemens/DPC Immulite 2000/2500
	KIU/l = IU/ml	90.0	72.0	108	9.00	18.0	Tosoh
	KIU/l = IU/ml	87.9	70.3	106	9.05	18.1	Tosoh AIA-CL Series
Insulin	mU/l	10.6	7.95	13.3	1.35	2.70	Abbott Alinity i
	µU/ml	10.6	7.95	13.3	1.35	2.70	
	mU/l	11.6	8.70	14.5	1.45	2.90	Abbott Architect
	µU/ml	11.6	8.70	14.5	1.45	2.90	
	mU/l	12.7	9.53	15.9	1.60	3.20	Beckman Access/LXi725
	µU/ml	12.7	9.53	15.9	1.60	3.20	
	mU/l	12.4	9.30	15.5	1.55	3.10	Beckman Dxl 600/800
	µU/ml	12.4	9.30	15.5	1.55	3.10	
	mU/l	18.4	13.8	23.0	2.30	4.60	DiaSorin Liaison XL
	µU/ml	18.4	13.8	23.0	2.30	4.60	
	mU/l	14.2	10.7	17.7	1.75	3.50	Lifotronic eCL
	µU/ml	14.2	10.7	17.7	1.75	3.50	
	mU/l	13.4	10.1	16.7	1.65	3.30	Ortho Vitros 3600/5600/ECi/XT 7600
	µU/ml	13.4	10.1	16.7	1.65	3.30	
	mU/l	15.1	11.3	18.9	1.90	3.80	Roche Cobas 4000/e411
	µU/ml	15.1	11.3	18.9	1.90	3.80	
	mU/l	15.1	11.3	18.9	1.90	3.80	Roche Cobas 6000/8000
	µU/ml	15.1	11.3	18.9	1.90	3.80	
	mU/l	15.2	11.4	19.0	1.90	3.80	Roche Elecsys
	µU/ml	15.2	11.4	19.0	1.90	3.80	
mU/l	13.4	10.7	16.1	1.35	2.70	Shenzhen YHLO iFlash Series	
µU/ml	13.4	10.7	16.1	1.35	2.70		
mU/l	14.9	11.2	18.6	1.85	3.70	Siemens Atellica IM	
µU/ml	14.9	11.2	18.6	1.85	3.70		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	15.0	11.3	18.7	1.85	3.70	Siemens Centaur XP/Classic
	µU/ml	15.0	11.3	18.7	1.85	3.70	
	mU/l	14.7	11.8	17.6	1.45	2.90	TOSOH AIA Series
	µU/ml	14.7	11.8	17.6	1.45	2.90	
	mU/l	14.9	11.9	17.9	1.50	3.00	Tosoh AIA-CL Series
	µU/ml	14.9	11.9	17.9	1.50	3.00	
Luteinising Hormone (LH)	mU/ml	28.9	23.1	34.7	2.90	5.80	Abbott Alinity i
	mU/ml	28.9	23.1	34.7	2.90	5.80	Abbott Architect
	mU/ml	32.8	26.2	39.4	3.30	6.60	Beckman Access/LXi725
	mU/ml	32.1	25.7	38.5	3.20	6.40	Beckman Dxl 600/800
	mU/ml	34.2	27.4	41.0	3.40	6.80	bioMerieux, VIDAS
	mU/ml	43.4	34.7	52.1	4.35	8.70	Boditech Med Inc i-CHROMA
	mU/ml	53.4	42.7	64.1	5.35	10.7	DiaSorin Liaison XL
	mU/ml	51.4	41.1	61.7	5.15	10.3	Finecare
	mU/ml	43.4	34.7	52.1	4.35	8.70	Maccura I Series
	mU/ml	42.2	33.8	50.6	4.20	8.40	Ortho Vitros 3600/5600/ECi/XT 7600
	mU/ml	40.0	32.0	48.0	4.00	8.00	Roche Cobas 4000/e411
	mU/ml	38.1	30.5	45.7	3.80	7.60	Roche Cobas e402/e801
	mU/ml	39.0	31.2	46.8	3.90	7.80	Roche Cobas e601/ 602
	mU/ml	39.5	31.6	47.4	3.95	7.90	Roche Elecsys
	mU/ml	35.6	28.5	42.7	3.55	7.10	Siemens Atellica IM
	mU/ml	34.0	27.2	40.8	3.40	6.80	Siemens Centaur
	mU/ml	44.3	35.4	53.2	4.45	8.90	Siemens/DPC Immulite 2000
	mU/ml	35.9	28.7	43.1	3.60	7.20	TOSOH AIA Series
	mU/ml	33.0	26.4	39.6	3.30	6.60	Tosoh AIA-CL Series
Oestradiol	pg/ml	206	165	247	20.5	41.0	Abbott Alinity i
	pmol/l	756	605	907	75.5	151	
	pg/ml	208	166	250	21.0	42.0	Abbott Architect
	pmol/l	764	611	917	76.5	153	
	pg/ml	270	216	324	27.0	54.0	Beckman Access/LXi725
	pmol/l	994	795	1193	99.5	199	
	pg/ml	279	223	335	28.0	56.0	Beckman Access/LXi725 Sensitive B84493
	pmol/l	1026	821	1231	103	205	
	pg/ml	254	203	305	25.5	51.0	Beckman Dxl 600/800
	pmol/l	933	746	1120	93.5	187	
	pg/ml	253	202	304	25.5	51.0	Beckman Dxl 600/800 Sensitive B84493
	pmol/l	931	745	1117	93.0	186	
	pg/ml	443	354	532	44.5	89.0	bioMerieux, VIDAS
	pmol/l	1628	1302	1954	163	326	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	186	149	223	18.5	37.0	DiaSorin Liaison XL
	pmol/l	683	546	820	68.5	137	
	pg/ml	369	295	443	37.0	74.0	Ortho Vitros 3600/5600/ECi/XT 7600
	pmol/l	1355	1084	1626	136	271	
	pg/ml	225	180	270	22.5	45.0	Roche Cobas 4000/e411 (Estradiol II)
	pmol/l	826	661	991	82.5	165	
	pg/ml	226	181	271	22.5	45.0	Roche Cobas 4000/e411 (Estradiol III)
	pmol/l	830	664	996	83.0	166	
	pg/ml	234	187	281	23.5	47.0	Roche Cobas e402/e801 (Estradiol III)
	pmol/l	861	689	1033	86.0	172	
	pg/ml	226	181	271	22.5	45.0	Roche Cobas e601/ 602 (Estradiol III)
	pmol/l	830	664	996	83.0	166	
	pg/ml	227	182	272	22.5	45.0	Roche Cobas e601/ 602 Estradiol II
	pmol/l	835	668	1002	83.5	167	
	pg/ml	233	186	280	23.5	47.0	Roche Elecsys (Estradiol II)
	pmol/l	858	686	1030	86.0	172	
	pg/ml	229	183	275	23.0	46.0	Roche Elecsys (Estradiol III)
	pmol/l	842	674	1010	84.0	168	
	pg/ml	273	218	328	27.5	55.0	Shenzhen YHLO iFlash Series
	pmol/l	1003	802	1204	101	201	
pg/ml	345	276	414	34.5	69.0	Siemens Atellica IM	
pmol/l	1270	1016	1524	127	254		
pg/ml	326	261	391	32.5	65.0	Siemens Centaur	
pmol/l	1199	959	1439	120	240		
pg/ml	326	261	391	32.5	65.0	Siemens Centaur XP/XPT (eE2)	
pmol/l	1199	959	1439	120	240		
pg/ml	374	299	449	37.5	75.0	Siemens/DPC Immulite 2000/2500	
pmol/l	1374	1099	1649	138	275		
pg/ml	283	226	340	28.5	57.0	Tosoh AIA Series (E2)	
pmol/l	1042	834	1250	104	208		
pg/ml	266	213	319	26.5	53.0	Tosoh AIA Series (iE2-hsE2)	
pmol/l	978	782	1174	98.0	196		
pg/ml	240	192	288	24.0	48.0	Tosoh AIA-CL Series (E2)	
pmol/l	884	707	1061	88.5	177		
Paracetamol	mg/l	50.6	40.5	60.7	5.05	10.1	Abbott Alinity
	mmol/l	0.334	0.267	0.401	0.034	0.067	
	mg/l	48.9	39.1	58.7	4.90	9.80	Beckman AU Instruments
	mmol/l	0.323	0.258	0.388	0.033	0.065	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Paracetamol	mg/l	50.9	40.7	61.1	5.10	10.2	EMIT
	mmol/l	0.336	0.269	0.403	0.034	0.067	
	mg/l	47.1	37.7	56.5	4.70	9.40	Roche Cobas C303/501/502/503/701/702
	mmol/l	0.311	0.249	0.373	0.031	0.062	
	mg/l	47.6	38.1	57.1	4.75	9.50	Siemens Atellica CH
	mmol/l	0.314	0.251	0.377	0.032	0.063	
	µg/ml	18.0	14.4	21.6	1.80	3.60	Abbott Architect (CMIA)
	µmol/l	77.4	61.9	92.9	7.75	15.5	
Phenobarbital	µg/ml	16.5	13.2	19.8	1.65	3.30	Abbott Alinity (PETINA)
	µmol/l	71.0	56.8	85.2	7.10	14.2	
	µg/ml	17.3	13.8	20.8	1.75	3.50	Beckman AU Instruments
	µmol/l	74.4	59.5	89.3	7.45	14.9	
	µg/ml	16.8	13.4	20.2	1.70	3.40	EMIT
	µmol/l	72.5	58.0	87.0	7.25	14.5	
	µg/ml	16.1	12.9	19.3	1.60	3.20	Microgenics CEDIA assay
	µmol/l	69.6	55.7	83.5	6.95	13.9	
	µg/ml	18.0	14.4	21.6	1.80	3.60	Roche Cobas C303/501/502/503/701
	µmol/l	77.6	62.1	93.1	7.75	15.5	
	µg/ml	17.7	14.2	21.2	1.75	3.50	Roche Cobas E601/602/801
	µmol/l	76.5	61.2	91.8	7.65	15.3	
	µg/ml	17.2	13.8	20.6	1.70	3.40	Siemens Atellica CH
	µmol/l	74.2	59.4	89.0	7.40	14.8	
	µg/ml	17.0	13.6	20.4	1.70	3.40	Siemens/DPC Immulite 2000/2500
	µmol/l	73.1	58.5	87.7	7.30	14.6	
Phenytoin	µg/ml	17.7	14.2	21.2	1.75	3.50	Abbott Alinity
	µmol/l	70.0	56.0	84.0	7.00	14.0	
	µg/ml	16.2	13.0	19.4	1.60	3.20	Abbott Architect
	µmol/l	64.1	51.3	76.9	6.40	12.8	
	µg/ml	15.9	12.7	19.1	1.60	3.20	Beckman AU Instruments
	µmol/l	63.1	50.5	75.7	6.30	12.6	
	µg/ml	15.9	12.7	19.1	1.60	3.20	EMIT
	µmol/l	63.1	50.5	75.7	6.30	12.6	
	µg/ml	16.0	12.8	19.2	1.60	3.20	Roche Cobas 6000/8000
	µmol/l	63.2	50.6	75.8	6.30	12.6	
	µg/ml	18.0	14.4	21.6	1.80	3.60	Siemens Atellica CH
	µmol/l	71.4	57.1	85.7	7.15	14.3	
µg/ml	18.3	14.6	22.0	1.85	3.70	Siemens Dimension	
µmol/l	72.6	58.1	87.1	7.25	14.5		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 Expiry: 2028/07/28							
Size: 12 x 5 ml / 4 x 5 ml		Range					
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Phenytoin	µg/ml	16.2	13.0	19.4	1.60	3.20	Siemens/DPC Immulite 2000/2500
	µmol/l	64.1	51.3	76.9	6.40	12.8	
	µg/ml	17.4	13.9	20.9	1.75	3.50	Vitros
	µmol/l	69.1	55.3	82.9	6.90	13.8	
Progesterone	ng/ml	6.79	5.43	8.15	0.680	1.36	Abbott Alinity i
	nmol/l	21.7	17.4	26.0	2.15	4.30	
	ng/ml	7.11	5.69	8.53	0.710	1.42	Abbott Architect
	nmol/l	22.7	18.2	27.2	2.25	4.50	
	ng/ml	8.80	7.04	10.6	0.900	1.80	Beckman Access Prog. Cal 33555
	nmol/l	28.1	22.5	33.7	2.80	5.60	
	ng/ml	8.64	6.91	10.4	0.880	1.76	Beckman Access Prog.DE Cal. A80773
	nmol/l	27.6	22.1	33.1	2.75	5.50	
	ng/ml	8.70	6.96	10.4	0.850	1.70	Beckman DXI Prog. Cal 33555
	nmol/l	27.8	22.2	33.4	2.80	5.60	
	ng/ml	8.42	6.74	10.1	0.840	1.68	Beckman DXI Prog.DE Cal. A80773
	nmol/l	26.9	21.5	32.3	2.70	5.40	
	ng/ml	8.33	6.66	10.0	0.835	1.67	bioMerieux, VIDAS (<= lot 1009311690)
	nmol/l	26.6	21.3	31.9	2.65	5.30	
	ng/ml	8.26	6.61	9.91	0.825	1.65	bioMerieux, VIDAS (>= lot 1009323920)
	nmol/l	26.4	21.1	31.7	2.65	5.30	
	ng/ml	8.92	7.14	10.7	0.890	1.78	DiaSorin Liaison XL
	nmol/l	28.5	22.8	34.2	2.85	5.70	
	ng/ml	10.2	8.16	12.2	1.00	2.00	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	32.6	26.1	39.1	3.25	6.50	
ng/ml	8.36	6.69	10.0	0.820	1.64	Roche Cobas 4000/e411 (Prog. II)	
nmol/l	26.7	21.4	32.0	2.65	5.30		
ng/ml	8.26	6.61	9.91	0.825	1.65	Roche Cobas 4000/e411 (Prog. III)	
nmol/l	26.4	21.1	31.7	2.65	5.30		
ng/ml	8.29	6.63	9.95	0.830	1.66	Roche Cobas e402/e801 (Prog III)	
nmol/l	26.5	21.2	31.8	2.65	5.30		
ng/ml	8.64	6.91	10.4	0.880	1.76	Roche Cobas e601/ 602 (Prog. II)	
nmol/l	27.6	22.1	33.1	2.75	5.50		
ng/ml	8.73	6.98	10.5	0.885	1.77	Roche Cobas e601/ 602 (Prog. III)	
nmol/l	27.9	22.3	33.5	2.80	5.60		
ng/ml	8.33	6.66	10.0	0.835	1.67	Roche Elecsys (Prog. II)	
nmol/l	26.6	21.3	31.9	2.65	5.30		
ng/ml	8.45	6.76	10.1	0.825	1.65	Roche Elecsys (Prog. III)	
nmol/l	27.0	21.6	32.4	2.70	5.40		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	10.5	8.40	12.6	1.05	2.10	Shenzhen YHLO iFlash Series
	nmol/l	33.6	26.9	40.3	3.35	6.70	
	ng/ml	6.70	5.36	8.04	0.670	1.34	Siemens Atellica IM
	nmol/l	21.4	17.1	25.7	2.15	4.30	
	ng/ml	6.35	5.08	7.62	0.635	1.27	Siemens Centaur
	nmol/l	20.3	16.2	24.4	2.05	4.10	
	ng/ml	9.11	7.29	10.9	0.895	1.79	Siemens/DPC Immulite 1000
	nmol/l	29.1	23.3	34.9	2.90	5.80	
	ng/ml	7.07	5.66	8.48	0.705	1.41	Siemens/DPC Immulite 2000/2500
	nmol/l	22.6	18.1	27.1	2.25	4.50	
	ng/ml	9.20	7.36	11.0	0.900	1.80	TOSOH AIA Series
	nmol/l	29.4	23.5	35.3	2.95	5.90	
	ng/ml	8.73	6.98	10.5	0.885	1.77	Tosoh AIA-CL Series
	nmol/l	27.9	22.3	33.5	2.80	5.60	
Prolactin	µIU/mL	615	492	738	61.5	123	Abbott Alinity i
	µIU/mL	592	474	710	59.0	118	Abbott Architect
	µIU/mL	463	370	556	46.5	93.0	Beckman Access/LXi725
	µIU/mL	442	354	530	44.0	88.0	Beckman Dxl 600/800
	µIU/mL	630	504	756	63.0	126	bioMerieux, VIDAS
	µIU/mL	593	474	712	59.5	119	DiaSorin Liaison XL
	µIU/mL	561	449	673	56.0	112	Immunotech IRMA
	µIU/mL	518	414	622	52.0	104	Lifotronic eCL
	µIU/mL	427	342	512	42.5	85.0	Ortho Vitros 3600/5600/ECi/XT 7600
	µIU/mL	619	495	743	62.0	124	Roche Cobas 4000/e411
	µIU/mL	583	466	700	58.5	117	Roche Cobas e402/e801 PRL II
	µIU/mL	611	489	733	61.0	122	Roche Cobas e601/ 602
	µIU/mL	609	487	731	61.0	122	Roche Elecsys
	µIU/mL	606	485	727	60.5	121	Roche Elecsys/E170/Cobas e601/602 PRLII
	µIU/mL	680	544	816	68.0	136	Shenzhen YHLO iFlash Series
	µIU/mL	376	301	451	37.5	75.0	Siemens Atellica IM
	µIU/mL	378	302	454	38.0	76.0	Siemens Centaur
	µIU/mL	420	336	504	42.0	84.0	Siemens/DPC Immulite 2000/2500
	µIU/mL	506	405	607	50.5	101	TOSOH AIA Series
	µIU/mL	611	489	733	61.0	122	Tosoh AIA-CL Series
PSA Free	ng/ml = µg/l	8.47	6.35	10.6	1.07	2.13	Abbott Alinity i
	ng/ml = µg/l	8.40	6.30	10.5	1.05	2.10	Abbott Architect

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	9.17	6.88	11.5	1.17	2.33	Beckman Access standard to WHO IRP96/670
	ng/ml = µg/l	9.18	6.89	11.5	1.16	2.32	Beckman Access standardised to Hybritech
	ng/ml = µg/l	7.18	5.39	8.97	0.895	1.79	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	9.02	6.77	11.3	1.14	2.28	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	9.16	6.87	11.5	1.17	2.34	BioMerieux VIDAS
	ng/ml = µg/l	7.15	5.36	8.94	0.895	1.79	DiaSorin Liaison XL
	ng/ml = µg/l	5.86	4.40	7.32	0.730	1.46	Ortho Vitros 3600/5600/ECi
	ng/ml = µg/l	5.85	4.39	7.31	0.730	1.46	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	7.11	5.33	8.89	0.890	1.78	Roche Cobas 4000/e411
	ng/ml = µg/l	6.62	4.97	8.27	0.825	1.65	Roche Cobas e402/e801
	ng/ml = µg/l	6.93	5.20	8.66	0.865	1.73	Roche Cobas e601/602
	ng/ml = µg/l	6.81	5.11	8.51	0.850	1.70	Roche Elecsys
	ng/ml = µg/l	9.19	6.89	11.5	1.16	2.31	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	8.32	6.24	10.4	1.04	2.08	Siemens Atellica IM
	ng/ml = µg/l	8.03	6.02	10.0	0.985	1.97	Siemens Centaur
	ng/ml = µg/l	6.86	5.15	8.57	0.855	1.71	Siemens/DPC Immulite 2000/2500
ng/ml = µg/l	6.65	4.99	8.31	0.830	1.66	TOSOH AIA Series	
ng/ml = µg/l	8.66	6.50	10.8	1.07	2.14	Tosoh AIA-CL Series	
PSA Total	ng/ml = µg/l	7.04	5.28	8.80	0.880	1.76	Abbott Alinity i

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	6.87	5.15	8.59	0.860	1.72	Abbott Architect
	ng/ml = µg/l	10.7	8.03	13.4	1.35	2.70	Beckman Access standard to WHO IRP96/670
	ng/ml = µg/l	10.6	7.95	13.3	1.35	2.70	Beckman Access standardised to Hybritech
	ng/ml = µg/l	8.20	6.15	10.3	1.05	2.10	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	10.4	7.80	13.0	1.30	2.60	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	8.21	6.16	10.3	1.05	2.09	bioMerieux, VIDAS
	ng/ml = µg/l	8.67	6.50	10.8	1.07	2.13	bioMerieux, Vidas TPSA
	ng/ml = µg/l	8.67	6.50	10.8	1.07	2.13	DiaSorin Liaison
	ng/ml = µg/l	8.05	6.04	10.1	1.03	2.05	DiaSorin Liaison XL
	ng/ml = µg/l	6.52	4.89	8.15	0.815	1.63	Immunotech IRMA
	ng/ml = µg/l	9.04	6.78	11.3	1.13	2.26	Ortho Vitros 3600/5600/ECi
	ng/ml = µg/l	9.01	6.76	11.3	1.15	2.29	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	9.68	7.26	12.1	1.21	2.42	Roche Cobas 4000/e411
	ng/ml = µg/l	9.07	6.80	11.3	1.12	2.23	Roche Cobas e402/e801
	ng/ml = µg/l	9.33	7.00	11.7	1.19	2.37	Roche Cobas e601/602
	ng/ml = µg/l	9.53	7.15	11.9	1.19	2.37	Roche Elecsys
	ng/ml = µg/l	13.7	10.3	17.1	1.70	3.40	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	8.57	6.43	10.7	1.07	2.13	Siemens Atellica IM
ng/ml = µg/l	8.41	6.31	10.5	1.05	2.09	Siemens Centaur	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	7.53	5.65	9.41	0.940	1.88	Siemens Dimension
	ng/ml = µg/l	7.50	5.63	9.37	0.935	1.87	Siemens Immulite 2000/2500, Total PSA
	ng/ml = µg/l	6.23	4.67	7.79	0.780	1.56	TOSOH AIA Series
	ng/ml = µg/l	6.93	5.20	8.66	0.865	1.73	Tosoh AIA-CL Series
Salicylate	mg/dl	16.6	13.3	19.9	1.65	3.30	EMIT
	mmol/l	1.20	0.960	1.44	0.120	0.240	
	mg/dl	15.7	12.6	18.8	1.55	3.10	Roche Cobas c303/501/502/503
	mmol/l	1.14	0.912	1.37	0.115	0.230	
SHBG	nmol/l	35.7	28.6	42.8	3.55	7.10	Abbott Alinity i
	nmol/l	39.3	31.4	47.2	3.95	7.90	Abbott Architect
	nmol/l	34.5	27.6	41.4	3.45	6.90	Beckman Access
	nmol/l	33.3	26.6	40.0	3.35	6.70	Beckman Dxl 600/800
	nmol/l	33.8	27.0	40.6	3.40	6.80	Roche analysers
	nmol/l	32.4	25.9	38.9	3.25	6.50	Roche e402/e801
	nmol/l	33.3	26.6	40.0	3.35	6.70	Siemens Atellica IM
	nmol/l	33.8	27.0	40.6	3.40	6.80	Siemens/DPC Immulite 2000/2500
	nmol/l	33.3	26.6	40.0	3.35	6.70	Tosoh AIA-CL Series
Testosterone	ng/dl	403	322	484	40.5	81.0	Abbott Alinity i
	ng/ml	4.03	3.22	4.84	0.405	0.810	
	nmol/l	14.0	11.2	16.8	1.40	2.80	
	ng/dl	403	322	484	40.5	81.0	Abbott Architect
	ng/ml	4.03	3.22	4.84	0.405	0.810	
	nmol/l	14.0	11.2	16.8	1.40	2.80	
	ng/dl	395	316	474	39.5	79.0	Abbott Architect 2nd gen
	ng/ml	3.95	3.16	4.74	0.395	0.790	
	nmol/l	13.7	11.0	16.4	1.35	2.70	
	ng/dl	386	309	463	38.5	77.0	Beckman Access/LXi725
	ng/ml	3.86	3.09	4.63	0.385	0.770	
	nmol/l	13.4	10.7	16.1	1.35	2.70	
	ng/dl	354	283	425	35.5	71.0	Beckman Dxl 600/800
	ng/ml	3.54	2.83	4.25	0.355	0.710	
	nmol/l	12.3	9.84	14.8	1.25	2.50	
ng/dl	366	293	439	36.5	73.0	bioMerieux VIDAS Testosterone II	
ng/ml	3.66	2.93	4.39	0.365	0.730		
nmol/l	12.7	10.2	15.2	1.25	2.50		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	651	521	781	65.0	130	Boditech Med Inc i-CHROMA
	ng/ml	6.51	5.21	7.81	0.650	1.30	
	nmol/l	22.6	18.1	27.1	2.25	4.50	
	ng/dl	236	189	283	23.5	47.0	DiaSorin Liaison XL
	ng/ml	2.36	1.89	2.83	0.235	0.470	
	nmol/l	8.19	6.55	9.83	0.820	1.64	
	ng/dl	372	298	446	37.0	74.0	Immunotech RIA
	ng/ml	3.72	2.98	4.46	0.370	0.740	
	nmol/l	12.9	10.3	15.5	1.30	2.60	
	ng/dl	369	295	443	37.0	74.0	LC/MS
	ng/ml	3.69	2.95	4.43	0.370	0.740	
	nmol/l	12.8	10.2	15.4	1.30	2.60	
	ng/dl	450	360	540	45.0	90.0	Lifotronic eCL
	ng/ml	4.49	3.59	5.39	0.450	0.900	
	nmol/l	15.6	12.5	18.7	1.55	3.10	
	ng/dl	519	415	623	52.0	104	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml	5.18	4.14	6.22	0.520	1.04	
	nmol/l	18.0	14.4	21.6	1.80	3.60	
	ng/dl	432	346	518	43.0	86.0	Roche Cobas 4000/e411 Test II
	ng/ml	4.32	3.46	5.18	0.430	0.860	
	nmol/l	15.0	12.0	18.0	1.50	3.00	
	ng/dl	438	350	526	44.0	88.0	Roche Cobas e402/e801 Test II
	ng/ml	4.38	3.50	5.26	0.440	0.880	
	nmol/l	15.2	12.2	18.2	1.50	3.00	
ng/dl	441	353	529	44.0	88.0	Roche Cobas e601/ 602 Test II	
ng/ml	4.41	3.53	5.29	0.440	0.880		
nmol/l	15.3	12.2	18.4	1.55	3.10		
ng/dl	438	350	526	44.0	88.0	Roche Elecsys Test II	
ng/ml	4.38	3.50	5.26	0.440	0.880		
nmol/l	15.2	12.2	18.2	1.50	3.00		
ng/dl	349	279	419	35.0	70.0	Shenzhen YHLO iFlash Series	
ng/ml	3.48	2.78	4.18	0.350	0.700		
nmol/l	12.1	9.68	14.5	1.20	2.40		
ng/dl	398	318	478	40.0	80.0	Siemens Atellica IM	
ng/ml	3.97	3.18	4.76	0.395	0.790		
nmol/l	13.8	11.0	16.6	1.40	2.80		
ng/dl	406	325	487	40.5	81.0	Siemens Centaur XP/XPT TSTII	
ng/ml	4.06	3.25	4.87	0.405	0.810		
nmol/l	14.1	11.3	16.9	1.40	2.80		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)						
Lot. No: 2544EC Cat. No: IA3110 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	395	316	474	39.5	79.0	Siemens Centaur XP/XPT TSTO	
	ng/ml	3.95	3.16	4.74	0.395	0.790		
	nmol/l	13.7	11.0	16.4	1.35	2.70		
	ng/dl	507	406	608	50.5	101	Siemens/DPC Immulite 2000/2500	
		ng/ml	5.07	4.06	6.08	0.505		1.01
		nmol/l	17.6	14.1	21.1	1.75		3.50
	ng/dl	550	440	660	55.0	110	TOSOH AIA Series	
		ng/ml	5.50	4.40	6.60	0.550		1.10
		nmol/l	19.1	15.3	22.9	1.90		3.80
	ng/dl	568	454	682	57.0	114	Tosoh AIA-CL Series	
		ng/ml	5.67	4.54	6.80	0.565		1.13
		nmol/l	19.7	15.8	23.6	1.95		3.90
Theophylline	µg/ml	14.2	11.4	17.0	1.40	2.80	Abbott Alinity Enzyme-immu	
	µmol/l	78.6	62.9	94.3	7.85	15.7		
	µg/ml	14.1	11.3	16.9	1.40	2.80	Roche Cobas 6000/8000	
µmol/l	78.3	62.6	94.0	7.85	15.7			
	Thyroglobulin	ng/ml	43.5	32.6	54.4	5.45	10.9	Abbott Alinity i
		ng/ml	34.0	25.5	42.5	4.25	8.50	Beckman Access
ng/ml		33.8	25.4	42.2	4.20	8.40	Beckman Dxl 600/800	
ng/ml		37.2	27.9	46.5	4.65	9.30	Beckman IRMA	
ng/ml		29.8	22.4	37.2	3.70	7.40	DiaSorin Liaison XL	
ng/ml		30.4	22.8	38.0	3.80	7.60	DiaSorin, Liaison XL TG II Gen	
ng/ml		35.0	26.3	43.7	4.35	8.70	Roche Cobas 4000/e411	
ng/ml		34.6	26.0	43.2	4.30	8.60	Roche Cobas 4000/e411 Tg II	
ng/ml		35.2	26.4	44.0	4.40	8.80	Roche Cobas e402/e801 Tg II	
ng/ml		35.7	26.8	44.6	4.45	8.90	Roche Cobas e601/602	
ng/ml		35.8	26.9	44.7	4.45	8.90	Roche Cobas e601/602 Tg II	
ng/ml		33.4	25.1	41.7	4.15	8.30	Roche Elecsys	
ng/ml		34.4	25.8	43.0	4.30	8.60	Roche Elecsys Tg II	
ng/ml		20.0	15.0	25.0	2.50	5.00	Siemens/DPC Immulite 2000/2500	
ng/ml		37.9	28.4	47.4	4.75	9.50	TOSOH AIA Series	
ng/ml		33.8	25.4	42.2	4.20	8.40	Tosoh AIA-CL Series	
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.95	1.56	2.34	0.195	0.390	Abbott Alinity i	
	µU/ml = mIU/l	1.98	1.58	2.38	0.200	0.400	Abbott Architect	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.22	1.78	2.66	0.220	0.440	Access/LXi725 Fast TSH 2nd gen.
	µU/ml = mIU/l	2.15	1.72	2.58	0.215	0.430	Access/LXi725 hyper TSH 3rd gen.
	µU/ml = mIU/l	2.15	1.72	2.58	0.215	0.430	Beckman Dxl 600/800 1st generation
	µU/ml = mIU/l	2.16	1.73	2.59	0.215	0.430	Beckman DXI 600/800 Fast TSH
	µU/ml = mIU/l	2.13	1.70	2.56	0.215	0.430	Beckman DXI 600/800 Hyper TSH
	µU/ml = mIU/l	2.14	1.71	2.57	0.215	0.430	Beckman DXI600/800/ Access 2 (3rd IS)
	µU/ml = mIU/l	2.13	1.70	2.56	0.215	0.430	Biomerieux VIDAS TSH
	µU/ml = mIU/l	2.16	1.73	2.59	0.215	0.430	Biomerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	3.08	2.46	3.70	0.310	0.620	DiaSorin Liaison
	µU/ml = mIU/l	3.14	2.51	3.77	0.315	0.630	DiaSorin Liaison XL
	µU/ml = mIU/l	2.08	1.66	2.50	0.210	0.420	Finecare
	µU/ml = mIU/l	2.27	1.82	2.72	0.225	0.450	Fujirebio Lumipulse G Series
	µU/ml = mIU/l	1.71	1.37	2.05	0.170	0.340	Immunotech IRMA

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.72	2.18	3.26	0.270	0.540	Izotop IRMA
	µU/ml = mIU/l	2.67	2.14	3.20	0.265	0.530	Lifotronic eCL
	µU/ml = mIU/l	2.57	2.06	3.08	0.255	0.510	Maccura I Series
	µU/ml = mIU/l	2.34	1.87	2.81	0.235	0.470	Ortho Vitros TSH
	µU/ml = mIU/l	2.27	1.82	2.72	0.225	0.450	Ortho Vitros TSH3
	µU/ml = mIU/l	2.47	1.98	2.96	0.245	0.490	Roche Cobas 4000/e411
	µU/ml = mIU/l	2.31	1.85	2.77	0.230	0.460	Roche Cobas e402/e801
	µU/ml = mIU/l	2.50	2.00	3.00	0.250	0.500	Roche Cobas e601/ 602
	µU/ml = mIU/l	2.38	1.90	2.86	0.240	0.480	Roche Elecsys
	µU/ml = mIU/l	2.82	2.26	3.38	0.280	0.560	Shenzhen YHLO iFlash Series
	µU/ml = mIU/l	2.17	1.74	2.60	0.215	0.430	Siemens Atellica IM
	µU/ml = mIU/l	2.19	1.75	2.63	0.220	0.440	Siemens Centaur
	µU/ml = mIU/l	2.22	1.78	2.66	0.220	0.440	Siemens Centaur TSH3-Ultra

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	2.04	1.63	2.45	0.205	0.410	Siemens Dimension Exl LOCI
	µU/ml = mIU/l	2.29	1.83	2.75	0.230	0.460	Siemens/DPC Immulite 1000
	µU/ml = mIU/l	2.33	1.86	2.80	0.235	0.470	Siemens/DPC Immulite 2000/2500
	µU/ml = mIU/l	1.83	1.46	2.20	0.185	0.370	Sysmex HISCL Series
	µU/ml = mIU/l	2.72	2.18	3.26	0.270	0.540	TOSOH AIA Series
	µU/ml = mIU/l	2.61	2.09	3.13	0.260	0.520	Tosoh AIA-CL Series
Total Beta hCG	IU/ml	0.020	0.016	0.024	0.002	0.004	Abbott Alinity i
	mU/ml = IU/l	20.2	16.2	24.2	2.00	4.00	
	IU/ml	0.020	0.016	0.024	0.002	0.004	Abbott Architect
	mU/ml = IU/l	19.6	15.7	23.5	1.95	3.90	
	IU/ml	0.021	0.017	0.025	0.002	0.004	Beckman Access Total BhCG (5th IS)
	mU/ml = IU/l	21.2	17.0	25.4	2.10	4.20	
	IU/ml	0.021	0.017	0.025	0.002	0.004	Beckman Access/LXi725
	mU/ml = IU/l	21.3	17.0	25.6	2.15	4.30	
	IU/ml	0.022	0.018	0.026	0.002	0.004	Beckman Dxl 600/800
	mU/ml = IU/l	21.8	17.4	26.2	2.20	4.40	
	IU/ml	0.022	0.018	0.026	0.002	0.004	Beckman DXI Total BhCG (5th IS)
	mU/ml = IU/l	21.8	17.4	26.2	2.20	4.40	
	IU/ml	0.039	0.031	0.047	0.004	0.008	bioMerieux, VIDAS
	mU/ml = IU/l	39.0	31.2	46.8	3.90	7.80	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	0.063	0.050	0.076	0.007	0.013	Boditech Med Inc i-CHROMA
	mU/ml = IU/l	63.3	50.6	76.0	6.35	12.7	
	IU/ml	0.017	0.014	0.020	0.002	0.003	DiaSorin Liaison XL
	mU/ml = IU/l	17.3	13.8	20.8	1.75	3.50	
	IU/ml	0.048	0.038	0.058	0.005	0.010	Lifotronic eCL
	mU/ml = IU/l	48.4	38.7	58.1	4.85	9.70	
	IU/ml	0.044	0.035	0.053	0.005	0.009	Ortho Vitros 3600/5600/ECi/XT 7600
	mU/ml = IU/l	43.9	35.1	52.7	4.40	8.80	
	IU/ml	0.019	0.015	0.023	0.002	0.004	Radiometer AQT90 Flex
	mU/ml = IU/l	18.6	14.9	22.3	1.85	3.70	
	IU/ml	0.025	0.020	0.030	0.003	0.005	Roche Cobas Core EIA
	mU/ml = IU/l	25.2	20.2	30.2	2.50	5.00	
	IU/ml	0.025	0.020	0.030	0.003	0.005	Roche hCG + Beta e402/e801
	mU/ml = IU/l	25.1	20.1	30.1	2.50	5.00	
	IU/ml	0.019	0.015	0.023	0.002	0.004	Roche hCG STAT(Intact)
	mU/ml = IU/l	18.5	14.8	22.2	1.85	3.70	
	IU/ml	0.026	0.021	0.031	0.003	0.005	Roche hCG+Beta
	mU/ml = IU/l	25.7	20.6	30.8	2.55	5.10	
	IU/ml	0.015	0.012	0.018	0.002	0.003	Shenzhen YHLO iFlash Series
	mU/ml = IU/l	14.9	11.9	17.9	1.50	3.00	
	IU/ml	0.018	0.014	0.022	0.002	0.004	Siemens Atellica IM
	mU/ml = IU/l	18.2	14.6	21.8	1.80	3.60	
	IU/ml	0.018	0.014	0.022	0.002	0.004	Siemens Centaur
	mU/ml = IU/l	18.0	14.4	21.6	1.80	3.60	
	IU/ml	0.050	0.040	0.060	0.005	0.010	Siemens Dimension
	mU/ml = IU/l	49.8	39.8	59.8	5.00	10.0	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)						
Lot. No: 2544EC Cat. No: IA3110 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	0.063	0.050	0.076	0.007	0.013	Siemens/DPC Immulite 1000	
	mU/ml = IU/l	63.1	50.5	75.7	6.30	12.6		
	IU/ml	0.054	0.043	0.065	0.006	0.011	Siemens/DPC Immulite 2000	
	mU/ml = IU/l	54.2	43.4	65.0	5.40	10.8		
	IU/ml	0.043	0.034	0.052	0.005	0.009	TOSOH AIA Series	
	mU/ml = IU/l	42.8	34.2	51.4	4.30	8.60		
	IU/ml	0.055	0.044	0.066	0.006	0.011	Tosoh AIA-CL Series	
	mU/ml = IU/l	55.1	44.1	66.1	5.50	11.0		
	Total T3	ng/dl	204	153	255	25.5	51.0	Abbott Alinity i
		ng/ml	2.04	1.53	2.55	0.255	0.510	
		nmol/l	3.14	2.36	3.92	0.390	0.780	
		ng/dl	203	152	254	25.5	51.0	Abbott Architect
ng/ml		2.03	1.52	2.54	0.255	0.510		
nmol/l		3.12	2.34	3.90	0.390	0.780		
ng/dl		225	169	281	28.0	56.0	Beckman Access/LXi725	
ng/ml		2.26	1.70	2.82	0.280	0.560		
nmol/l		3.47	2.60	4.34	0.435	0.870		
ng/dl		223	167	279	28.0	56.0	Beckman Dxl 600/800	
ng/ml		2.23	1.67	2.79	0.280	0.560		
nmol/l		3.43	2.57	4.29	0.430	0.860		
ng/dl		240	180	300	30.0	60.0	bioMerieux, VIDAS	
ng/ml		2.40	1.80	3.00	0.300	0.600		
nmol/l		3.69	2.77	4.61	0.460	0.920		
ng/dl		175	131	219	22.0	44.0	DiaSorin Liaison XL	
ng/ml		1.75	1.31	2.19	0.220	0.440		
nmol/l		2.69	2.02	3.36	0.335	0.670		
ng/dl		175	131	219	22.0	44.0	Immunotech RIA	
ng/ml		1.76	1.32	2.20	0.220	0.440		
nmol/l		2.70	2.03	3.37	0.335	0.670		
ng/dl		177	133	221	22.0	44.0	Maccura I Series	
ng/ml		1.77	1.33	2.21	0.220	0.440		
nmol/l		2.72	2.04	3.40	0.340	0.680		
ng/dl	256	192	320	32.0	64.0	Ortho Vitros 3600/5600/ECi/XT/7600		
ng/ml	2.57	1.93	3.21	0.320	0.640			
nmol/l	3.95	2.96	4.94	0.495	0.990			

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	261	196	326	32.5	65.0	Roche Cobas 4000/e411
	ng/ml	2.62	1.97	3.27	0.325	0.650	
	nmol/l	4.02	3.02	5.02	0.500	1.00	
	ng/dl	274	206	342	34.0	68.0	Roche Cobas e402/e801
	ng/ml	2.75	2.06	3.44	0.345	0.690	
	nmol/l	4.22	3.17	5.27	0.525	1.05	
	ng/dl	262	197	327	32.5	65.0	Roche Cobas e601/ 602
	ng/ml	2.62	1.97	3.27	0.325	0.650	
	nmol/l	4.03	3.02	5.04	0.505	1.01	
	ng/dl	240	180	300	30.0	60.0	Shenzhen YHLO iFlash Series
	ng/ml	2.40	1.80	3.00	0.300	0.600	
	nmol/l	3.69	2.77	4.61	0.460	0.920	
	ng/dl	254	191	317	31.5	63.0	Siemens Atellica IM
	ng/ml	2.55	1.91	3.19	0.320	0.640	
	nmol/l	3.91	2.93	4.89	0.490	0.980	
	ng/dl	240	180	300	30.0	60.0	Siemens Centaur
	ng/ml	2.41	1.81	3.01	0.300	0.600	
	nmol/l	3.70	2.78	4.62	0.460	0.920	
ng/dl	209	157	261	26.0	52.0	Siemens/DPC Immulite 2000/2500	
ng/ml	2.10	1.58	2.62	0.260	0.520		
nmol/l	3.22	2.42	4.02	0.400	0.800		
ng/dl	216	162	270	27.0	54.0	TOSOH AIA Series	
ng/ml	2.16	1.62	2.70	0.270	0.540		
nmol/l	3.32	2.49	4.15	0.415	0.830		
ng/dl	216	162	270	27.0	54.0	Tosoh AIA-CL Series	
ng/ml	2.16	1.62	2.70	0.270	0.540		
nmol/l	3.32	2.49	4.15	0.415	0.830		
Total T4	ng/ml	79.6	59.7	99.5	9.95	19.9	Abbott Alinity i
	nmol/l	102	76.5	128	13.0	26.0	
	µg/dl	7.96	5.97	9.95	0.995	1.99	
	ng/ml	80.3	60.2	100	9.85	19.7	Abbott Architect
	nmol/l	103	77.3	129	13.0	26.0	
	µg/dl	8.03	6.02	10.0	0.985	1.97	
	ng/ml	92.8	69.6	116	11.6	23.2	Beckman Access/LXi725
	nmol/l	119	89.3	149	15.0	30.0	
	µg/dl	9.28	6.96	11.6	1.16	2.32	
	ng/ml	85.8	64.4	107	10.6	21.2	Beckman Dxl 600/800
	nmol/l	110	82.5	138	14.0	28.0	
	µg/dl	8.58	6.44	10.7	1.06	2.12	

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	92.8	69.6	116	11.6	23.2	bioMerieux, VIDAS
	nmol/l	119	89.3	149	15.0	30.0	
	µg/dl	9.28	6.96	11.6	1.16	2.32	
	ng/ml	67.2	50.4	84.0	8.40	16.8	DiaSorin Liaison XL
	nmol/l	86.1	64.6	108	11.0	21.9	
	µg/dl	6.72	5.04	8.40	0.840	1.68	
	ng/ml	63.5	47.6	79.4	7.95	15.9	Immunotech RIA
	nmol/l	81.4	61.1	102	10.3	20.6	
	µg/dl	6.35	4.76	7.94	0.795	1.59	
	ng/ml	81.1	60.8	101	9.95	19.9	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	104	78.0	130	13.0	26.0	
	µg/dl	8.11	6.08	10.1	0.995	1.99	
	ng/ml	83.5	62.6	104	10.3	20.5	Roche Cobas 4000/e411
	nmol/l	107	80.3	134	13.5	27.0	
	µg/dl	8.35	6.26	10.4	1.03	2.05	
	ng/ml	76.4	57.3	95.5	9.55	19.1	Roche Cobas e402/e801
	nmol/l	98.0	73.5	123	12.5	25.0	
	µg/dl	7.64	5.73	9.55	0.955	1.91	
	ng/ml	79.6	59.7	99.5	9.95	19.9	Roche Cobas e601/ 602
	nmol/l	102	76.5	128	13.0	26.0	
	µg/dl	7.96	5.97	9.95	0.995	1.99	
	ng/ml	79.6	59.7	99.5	9.95	19.9	Roche Elecsys
	nmol/l	102	76.5	128	13.0	26.0	
	µg/dl	7.96	5.97	9.95	0.995	1.99	
ng/ml	74.0	55.5	92.5	9.25	18.5	Shenzhen YHLO iFlash Series	
nmol/l	94.9	71.2	119	12.1	24.1		
µg/dl	7.40	5.55	9.25	0.925	1.85		
ng/ml	86.6	65.0	108	10.7	21.4	Siemens Atellica IM	
nmol/l	111	83.3	139	14.0	28.0		
µg/dl	8.66	6.50	10.8	1.07	2.14		
ng/ml	89.7	67.3	112	11.2	22.3	Siemens Centaur	
nmol/l	115	86.3	144	14.5	29.0		
µg/dl	8.97	6.73	11.2	1.12	2.23		
ng/ml	79.6	59.7	99.5	9.95	19.9	Siemens/DPC Immulite 2000/2500	
nmol/l	102	76.5	128	13.0	26.0		
µg/dl	7.96	5.97	9.95	0.995	1.99		
ng/ml	75.7	56.8	94.6	9.45	18.9	TOSOH AIA Series	
nmol/l	97.1	72.8	121	12.0	23.9		
µg/dl	7.57	5.68	9.46	0.945	1.89		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	98.3	73.7	123	12.4	24.7	Tosoh AIA-CL Series
	nmol/l	126	94.5	158	16.0	32.0	
	µg/dl	9.83	7.37	12.3	1.24	2.47	
Valproic Acid	µg/ml	85.0	68.0	102	8.50	17.0	Abbott Architect (CMIA)
	µmol/l	589	471	707	59.0	118	
	µg/ml	85.1	68.1	102	8.45	16.9	Abbott Alinity (CMIA)
	µmol/l	590	472	708	59.0	118	
	µg/ml	85.6	68.5	103	8.70	17.4	Abbott Alinity (PETINA)
	µmol/l	593	474	712	59.5	119	
	µg/ml	84.8	67.8	102	8.60	17.2	Abbott Architect (PETINIA)
	µmol/l	588	470	706	59.0	118	
	µg/ml	96.4	77.1	116	9.80	19.6	Beckman AU Instruments
	µmol/l	668	534	802	67.0	134	
	µg/ml	96.7	77.4	116	9.65	19.3	EMIT
	µmol/l	670	536	804	67.0	134	
	µg/ml	97.5	78.0	117	9.75	19.5	Ortho Vitros 4600/5600/5.1/XT 7600
	µmol/l	676	541	811	67.5	135	
	µg/ml	85.7	68.6	103	8.65	17.3	Roche Cobas 4000/c311
	µmol/l	594	475	713	59.5	119	
	µg/ml	84.0	67.2	101	8.50	17.0	Roche Cobas 6000/8000
	µmol/l	582	466	698	58.0	116	
	µg/ml	85.7	68.6	103	8.65	17.3	Siemens Atellica CH
	µmol/l	594	475	713	59.5	119	
µg/ml	81.1	64.9	97.3	8.10	16.2	Siemens Dimension	
µmol/l	562	450	674	56.0	112		
µg/ml	92.2	73.8	111	9.40	18.8	Siemens/DPC Immulite 2000/2500	
µmol/l	639	511	767	64.0	128		
Vancomycin	µg/ml	11.1	8.88	13.3	1.10	2.20	Abbott Architect (CMIA)
	µmol/l	7.46	5.97	8.95	0.745	1.49	
	µg/ml	11.2	8.96	13.4	1.10	2.20	Abbott Alinity (CMIA)
	µmol/l	7.51	6.01	9.01	0.750	1.50	
	µg/ml	11.0	8.80	13.2	1.10	2.20	Abbott Alinity (PETINA)
	µmol/l	7.42	5.94	8.90	0.740	1.48	
	µg/ml	9.51	7.61	11.4	0.945	1.89	Beckman Coulter Synchron LX / Unicel
	µmol/l	6.40	5.12	7.68	0.640	1.28	
	µg/ml	9.73	7.78	11.7	0.985	1.97	EMIT
	µmol/l	6.55	5.24	7.86	0.655	1.31	
µg/ml	9.60	7.68	11.5	0.950	1.90	Ortho Vitros Microslide Systems	
µmol/l	6.46	5.17	7.75	0.645	1.29		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	9.81	7.85	11.8	0.995	1.99	Roche Cobas 6000/8000
	µmol/l	6.60	5.28	7.92	0.660	1.32	
	µg/ml	10.3	8.24	12.4	1.05	2.10	Siemens Atellica CH
	µmol/l	6.90	5.52	8.28	0.690	1.38	
Vitamin B12	pg/ml	454	363	545	45.5	91.0	Abbott Alinity i
	pmol/l	335	268	402	33.5	67.0	
	pg/ml	491	393	589	49.0	98.0	Abbott Architect
	pmol/l	362	290	434	36.0	72.0	
	pg/ml	440	352	528	44.0	88.0	Beckman Access/LXi725
	pmol/l	325	260	390	32.5	65.0	
	pg/ml	417	334	500	41.5	83.0	Beckman Dxl 600/800
	pmol/l	308	246	370	31.0	62.0	
	pg/ml	474	379	569	47.5	95.0	DiaSorin Liaison XL
	pmol/l	350	280	420	35.0	70.0	
	pg/ml	660	528	792	66.0	132	Lifotronic eCL
	pmol/l	487	390	584	48.5	97.0	
	pg/ml	520	416	624	52.0	104	Ortho Vitros 3600/5600/ECi/XT 7600
	pmol/l	384	307	461	38.5	77.0	
	pg/ml	577	462	692	57.5	115	Roche Cobas 4000/e411 Gen II
	pmol/l	426	341	511	42.5	85.0	
	pg/ml	551	441	661	55.0	110	Roche Cobas e402/e801 Gen II
	pmol/l	407	326	488	40.5	81.0	
	pg/ml	580	464	696	58.0	116	Roche Cobas e601/ 602 Gen II
	pmol/l	428	342	514	43.0	86.0	
pg/ml	562	450	674	56.0	112	Roche Elecsys	
pmol/l	415	332	498	41.5	83.0		
pg/ml	587	470	704	58.5	117	Shenzhen YHLO iFlash Series	
pmol/l	433	346	520	43.5	87.0		
pg/ml	617	494	740	61.5	123	Siemens Atellica IM lot 13290	
pmol/l	455	364	546	45.5	91.0		
pg/ml	610	488	732	61.0	122	Siemens Centaur	
pmol/l	450	360	540	45.0	90.0		
pg/ml	503	402	604	50.5	101	Siemens Dimension	
pmol/l	371	297	445	37.0	74.0		
pg/ml	518	414	622	52.0	104	Siemens/DPC Immulite 2000	
pmol/l	382	306	458	38.0	76.0		
pg/ml	699	559	839	70.0	140	TOSOH AIA Series	
pmol/l	516	413	619	51.5	103		

Method		Immunoassay Premium Plus - Level 2 (IA PREMIUM PLUS 2)					
Lot. No: 2544EC Cat. No: IA3110 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	501	401	601	50.0	100	Tosoh AIA-CL Series
	pmol/l	370	296	444	37.0	74.0	