

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

<b>CAT. NO.</b> IA3110	<b>GTIN:</b> 05055273207262	<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> 1917EC	<b>EXPIRY:</b> 2022-05-28	

### 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. Aldosterone is present in control levels 2 and level 3 only. 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).

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	14.1	10.6	17.6	DRG ELISA
	ng/ml	4.67	3.51	5.83	
	nmol/l	13.1	9.83	16.4	DIAsource RIA
	ng/ml	4.34	3.25	5.43	
	nmol/l	12.2	9.15	15.3	DiaMetra ELISA
	ng/ml	4.04	3.03	5.05	
25-OH Vitamin D	nmol/l	69.4	52.1	86.8	Diasorin Liaison
	nmol/l	85.3	64.0	107	Siemens Centaur XP/XPT/Classic
	nmol/l	57.6	43.2	72.0	Roche Vitamin D Total
	nmol/l	53.5	40.1	66.9	HPLC
	nmol/l	56.0	42.0	70.0	ELISA
	nmol/l	61.2	45.9	76.5	Abbott Architect
	nmol/l	76.5	57.4	95.6	IDS iSYS
	nmol/l	89.3	67.0	112	Vitros ECi
	nmol/l	62.4	46.8	78.0	Tosoh Series
	nmol/l	69.6	52.2	87.0	BioMerieux Vidas
	nmol/l	56.5	42.4	70.6	Beckman DxI 600/800
	nmol/l	62.3	46.7	77.9	Fujirebio Lumipulse G Series
	nmol/l	62.8	47.1	78.5	Beckman Access 25 OH Vitamin D Total
	nmol/l	78.1	58.6	97.6	Diasorin Liaison XL
	nmol/l	65.2	48.9	81.5	Roche Vitamin D Total II
ACTH	pmol/l	15.6	11.7	19.5	Siemens Immulite 2000/2500
	pg/ml	70.9	53.2	88.6	
	pmol/l	18.2	13.7	22.8	Roche Cobas E411
	pg/ml	82.7	62.3	103	
	pmol/l	17.8	13.4	22.3	Roche Cobas 6000/8000
	pg/ml	80.9	60.9	101	
	pmol/l	28.5	21.4	35.6	CIS IRMA
	pg/ml	130	97.3	163	
	pmol/l	17.2	12.9	21.5	Roche Elecsys
	pg/ml	78.2	58.6	97.8	
	pmol/l	23.2	17.4	29.0	Diasorin Liaison
	pg/ml	105	79.1	131	
	pmol/l	27.7	20.8	34.6	Diasorin Liaison XL
	pg/ml	126	94.5	158	
Aldosterone	pmol/l	485	364	606	Immunotech RIA
	pg/ml	175	131	219	
	pmol/l	387	290	484	IDS iSYS
	pg/ml	140	105	175	
	pmol/l	367	275	459	Diasorin Liaison
	pg/ml	132	99.2	165	
	pmol/l	368	276	460	Diasorin Liaison XL
	pg/ml	133	100	166	

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Alpha-fetoprotein	KIU/l = IU/ml	43.6	34.9	52.3	Abbott Architect
	ng/ml	52.8	42.2	63.4	
	KIU/l = IU/ml	46.1	36.9	55.3	BioMerieux Vidas
	ng/ml	55.8	44.6	67.0	
	KIU/l = IU/ml	50.8	40.1	61.5	Siemens Centaur XP/XPT/Classic
	ng/ml	61.5	48.6	74.4	
	KIU/l = IU/ml	44.8	35.8	53.8	Siemens Immulite 2000/2500
	ng/ml	54.2	43.3	65.1	
	KIU/l = IU/ml	45.2	36.2	54.2	Siemens Immulite 1000
	ng/ml	54.7	43.8	65.6	
	KIU/l = IU/ml	40.9	32.7	49.1	Beckman DxI800
	ng/ml	49.5	39.6	59.4	
	KIU/l = IU/ml	49.9	39.9	59.9	Roche Elecsys
	ng/ml	60.4	48.3	72.5	
	KIU/l = IU/ml	47.8	38.2	57.4	Diasorin Liaison
	ng/ml	57.8	46.2	69.4	
	KIU/l = IU/ml	43.2	34.6	51.8	Beckman Access
	ng/ml	52.3	41.9	62.7	
	KIU/l = IU/ml	42.2	33.8	50.6	Tosoh Series
	ng/ml	51.1	40.9	61.3	
KIU/l = IU/ml	43.2	34.6	51.8	Vitros ECI	
ng/ml	44.9	35.9	53.9		
KIU/l = IU/ml	49.6	39.7	59.5	Roche Cobas 6000/8000	
ng/ml	60.0	48.0	72.0		
KIU/l = IU/ml	69.7	55.8	83.6	CIS IRMA	
ng/ml	84.3	67.5	101		
KIU/l = IU/ml	49.6	39.7	59.5	Roche Cobas E411	
ng/ml	60.0	48.0	72.0		
KIU/l = IU/ml	47.6	38.1	57.1	Fujirebio Lumipulse G Series	
ng/ml	57.6	46.1	69.1		
KIU/l = IU/ml	49.8	39.3	60.3	Siemens Centaur CP	
ng/ml	60.3	47.6	73.0		
KIU/l = IU/ml	49.7	39.8	59.6	Diasorin Liaison XL	
ng/ml	60.1	48.2	72.0		
Amikacin	µmol/l	15.1	12.1	18.1	Roche Cobas 6000/8000
	µg/ml	8.84	7.09	10.6	
	µmol/l	15.2	12.2	18.2	Gravimetric
Androstenedione	µg/ml	8.90	7.14	10.7	
	nmol/l	13.4	10.1	16.8	Siemens Immulite 2000
	ng/ml	3.85	2.90	4.80	
Beta-2-microglobulin	nmol/l	7.30	5.48	9.13	Diasorin Liaison XL
	ng/ml	2.10	1.57	2.63	
	µg/ml = mg/l	3.30	2.64	3.96	Abbott Architect
	µg/ml = mg/l	3.54	2.83	4.25	BioMerieux Vidas
	µg/ml = mg/l	3.32	2.66	3.98	Behring Nephelometer

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Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	µg/ml = mg/l	2.90	2.32	3.48	Siemens Immulite 2000/2500
	µg/ml = mg/l	3.62	2.90	4.34	Siemens Immulite 1000
	µg/ml = mg/l	3.09	2.47	3.71	Diasorin Liaison
	µg/ml = mg/l	3.37	2.70	4.04	Roche Cobas 6000/8000
	µg/ml = mg/l	2.88	2.30	3.46	Fujirebio Lumipulse G Series
	µg/ml = mg/l	2.87	2.30	3.44	Diasorin Liaison XL
C-Peptide	nmol/l	1.840	1.380	2.300	Siemens Immulite 2000/2500
	ng/ml	5.55	4.17	6.93	
	nmol/l	1.990	1.490	2.490	Roche Elecsys
	ng/ml	6.01	4.50	7.52	
	nmol/l	2.020	1.520	2.530	Roche Cobas 6000/8000
	ng/ml	6.10	4.59	7.61	
	nmol/l	1.780	1.340	2.230	Siemens Immulite 1000
	ng/ml	5.37	4.05	6.69	
	nmol/l	2.140	1.610	2.680	Diasorin Liaison
	ng/ml	6.46	4.86	8.06	
	nmol/l	1.980	1.490	2.480	Roche Cobas E411
	ng/ml	5.98	4.50	7.46	
	nmol/l	1.760	1.320	2.200	Abbott Architect
	ng/ml	5.31	3.99	6.63	
	nmol/l	1.390	1.040	1.740	Siemens Centaur XP/XPT/Classic
	ng/ml	4.20	3.15	5.25	
	nmol/l	1.750	1.310	2.190	Tosoh Series
	ng/ml	5.28	3.95	6.61	
nmol/l	2.220	1.670	2.780	Diasorin Liaison XL	
ng/ml	6.70	5.04	8.36		
CA 15-3	U/ml	39.3	31.4	47.2	Abbott Architect
	U/ml	36.6	29.3	43.9	BioMerieux Vidas
	U/ml	40.1	27.3	52.9	Siemens Centaur XP/XPT/Classic
	U/ml	36.8	29.4	44.2	Siemens Immulite 2000/2500
	U/ml	41.2	33.0	49.4	Siemens Immulite 1000
	U/ml	17.0	13.6	20.4	Beckman Dxl800
	U/ml	40.9	32.7	49.1	Roche Elecsys
	U/ml	44.4	35.5	53.3	Diasorin Liaison
	U/ml	17.1	13.7	20.5	Beckman Access
	U/ml	38.1	30.5	45.7	Tosoh Series
	U/ml	35.9	28.7	43.1	Vitros ECi
	U/ml	41.8	33.4	50.2	Roche Cobas 6000/8000
	U/ml	41.8	33.4	50.2	Roche Cobas E411
	U/ml	48.6	38.9	58.3	Fujirebio Lumipulse G Series
	U/ml	39.1	26.6	51.6	Siemens Centaur CP
U/ml	41.1	32.9	49.3	Diasorin Liaison XL	
CA 19-9	U/ml	74.5	59.6	89.4	BioMerieux Vidas
	U/ml	99.8	68.0	132	Siemens Centaur XP/XPT/Classic
	U/ml	69.6	55.7	83.5	Siemens Immulite 2000/2500
	U/ml	64.7	51.8	77.6	Siemens Immulite 1000

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	65.1	52.1	78.1	Beckman Dxl800
	U/ml	61.2	49.0	73.4	Roche Elecsys
	U/ml	86.4	69.1	104	Diasorin Liaison
	U/ml	73.2	58.6	87.8	Beckman Access
	U/ml	41.4	33.1	49.7	Tosoh Series
	U/ml	113	90.4	136	Vitros ECI
	U/ml	177	142	212	Abbott Architect XR/XR2 kit
	U/ml	63.0	50.4	75.6	Roche Cobas 6000/8000
	U/ml	63.7	51.0	76.4	Roche Cobas E411
	U/ml	102	81.6	122	Fujirebio Lumipulse G Series
	U/ml	96.1	65.3	127	Siemens Centaur CP
	U/ml	56.4	45.1	67.7	Mindray CL-2000i
	U/ml	89.9	71.9	108	Diasorin Liaison XL
CA125	U/ml	133	106	160	Abbott Architect
	U/ml	102	81.6	122	BioMerieux Vidas
	U/ml	114	77.5	151	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	117	79.6	154	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	115	92.0	138	Siemens Immulite 2000/2500
	U/ml	125	100	150	Siemens Immulite 1000
	U/ml	101	80.8	121	Beckman Dxl800
	U/ml	96.1	76.9	115	Roche Elecsys
	U/ml	134	107	161	Diasorin Liaison
	U/ml	101	80.8	121	Beckman Access
	U/ml	167	134	200	Tosoh Series
	U/ml	101	80.8	121	Vitros ECI
	U/ml	100	80.0	120	Roche Cobas E411
	U/ml	97.8	78.2	117	Roche Cobas 6000/8000
	U/ml	96.9	77.5	116	Fujirebio Lumipulse G Series
	U/ml	120	81.6	158	Siemens Centaur CP CA125 II kit
U/ml	209	167	251	Mindray CL-2000i	
U/ml	128	102	154	Diasorin Liaison XL	
Carbamazepine	µmol/l	38.4	30.7	46.1	Abbott Architect
	µg/ml	9.08	7.26	10.9	
	µmol/l	39.7	27.8	51.6	Siemens Centaur XP/XPT/Classic
	µg/ml	9.39	6.57	12.2	
	µmol/l	36.8	29.4	44.2	Siemens Dimension
	µg/ml	8.70	6.95	10.5	
	µmol/l	34.0	27.2	40.8	Siemens Immulite 2000/2500
	µg/ml	8.04	6.43	9.65	
	µmol/l	34.6	27.7	41.5	Siemens Immulite 1000
	µg/ml	8.18	6.55	9.81	
	µmol/l	37.9	30.3	45.5	Roche Integra
	µg/ml	8.96	7.16	10.8	
	µmol/l	35.1	28.1	42.1	Vitros
µg/ml	8.30	6.64	9.96		
µmol/l	37.6	30.1	45.1	Roche Cobas 6000/8000	
µg/ml	8.89	7.12	10.7		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	36.5	29.2	43.8	Beckman DxC
	µg/ml	8.63	6.90	10.4	
	µmol/l	40.3	32.2	48.4	Beckman AU400/600/640/2700/5400
	µg/ml	9.53	7.61	11.5	
	µmol/l	37.7	30.2	45.2	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	8.91	7.14	10.7	
Carcinoembryonic Antigen (CEA)	µmol/l	38.5	30.8	46.2	Gravimetric
	µg/ml	9.10	7.28	10.9	
	ng/ml = µg/l	26.0	20.8	31.2	Abbott Architect
	ng/ml = µg/l	24.1	19.3	28.9	BioMerieux Vidas
	ng/ml = µg/l	24.9	16.9	32.9	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	18.5	14.8	22.2	CIS RIA Coated tube
	ng/ml = µg/l	31.9	25.5	38.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	32.0	25.6	38.4	Siemens Immulite 1000
	ng/ml = µg/l	23.5	18.8	28.2	Beckman DxI800
	ng/ml = µg/l	22.2	17.8	26.6	Roche Elecsys
	ng/ml = µg/l	22.7	18.2	27.2	Diasorin Liaison
	ng/ml = µg/l	24.7	19.8	29.6	Beckman Access
	ng/ml = µg/l	29.4	23.5	35.3	Tosoh Series
	ng/ml = µg/l	24.9	19.9	29.9	Vitros ECI
	ng/ml = µg/l	22.2	17.8	26.6	Roche Cobas 6000/8000
	ng/ml = µg/l	22.3	17.8	26.8	Roche Cobas E411
	ng/ml = µg/l	30.1	24.1	36.1	Fujirebio Lumipulse G Series
	ng/ml = µg/l	24.6	16.7	32.5	Siemens Centaur CP
ng/ml = µg/l	20.0	16.0	24.0	Mindray CL-2000i	
ng/ml = µg/l	24.5	19.6	29.4	Diasorin Liaison XL	
Cortisol	nmol/l	477	358	596	Abbott Architect
	µg/dl	17.2	12.9	21.5	
	nmol/l	468	351	585	BioMerieux Vidas
	µg/dl	16.8	12.6	21.0	
	nmol/l	601	415	787	Siemens Centaur XP/XPT/Classic
	µg/dl	21.6	14.9	28.3	
	nmol/l	486	365	608	CIS RIA
	µg/dl	17.5	13.1	21.9	
	nmol/l	549	412	686	Siemens Immulite 2000/2500
	µg/dl	19.8	14.8	24.8	
	nmol/l	573	430	716	Siemens Immulite 1000
	µg/dl	20.6	15.5	25.7	
	nmol/l	503	377	629	Beckman DxI800
	µg/dl	18.1	13.6	22.6	
nmol/l	556	417	695	Roche Elecsys	
µg/dl	20.0	15.0	25.0		
nmol/l	561	421	701	Beckman Access	
µg/dl	20.2	15.2	25.2		
nmol/l	604	453	755	Tosoh Series	
µg/dl	21.7	16.3	27.1		

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Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	508	381	635	Vitros ECI
	µg/dl	18.3	13.7	22.9	
	nmol/l	552	414	690	Roche Cobas 6000/8000
	µg/dl	19.9	14.9	24.9	
	nmol/l	583	437	729	Roche Cobas E411
	µg/dl	21.0	15.7	26.3	
	nmol/l	658	454	862	Siemens Centaur CP
	µg/dl	23.7	16.4	31.0	
DHEA-S	nmol/l	582	437	728	Roche Cobas 4000/e411 Gen II
	µg/dl	21.0	15.7	26.3	
	nmol/l	549	412	686	Roche Cobas 6000/8000 Gen II
	µg/dl	19.8	14.8	24.8	
	nmol/l	583	437	729	Diasorin Liaison XL
	µg/dl	21.0	15.7	26.3	
	µmol/l	12.5	10.0	15.0	Abbott Architect
	µmol/l	10.7	8.56	12.8	Siemens Immulite 2000/2500
Digoxin	µmol/l	9.89	7.91	11.9	Siemens Immulite 1000
	µmol/l	10.4	8.32	12.5	Beckman Dxl800
	µmol/l	15.6	12.5	18.7	Roche Elecsys
	µmol/l	10.6	8.48	12.7	Beckman Access
	µmol/l	9.07	7.26	10.9	Diasorin Liaison
	µmol/l	10.9	7.09	14.7	Siemens Centaur XP/XPT/Classic
	µmol/l	15.1	12.1	18.1	Roche Cobas E411
	µmol/l	15.2	12.2	18.2	Roche Cobas 6000/8000
	µmol/l	10.5	8.40	12.6	Diasorin Liaison XL
	Digoxin	nmol/l	2.92	2.34	3.50
ng/ml		2.28	1.83	2.73	
nmol/l		2.41	1.93	2.89	Abbott Architect
ng/ml		1.88	1.51	2.25	
nmol/l		2.70	2.16	3.24	BioMerieux Vidas
ng/ml		2.11	1.69	2.53	
nmol/l		3.21	2.47	3.95	Siemens Centaur XP/XPT/Classic
ng/ml		2.51	1.93	3.09	
nmol/l		2.87	2.30	3.44	Siemens Dimension
ng/ml		2.24	1.80	2.68	
nmol/l		2.88	2.30	3.46	Siemens Immulite 2000/2500
ng/ml		2.25	1.80	2.70	
nmol/l		3.44	2.75	4.13	Siemens Immulite 1000
ng/ml		2.69	2.15	3.23	
nmol/l		2.92	2.34	3.50	Beckman Dxl800
ng/ml		2.28	1.83	2.73	
Digoxin	nmol/l	2.99	2.39	3.59	Roche Integra
	ng/ml	2.34	1.87	2.81	
	nmol/l	2.82	2.26	3.38	Vitros
	ng/ml	2.20	1.77	2.63	

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.91	2.33	3.49	Roche Cobas 6000/8000
	ng/ml	2.27	1.82	2.72	
	nmol/l	3.05	2.44	3.66	Beckman AU400/600/640/2700/5400
	ng/ml	2.38	1.91	2.85	
	nmol/l	3.07	2.46	3.68	Roche Cobas 4000/E411
	ng/ml	2.40	1.92	2.88	
Ethosuximide	nmol/l	3.07	2.46	3.68	Gravimetric
	ng/ml	2.40	1.92	2.87	
Ethosuximide	µmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	105	84.0	126	Abbott Architect
	ng/ml = µg/l	75.9	60.7	91.1	BioMerieux Vidas
	ng/ml = µg/l	94.2	75.4	113	Roche Tinaquant
	ng/ml = µg/l	88.2	66.2	110	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	95.4	76.3	114	Siemens Dimension
	ng/ml = µg/l	88.2	70.6	106	Siemens Immulite 2000/2500
	ng/ml = µg/l	78.5	62.8	94.2	Siemens Immulite 1000
	ng/ml = µg/l	69.5	55.6	83.4	Beckman Dxl800
	ng/ml = µg/l	105	84.0	126	Roche Elecsys
	ng/ml = µg/l	89.6	71.7	108	Diasorin Liaison
	ng/ml = µg/l	104	83.2	125	Roche Modular E170
	ng/ml = µg/l	71.9	57.5	86.3	Beckman Access
	ng/ml = µg/l	67.9	54.3	81.5	Tosoh Series
	ng/ml = µg/l	64.5	51.6	77.4	Vitros ECi
	ng/ml = µg/l	84.2	67.4	101	Immunotech IRMA
	ng/ml = µg/l	106	84.8	127	Roche Cobas E411
	ng/ml = µg/l	85.2	68.2	102	Beckman AU400/600/640/2700/5400
	Folate	ng/ml = µg/l	58.4	46.7	70.1
ng/ml = µg/l		81.8	61.4	102	Siemens Centaur CP
ng/ml = µg/l		102	81.6	122	Diasorin Liaison XL
nmol/l		12.3	9.35	15.3	Abbott Architect
ng/ml		5.42	4.12	6.72	
nmol/l		25.7	16.7	34.7	Siemens Centaur XP/XPT/Classic (enhanced kit)
ng/ml		11.3	7.35	15.3	
nmol/l		10.3	7.83	12.8	Siemens Immulite 2000
ng/ml		4.54	3.45	5.63	
nmol/l		14.2	10.8	17.6	Beckman Dxl800
ng/ml		6.26	4.76	7.76	
nmol/l		14.3	10.9	17.7	Beckman Access
ng/ml		6.31	4.81	7.81	
nmol/l		19.9	15.1	24.7	Tosoh Series
ng/ml		8.78	6.66	10.9	
nmol/l		9.45	7.18	11.7	Vitros ECi
ng/ml		4.17	3.17	5.17	
nmol/l		11.6	8.82	14.4	MP Biomedicals RIA
ng/ml	5.12	3.89	6.35		



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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	8.77	6.67	10.9	Siemens Dimension
	ng/ml	3.87	2.94	4.80	
Free T3	pmol/l	11.2	8.40	14.0	Abbott Architect
	ng/dl	0.728	0.546	0.910	
	pg/ml	7.29	5.47	9.11	
	pmol/l	12.3	9.23	15.4	BioMerieux Vidas
	ng/dl	0.800	0.600	1.00	
	pg/ml	8.01	6.01	10.0	
	pmol/l	12.8	7.68	17.9	Siemens Centaur XP/XPT/Classic
	ng/dl	0.832	0.499	1.17	
	pg/ml	8.33	5.00	11.7	
	pmol/l	9.80	7.35	12.3	Siemens Immulite 2000/2500
	ng/dl	0.637	0.478	0.796	
	pg/ml	6.38	4.78	7.98	
	pmol/l	9.36	7.02	11.7	Siemens Immulite 1000
	ng/dl	0.608	0.456	0.760	
	pg/ml	6.09	4.57	7.61	
	pmol/l	9.26	6.95	11.6	Beckman Dxl800
	ng/dl	0.602	0.452	0.752	
	pg/ml	6.03	4.52	7.54	
	pmol/l	14.5	10.9	18.1	Roche Elecsys
	ng/dl	0.943	0.709	1.18	
	pg/ml	9.44	7.10	11.8	
	pmol/l	16.2	12.2	20.3	Diasorin Liaison
	ng/dl	1.05	0.793	1.31	
	pg/ml	10.5	7.94	13.1	
pmol/l	10.3	7.73	12.9	Beckman Access	
ng/dl	0.670	0.502	0.838		
pg/ml	6.71	5.03	8.39		
pmol/l	15.7	11.8	19.6	Tosoh Series	
ng/dl	1.02	0.767	1.27		
pg/ml	10.2	7.68	12.7		
pmol/l	29.9	22.4	37.4	Vitros ECi	
ng/dl	1.94	1.46	2.42		
pg/ml	19.5	14.6	24.4		
pmol/l	14.4	10.8	18.0	Roche Cobas E411	
ng/dl	0.936	0.702	1.17		
pg/ml	9.37	7.03	11.7		
pmol/l	14.7	11.0	18.4	Roche Cobas 6000/8000	
ng/dl	0.956	0.715	1.20		
pg/ml	9.57	7.16	12.0		
pmol/l	12.4	7.44	17.4	Siemens Centaur CP	
ng/dl	0.806	0.484	1.13		
pg/ml	8.07	4.84	11.3		
pmol/l	12.1	9.08	15.1	Mindray CL-2000i	
ng/dl	0.787	0.590	0.984		
pg/ml	7.88	5.91	9.85		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	17.4	13.1	21.8	Diasorin Liaison XL
	ng/dl	1.13	0.852	1.41	
	pg/ml	11.3	8.53	14.1	
Free T4	pmol/l	29.1	21.8	36.4	Abbott Architect
	ng/dl	2.27	1.70	2.84	
	pg/ml	22.7	17.0	28.4	
	pmol/l	29.6	22.2	37.0	Siemens Centaur XP/XPT/Classic
	ng/dl	2.31	1.73	2.89	
	pg/ml	23.1	17.3	28.9	
	pmol/l	43.3	32.5	54.1	CIS RIA Coated tube
	ng/dl	3.38	2.54	4.22	
	pg/ml	33.8	25.4	42.2	
	pmol/l	41.1	30.8	51.4	Siemens Immulite 2000/2500
	ng/dl	3.21	2.40	4.02	
	pg/ml	32.1	24.0	40.2	
	pmol/l	42.9	32.2	53.6	Siemens Immulite 1000
	ng/dl	3.35	2.51	4.19	
	pg/ml	33.5	25.1	41.9	
	pmol/l	32.7	24.5	40.9	Beckman Dxl800
	ng/dl	2.55	1.91	3.19	
	pg/ml	25.5	19.1	31.9	
	pmol/l	39.2	29.4	49.0	Roche Elecsys
	ng/dl	3.06	2.29	3.83	
	pg/ml	30.6	22.9	38.3	
	pmol/l	49.1	36.8	61.4	Diasorin Liaison
	ng/dl	3.83	2.87	4.79	
	pg/ml	38.3	28.7	47.9	
pmol/l	32.5	24.4	40.6	Beckman Access	
ng/dl	2.54	1.90	3.18		
pg/ml	25.4	19.0	31.8		
pmol/l	39.0	29.3	48.8	Tosoh Series	
ng/dl	3.04	2.29	3.79		
pg/ml	30.4	22.9	37.9		
pmol/l	75.8	56.9	94.8	Vitros ECi	
ng/dl	5.91	4.44	7.38		
pg/ml	59.1	44.4	73.8		
pmol/l	38.9	29.2	48.6	Roche Cobas 6000/8000	
ng/dl	3.03	2.28	3.78		
pg/ml	30.3	22.8	37.8		
pmol/l	32.2	24.2	40.3	Immunotech IRMA	
ng/dl	2.51	1.89	3.13		
pg/ml	25.1	18.9	31.3		
pmol/l	39.1	29.3	48.9	Roche Cobas E411	
ng/dl	3.05	2.29	3.81		
pg/ml	30.5	22.9	38.1		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods	
			low	high		
Free T4	pmol/l	31.3	23.5	39.1	ELISA	
	ng/dl	2.44	1.83	3.05		
	pg/ml	24.4	18.3	30.5		
	pmol/l	44.0	33.0	55.0	Biomerieux Vidas FT4N Kit	
		ng/dl	3.43	2.57		4.29
		pg/ml	34.3	25.7		42.9
	pmol/l	32.0	24.0	40.0	Siemens Centaur CP	
		ng/dl	2.50	1.88		3.12
		pg/ml	25.0	18.8		31.2
	pmol/l	32.3	24.2	40.4	Mindray CL-2000i	
		ng/dl	2.52	1.89		3.15
		pg/ml	25.2	18.9		31.5
pmol/l	53.7	40.3	67.1	Diasorin Liaison XL		
	ng/dl	4.19	3.14		5.24	
	pg/ml	41.9	31.4		52.4	
FSH	mU/ml	25.5	20.4	30.6	Abbott Architect	
	mU/ml	32.9	26.3	39.5	BioMerieux Vidas	
	mU/ml	34.7	26.0	43.4	Siemens Centaur XP/XPT/Classic	
	mU/ml	28.7	23.0	34.4	Siemens Immulite 2000/2500	
	mU/ml	29.0	23.2	34.8	Siemens Immulite 1000	
	mU/ml	30.5	24.4	36.6	Beckman Dxl800	
	mU/ml	29.0	23.2	34.8	Roche/BM Elecsys	
	mU/ml	35.1	28.1	42.1	Diasorin Liaison	
	mU/ml	30.4	24.3	36.5	Beckman Access	
	mU/ml	29.8	23.8	35.8	Tosoh Series	
	mU/ml	22.7	18.2	27.2	Vitros ECi	
	mU/ml	29.2	23.4	35.0	Roche Cobas E411	
	mU/ml	28.0	22.4	33.6	Roche Cobas 6000/8000	
	mU/ml	24.5	19.6	29.4	Fujirebio Lumipulse G Series	
	mU/ml	29.9	22.4	37.4	Siemens Centaur CP	
mU/ml	43.8	35.0	52.6	Diasorin Liaison XL		
Gentamicin	µmol/l	7.72	5.48	9.96	Siemens Centaur XP/XPT/Classic	
	µg/ml	3.69	2.62	4.76		
	µmol/l	7.89	6.31	9.47	Siemens Dimension Vista	
		µg/ml	3.77	3.02		4.52
	µmol/l	5.91	4.73	7.09	Roche Cobas 6000/8000	
		µg/ml	2.82	2.26		3.38
µmol/l	8.16	6.53	9.79	Gravimetric		
	µg/ml	3.90	3.12		4.68	
Growth Hormone (GH)	µU/ml	18.8	15.0	22.6	Siemens Immulite 2000/2500	
	ng/ml	6.26	5.00	7.52		
	µU/ml	16.5	13.2	19.8	Siemens Immulite 1000	
		ng/ml	5.49	4.40		6.58
	µU/ml	14.8	11.8	17.8	Beckman Dxl800	
		ng/ml	4.93	3.93		5.93
µU/ml	15.8	12.6	19.0	Beckman Access		
ng/ml	5.26	4.20	6.32			

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods	
			low	high		
Growth Hormone (GH)	µU/ml	17.1	13.7	20.5	Tosoh Series	
	ng/ml	5.69	4.56	6.82		
	µU/ml	16.6	13.3	19.9	Diasorin Liaison	
	ng/ml	5.53	4.43	6.63		
	µU/ml	16.6	13.3	19.9	Roche Cobas E411	
	ng/ml	5.53	4.43	6.63		
	µU/ml	16.9	13.5	20.3	Roche Cobas 6000/8000	
	ng/ml	5.63	4.50	6.76		
	µU/ml	17.0	13.6	20.4	IDS iSYS	
	ng/ml	5.66	4.53	6.79		
	µU/ml	16.5	13.2	19.8	Diasorin Liaison XL	
	ng/ml	5.49	4.40	6.58		
	Immunoglobulin E	KIU/I = IU/ml	93.9	75.1	113	Abbott Architect
		KIU/I = IU/ml	89.0	71.2	107	BioMerieux Vidas
KIU/I = IU/ml		108	64.8	151	Siemens Centaur XP/XPT/Classic	
KIU/I = IU/ml		109	87.2	131	Siemens Immulite 2000/2500	
KIU/I = IU/ml		115	92.0	138	Siemens Immulite 1000	
KIU/I = IU/ml		116	92.8	139	Roche Elecsys	
KIU/I = IU/ml		112	89.6	134	Pharmacia Unicap	
KIU/I = IU/ml		104	83.2	125	Tosoh Series	
KIU/I = IU/ml		121	96.8	145	Roche Cobas E411	
KIU/I = IU/ml		119	95.2	143	Roche Cobas 6000/8000	
KIU/I = IU/ml		102	81.6	122	Fujirebio Lumipulse G Series	
KIU/I = IU/ml		96.6	58.0	135	Siemens Centaur CP	
Insulin	mU/l	5.31	3.98	6.64	Siemens Immulite 2000	
	µU/ml	5.31	3.98	6.64		
	mU/l	19.1	14.3	23.9	Siemens Centaur XP/XPT/Classic	
	µU/ml	19.1	14.3	23.9		
	mU/l	5.40	4.05	6.75	Siemens Immulite 1000	
	µU/ml	5.40	4.05	6.75		
	mU/l	20.6	15.5	25.8	Roche Elecsys	
	µU/ml	20.6	15.5	25.7		
	mU/l	15.0	11.3	18.8	Beckman Access	
	µU/ml	15.0	11.3	18.7		
	mU/l	16.8	12.6	21.0	Abbott Architect	
	µU/ml	16.8	12.6	21.0		
	mU/l	19.4	14.6	24.3	Tosoh Series	
	µU/ml	19.4	14.6	24.2		
	mU/l	20.2	15.2	25.3	Roche Cobas E411	
	µU/ml	20.2	15.2	25.2		
	mU/l	14.7	11.0	18.4	Beckman Dxl 600/800	
	µU/ml	14.7	11.0	18.4		
	mU/l	25.9	19.4	32.4	Diasorin Liaison	
	µU/ml	25.9	19.4	32.4		
	mU/l	20.3	15.2	25.4	Roche Cobas 6000/8000	
	µU/ml	20.3	15.2	25.4		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	22.0	16.5	27.5	Fujirebio Lumipulse G Series
	µU/ml	22.0	16.5	27.5	
	mU/l	19.2	14.4	24.0	Siemens Centaur CP
	µU/ml	19.2	14.4	24.0	
	mU/l	26.1	19.6	32.6	Diasorin Liaison XL
	µU/ml	26.1	19.6	32.6	
Luteinising Hormone (LH)	mU/ml	29.0	23.2	34.8	Abbott Architect
	mU/ml	33.4	26.7	40.1	BioMerieux Vidas
	mU/ml	35.2	27.1	43.3	Siemens Centaur XP/XPT/Classic
	mU/ml	50.9	40.7	61.1	Siemens Immulite 2000
	mU/ml	53.1	42.5	63.7	Siemens Immulite 1000
	mU/ml	27.3	21.8	32.8	Beckman Dxl800
	mU/ml	37.5	30.0	45.0	Roche Elecsys
	mU/ml	44.6	35.7	53.5	Diasorin Liaison
	mU/ml	28.3	22.6	34.0	Beckman Access
	mU/ml	32.2	25.8	38.6	Tosoh Series
	mU/ml	47.8	38.2	57.4	Vitros ECi
	mU/ml	38.0	30.4	45.6	Roche Cobas E411
	mU/ml	38.2	30.6	45.8	Roche Cobas 6000/8000
	mU/ml	32.6	26.1	39.1	Fujirebio Lumipulse G Series
		mU/ml	35.9	27.6	44.2
	mU/ml	41.3	33.0	49.6	Mindray CL-2000i
	mU/ml	46.4	37.1	55.7	Diasorin Liaison XL
Oestradiol	pmol/l	703	562	844	Abbott Architect
	pg/ml	191	153	229	
	pmol/l	1223	978	1468	BioMerieux Vidas
	pg/ml	333	266	400	
	pmol/l	960	576	1344	Siemens Centaur XP/XPT/Classic
	pg/ml	261	157	365	
	pmol/l	1093	874	1312	Siemens Immulite 2000/2500
	pg/ml	297	238	356	
	pmol/l	1045	836	1254	Siemens Immulite 1000
	pg/ml	284	227	341	
	pmol/l	960	768	1152	Beckman Dxl800
	pg/ml	261	209	313	
	pmol/l	738	590	886	Roche Elecsys (Estradiol II)
	pg/ml	201	160	242	
	pmol/l	1036	829	1243	Beckman Access
pg/ml	282	225	339		
pmol/l	798	638	958	Tosoh (E2)	
pg/ml	217	174	260		
pmol/l	1022	818	1226	Vitros ECi	
pg/ml	278	222	334		
pmol/l	753	602	904	Roche Cobas 6000/8000 (Estradiol II)	
pg/ml	205	164	246		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	748	598	898	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	203	163	243	
	pmol/l	964	578	1350	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	262	157	367	
	pmol/l	736	589	883	Tosoh (iE2-hsE2)
	pg/ml	200	160	240	
	pmol/l	1070	642	1498	Siemens Centaur CP
	pg/ml	291	175	407	
	pmol/l	964	578	1350	Siemens Centaur CP Enhanced (eE2)
	pg/ml	262	157	367	
	pmol/l	939	751	1127	Fujirebio Lumipulse G Series
	pg/ml	255	204	306	
	pmol/l	755	604	906	Roche Cobas 6000/8000 (Estradiol III)
	pg/ml	205	164	246	
	pmol/l	728	582	874	Roche Elecsys (Estradiol III)
	pg/ml	198	158	238	
pmol/l	747	598	896	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	203	163	243		
pmol/l	627	502	752	Diasorin Liaison XL	
pg/ml	171	137	205		
Paracetamol	mmol/l	0.274	0.219	0.329	Roche Integra
	mg/l	41.5	33.1	49.9	
	mmol/l	0.327	0.262	0.392	Abbott Architect
	mg/l	49.5	39.6	59.4	
	mmol/l	0.323	0.258	0.388	Roche Cobas 6000/8000
	mg/l	48.9	39.0	58.8	
Phenobarbital	mmol/l	0.348	0.280	0.420	Gravimetric
	mg/l	52.7	42.4	63.5	
	µmol/l	82.1	65.7	98.5	Abbott Architect
	µg/ml	19.0	15.2	22.8	
	µmol/l	77.2	61.8	92.6	Roche Cobas 6000/8000
	µg/ml	17.9	14.3	21.5	
	µmol/l	79.9	63.9	95.9	Siemens Immulite 2000/2500
	µg/ml	18.5	14.8	22.2	
	µmol/l	77.9	62.3	93.5	Beckman AU400/600/640/2700/5400
	µg/ml	18.1	14.5	21.7	
	µmol/l	105	75.6	134	Siemens Centaur XP/XPT/Classic
	µg/ml	24.4	17.6	31.2	
	µmol/l	79.1	63.3	94.9	Roche Integra
	µg/ml	18.4	14.7	22.1	
	µmol/l	76.3	61.0	91.6	Siemens Immulite 1000
	µg/ml	17.7	14.2	21.2	
µmol/l	77.7	62.2	93.2	Beckman DxC	
µg/ml	18.0	14.4	21.6		
µmol/l	77.6	62.1	93.1	Gravimetric	
µg/ml	18.0	14.4	21.6		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	67.3	53.8	80.8	Abbott Architect
	µg/ml	17.0	13.6	20.4	
	µmol/l	86.2	67.2	105	Siemens Centaur XP/XPT/Classic
	µg/ml	21.8	17.0	26.6	
	µmol/l	75.2	60.2	90.2	Siemens Dimension
	µg/ml	19.0	15.2	22.8	
	µmol/l	64.9	51.9	77.9	Siemens Immulite 2000/2500
	µg/ml	16.4	13.1	19.7	
	µmol/l	67.6	54.1	81.1	Siemens Immulite 1000
	µg/ml	17.1	13.7	20.5	
	µmol/l	64.3	51.4	77.2	Roche Integra
	µg/ml	16.2	13.0	19.4	
	µmol/l	72.6	58.1	87.1	Vitros
	µg/ml	18.3	14.7	21.9	
	µmol/l	67.1	53.7	80.5	Roche Cobas E411
	µg/ml	16.9	13.6	20.2	
Primidone	µmol/l	68.0	54.4	81.6	Roche Cobas 6000/8000
	µg/ml	17.2	13.7	20.7	
Progesterone	µmol/l	68.1	54.5	81.7	Beckman DxC
	µg/ml	17.2	13.8	20.6	
Primidone	µmol/l	71.3	57.0	85.6	Gravimetric
	µg/ml	18.0	14.4	21.6	
Primidone	µmol/l	22.5	18.0	27.0	Gravimetric
	µg/ml	4.91	3.93	5.89	
Progesterone	nmol/l	28.2	22.6	33.8	Abbott Architect
	ng/ml	8.83	7.07	10.6	
	nmol/l	44.9	35.9	53.9	BioMerieux Vidas
	ng/ml	14.1	11.2	17.0	
	nmol/l	25.2	17.6	32.8	Siemens Centaur XP/XPT/Classic
	ng/ml	7.89	5.52	10.3	
	nmol/l	25.6	20.5	30.7	Siemens Immulite 2000/2500
	ng/ml	8.01	6.42	9.60	
	nmol/l	31.1	24.9	37.3	Siemens Immulite 1000
	ng/ml	9.73	7.79	11.7	
	nmol/l	35.1	28.1	42.1	Beckman Dxl Prog Cal 33555
	ng/ml	11.0	8.80	13.2	
	nmol/l	35.3	28.2	42.4	Roche Elecsys (Prog. II)
	ng/ml	11.0	8.83	13.2	
	nmol/l	36.3	29.0	43.6	Beckman Access Prog Cal 33555
	ng/ml	11.4	9.08	13.7	
nmol/l	41.0	32.8	49.2	Tosoh Series	
ng/ml	12.8	10.3	15.3		
nmol/l	36.0	28.8	43.2	Vitros ECI	
ng/ml	11.3	9.01	13.6		
nmol/l	35.5	28.4	42.6	Roche Cobas 4000/e411 (Prog. II)	
ng/ml	11.1	8.89	13.3		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	36.3	29.0	43.6	Roche Cobas 6000/8000 (Prog. II)
	ng/ml	11.4	9.08	13.7	
	nmol/l	30.9	24.7	37.1	Diasorin Liaison
	ng/ml	9.67	7.73	11.6	
	nmol/l	33.4	26.7	40.1	Beckman Dxl Prog DE Cal A80773
	ng/ml	10.5	8.36	12.6	
	nmol/l	27.0	18.9	35.1	Siemens Centaur CP
	ng/ml	8.45	5.92	11.0	
	nmol/l	37.7	30.2	45.2	Fujirebio Lumipulse G Series
	ng/ml	11.8	9.45	14.2	
	nmol/l	36.5	29.2	43.8	Roche Cobas 6000/8000 (Prog. III)
	ng/ml	11.4	9.14	13.7	
	nmol/l	35.1	28.1	42.1	Roche Elecsys (Prog. III)
	ng/ml	11.0	8.80	13.2	
Prolactin	nmol/l	35.9	28.7	43.1	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	11.2	8.98	13.4	
	nmol/l	32.1	25.7	38.5	Diasorin Liaison XL
	ng/ml	10.0	8.04	12.0	
	µU/ml	739	591	887	Abbott Architect
	µU/ml	879	703	1055	BioMerieux Vidas
	µU/ml	635	495	775	Siemens Centaur XP/XPT/Classic
	µU/ml	630	504	756	Siemens Immulite 2000/2500
	µU/ml	679	543	815	Siemens Immulite 1000
	µU/ml	605	484	726	Beckman Dxl800
	µU/ml	712	570	854	Roche Elecsys
	µU/ml	790	632	948	Diasorin Liaison
	µU/ml	623	498	748	Beckman Access
	µU/ml	691	553	829	Tosoh Series
	µU/ml	639	511	767	Vitros ECi
	µU/ml	707	566	848	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	743	594	892	Immunotech IRMA
	PSA Free	µU/ml	726	581	871
µU/ml		704	563	845	Roche Cobas 6000/8000
µU/ml		894	715	1073	Fujirebio Lumipulse G Series
µU/ml		649	506	792	Siemens Centaur CP
µU/ml		769	615	923	Mindray CL-2000i
µU/ml		833	666	1000	Diasorin Liaison XL
ng/ml = µg/l		11.3	8.48	14.1	Abbott Architect
ng/ml = µg/l		8.44	6.33	10.6	Siemens Centaur XP/XPT/Classic
ng/ml = µg/l		8.70	6.53	10.9	Siemens Immulite 2000/2500
ng/ml = µg/l		7.88	5.91	9.85	Siemens Immulite 1000
ng/ml = µg/l	10.4	7.80	13.0	Beckman DXI standardised to Hybritech	
ng/ml = µg/l	7.14	5.36	8.93	Roche Elecsys	
ng/ml = µg/l	5.96	4.47	7.45	Diasorin Liaison	
ng/ml = µg/l	10.8	8.10	13.5	Beckman Access standardised to Hybritech	
ng/ml = µg/l	6.42	4.82	8.03	Tosoh Series	



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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	7.25	5.44	9.06	Roche Cobas E411
	ng/ml = µg/l	7.24	5.43	9.05	Roche Cobas 6000/8000
	ng/ml = µg/l	8.58	6.44	10.7	Siemens Dimension Vista
	ng/ml = µg/l	9.27	6.95	11.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	4.15	3.11	5.19	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	7.73	5.80	9.66	Fujirebio Lumipulse G Series
	ng/ml = µg/l	5.92	4.44	7.40	Diasorin Liaison XL
PSA Total	ng/ml = µg/l	5.54	4.16	6.93	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	10.9	8.18	13.6	Abbott Architect
	ng/ml = µg/l	12.2	9.15	15.3	BioMerieux Vidas
	ng/ml = µg/l	12.0	9.00	15.0	bioMerieux VIDAS TPSA
	ng/ml = µg/l	12.1	9.08	15.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	5.68	4.26	7.10	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	5.72	4.29	7.15	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	6.42	4.82	8.03	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	15.9	11.9	19.9	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	13.6	10.2	17.0	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	14.7	11.0	18.4	Roche Elecsys
	ng/ml = µg/l	7.62	5.72	9.53	Diasorin Liaison
	ng/ml = µg/l	15.7	11.8	19.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	15.9	11.9	19.9	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	9.49	7.12	11.9	Tosoh Series
	ng/ml = µg/l	14.7	11.0	18.4	Vitros ECi
	ng/ml = µg/l	15.0	11.3	18.8	CIS RIA Coated tube
	ng/ml = µg/l	14.8	11.1	18.5	Roche Cobas E411
	ng/ml = µg/l	14.8	11.1	18.5	Roche Cobas 6000/8000
	ng/ml = µg/l	10.3	7.73	12.9	Fujirebio Lumipulse G Series
ng/ml = µg/l	14.7	11.0	18.4	Ortho Vitros 3600/5600/ECi PSA II	
ng/ml = µg/l	12.0	9.00	15.0	Siemens Centaur CP	
ng/ml = µg/l	7.36	5.52	9.20	Diasorin Liaison XL	
Salicylic Acid	mmol/l	1.18	0.944	1.42	Abbott Architect
	mg/dl	16.3	13.0	19.6	
	mmol/l	1.22	0.980	1.46	Gravimetric
	mg/dl	16.9	13.5	20.2	
SHBG	nmol/l	43.2	34.6	51.8	Siemens Immulite 2000/2500
	nmol/l	47.9	38.3	57.5	Roche Elecsys
	nmol/l	42.8	34.2	51.4	Abbott Architect
	nmol/l	51.0	40.8	61.2	Roche Cobas E411
	nmol/l	48.8	39.0	58.6	Roche Cobas 6000/8000
	nmol/l	42.8	34.2	51.4	Beckman Dxl800
T Uptake	%U	34.8	28.5	41.1	Siemens Immulite 2000
Testosterone	nmol/l	12.8	10.2	15.4	Abbott Architect
	ng/ml	3.69	2.94	4.44	
	ng/dl	369	294	444	
	nmol/l	9.70	7.76	11.6	BioMerieux Vidas
	ng/ml	2.79	2.23	3.35	
	ng/dl	279	223	335	

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	13.0	9.10	16.9	Siemens Centaur XP/XPT/Classic
	ng/ml	3.74	2.62	4.86	
	ng/dl	374	262	486	
	nmol/l	15.4	12.3	18.5	Siemens Immulite 2000/2500
	ng/ml	4.44	3.54	5.34	
	ng/dl	444	354	534	
	nmol/l	16.5	13.2	19.8	Siemens Immulite 1000
	ng/ml	4.75	3.80	5.70	
	ng/dl	475	380	570	
	nmol/l	11.3	9.04	13.6	Beckman Dxl800
	ng/ml	3.25	2.60	3.90	
	ng/dl	325	260	390	
	nmol/l	12.6	10.1	15.1	Beckman Access
	ng/ml	3.63	2.91	4.35	
	ng/dl	363	291	435	
	nmol/l	16.5	13.2	19.8	Tosoh Series
	ng/ml	4.75	3.80	5.70	
	ng/dl	475	380	570	
	nmol/l	16.5	13.2	19.8	Vitros ECi
	ng/ml	4.75	3.80	5.70	
	ng/dl	475	380	570	
	nmol/l	13.9	11.1	16.7	Roche Cobas 6000 Test 2
	ng/ml	4.00	3.20	4.80	
	ng/dl	400	320	480	
nmol/l	13.6	10.9	16.3	Roche Elecsys Test II	
ng/ml	3.92	3.14	4.70		
ng/dl	392	314	470		
nmol/l	13.6	10.9	16.3	Roche Cobas 4000/e411 Test II	
ng/ml	3.92	3.14	4.70		
ng/dl	392	314	470		
nmol/l	12.8	10.2	15.4	Abbott Architect 2nd Generation	
ng/ml	3.69	2.94	4.44		
ng/dl	369	294	444		
nmol/l	11.7	8.19	15.2	Siemens Centaur CP	
ng/ml	3.37	2.36	4.38		
ng/dl	337	236	438		
nmol/l	9.77	7.82	11.7	BioMerieux Vidas Testosterone II	
ng/ml	2.81	2.25	3.37		
ng/dl	281	225	337		
nmol/l	17.6	14.1	21.1	Mindray CL-2000i	
ng/ml	5.07	4.06	6.08		
ng/dl	507	406	608		
nmol/l	13.2	10.6	15.8	Siemens Centaur TST II	
ng/ml	3.80	3.05	4.55		
ng/dl	380	305	455		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	5.82	4.66	6.98	Diasorin Liaison XL
	ng/ml	1.68	1.34	2.02	
	ng/dl	168	134	202	
Theophylline	µmol/l	85.8	68.6	103	Siemens Centaur XP/XPT/Classic
	µg/ml	15.5	12.4	18.6	
	µmol/l	84.8	67.8	102	Roche Integra
	µg/ml	15.3	12.2	18.4	
	µmol/l	74.9	59.9	89.9	Abbott Architect
	µg/ml	13.5	10.8	16.2	
	µmol/l	78.8	63.0	94.6	Roche Cobas 6000/8000
	µg/ml	14.2	11.4	17.0	
	µmol/l	80.5	64.4	96.6	Beckman DxC
	µg/ml	14.5	11.6	17.4	
	µmol/l	76.9	61.5	92.3	Beckman AU400/600/640/2700/5400
	µg/ml	13.9	11.1	16.7	
Thyroglobulin	µmol/l	83.8	67.0	101	Gravimetric
	µg/ml	15.1	12.1	18.2	
	ng/ml	15.5	11.6	19.4	Siemens Immulite 1000
	ng/ml	16.1	12.1	20.1	Siemens Immulite 2000
	ng/ml	34.0	25.5	42.5	Roche Elecsys
	ng/ml	32.9	24.7	41.1	Beckman Dxl800
	ng/ml	36.3	27.2	45.4	Roche Cobas E411
	ng/ml	36.1	27.1	45.1	Roche Cobas 6000/8000
	ng/ml	32.6	24.5	40.8	Beckman Access
	ng/ml	44.7	33.5	55.9	Abbott Architect 2000i
	ng/ml	33.7	25.3	42.1	Tosoh Series
	ng/ml	36.2	27.2	45.3	Roche Cobas 6000 TGII
ng/ml	37.3	28.0	46.6	Roche Elecsys TGII	
ng/ml	35.8	26.9	44.8	Roche Cobas 4000/E411 TGII	
ng/ml	13.8	10.4	17.3	Diasorin Liaison XL	
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.88	1.50	2.26	Abbott Architect
	µU/ml = mIU/l	2.23	1.78	2.68	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.15	1.72	2.58	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.31	1.57	3.05	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	2.89	2.31	3.47	CIS IRMA
	µU/ml = mIU/l	2.22	1.51	2.93	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.27	1.82	2.72	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.16	1.73	2.59	Siemens Immulite 1000
	µU/ml = mIU/l	2.04	1.63	2.45	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.05	1.64	2.46	Beckman Dxl800
	µU/ml = mIU/l	2.39	1.91	2.87	Roche Elecsys
	µU/ml = mIU/l	2.69	2.15	3.23	Diasorin Liaison
	µU/ml = mIU/l	2.01	1.61	2.41	Beckman Access Fast TSH
	µU/ml = mIU/l	2.09	1.67	2.51	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.35	1.88	2.82	Tosoh Series
µU/ml = mIU/l	2.55	2.04	3.06	Vitros ECi	

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.36	1.89	2.83	Roche Cobas E411
	µU/ml = mIU/l	2.40	1.92	2.88	Roche Cobas 6000/8000
	µU/ml = mIU/l	2.03	1.62	2.44	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.07	1.66	2.48	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.21	1.50	2.92	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.28	1.55	3.01	Siemens Centaur CP
	µU/ml = mIU/l	2.14	1.46	2.82	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	2.38	1.90	2.86	Mindray CL-2000i
	µU/ml = mIU/l	2.03	1.62	2.44	Beckman Dxl 600/800 Access (3rd IS)
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	9.21	7.37	11.1	Abbott Architect
	IU/ml	0.009	0.007	0.011	
	mU/ml=IU/l	41.7	33.4	50.0	BioMerieux Vidas
	IU/ml	0.042	0.033	0.051	
	mU/ml=IU/l	10.6	6.36	14.8	Siemens Centaur XP/XPT/Classic
	IU/ml	0.011	0.007	0.015	
	mU/ml=IU/l	55.6	44.5	66.7	Siemens Dimension
	IU/ml	0.056	0.045	0.067	
	mU/ml=IU/l	80.3	64.2	96.4	Siemens Immulite 2000
	IU/ml	0.080	0.064	0.096	
	mU/ml=IU/l	72.0	57.6	86.4	Siemens Immulite 1000
	IU/ml	0.072	0.058	0.086	
	mU/ml=IU/l	11.0	8.80	13.2	Beckman Dxl800
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	8.70	6.96	10.4	Diasorin Liaison
	IU/ml	0.009	0.007	0.011	
	mU/ml=IU/l	21.4	17.1	25.7	Roche Cobas Core EIA
	IU/ml	0.021	0.017	0.025	
	mU/ml=IU/l	10.7	8.56	12.8	Beckman Access
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	47.6	38.1	57.1	Tosoh Series
	IU/ml	0.048	0.038	0.058	
	mU/ml=IU/l	51.9	41.5	62.3	Vitros ECI
	IU/ml	0.052	0.042	0.062	
mU/ml=IU/l	18.2	14.6	21.8	Roche STAT (Intact)	
IU/ml	0.018	0.015	0.021		
mU/ml=IU/l	22.4	17.9	26.9	Roche hCG+Beta	
IU/ml	0.022	0.018	0.026		
mU/ml=IU/l	8.27	6.62	9.92	Fujirebio Lumipulse G Series	
IU/ml	0.008	0.007	0.009		
mU/ml=IU/l	10.7	8.56	12.8	Beckman Access Total BhCG (5th IS)	
IU/ml	0.011	0.009	0.013		
mU/ml=IU/l	11.0	8.80	13.2	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.011	0.009	0.013		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	10.9	6.54	15.3	Siemens Centaur CP
	IU/ml	0.011	0.007	0.015	
Total T3	nmol/l	3.09	2.32	3.86	Abbott Architect
	ng/ml	2.01	1.51	2.51	
	ng/dl	201	151	251	
	nmol/l	3.59	2.69	4.49	BioMerieux Vidas
	ng/ml	2.34	1.75	2.93	
	ng/dl	234	175	293	
	nmol/l	3.94	2.96	4.92	Siemens Centaur XP/XPT/Classic
	ng/ml	2.56	1.92	3.20	
	ng/dl	256	192	320	
	nmol/l	3.38	2.54	4.23	Siemens Immulite 2000/2500
	ng/ml	2.20	1.65	2.75	
	ng/dl	220	165	275	
	nmol/l	3.34	2.51	4.18	Siemens Immulite 1000
	ng/ml	2.17	1.63	2.71	
	ng/dl	217	163	271	
	nmol/l	3.27	2.45	4.09	Beckman Dxl800
	ng/ml	2.13	1.59	2.67	
	ng/dl	213	159	267	
	nmol/l	3.80	2.85	4.75	Roche Elecsys
	ng/ml	2.47	1.86	3.08	
	ng/dl	247	186	308	
	nmol/l	3.08	2.31	3.85	Diasorin Liaison
	ng/ml	2.01	1.50	2.52	
	ng/dl	201	150	252	
	nmol/l	3.34	2.51	4.18	Beckman Access
	ng/ml	2.17	1.63	2.71	
	ng/dl	217	163	271	
	nmol/l	3.56	2.67	4.45	Tosoh Series
ng/ml	2.32	1.74	2.90		
ng/dl	232	174	290		
nmol/l	3.99	2.99	4.99	Vitros ECI	
ng/ml	2.60	1.95	3.25		
ng/dl	260	195	325		
nmol/l	2.62	1.97	3.28	CIS RIA Coated tube	
ng/ml	1.71	1.28	2.14		
ng/dl	171	128	214		
nmol/l	3.94	2.96	4.93	Roche Cobas E411	
ng/ml	2.56	1.93	3.19		
ng/dl	256	193	319		
nmol/l	3.79	2.84	4.74	Roche Cobas 6000/8000	
ng/ml	2.47	1.85	3.09		
ng/dl	247	185	309		
nmol/l	3.55	2.66	4.44	ELISA	
ng/ml	2.31	1.73	2.89		
ng/dl	231	173	289		

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

Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	4.13	3.10	5.16	Siemens Centaur CP
	ng/ml	2.69	2.02	3.36	
	ng/dl	269	202	336	
	nmol/l	2.70	2.03	3.38	Diasorin Liaison XL
	ng/ml	1.76	1.32	2.20	
	ng/dl	176	132	220	
Total T4	nmol/l	138	104	173	Abbott Architect
	µg/dl	10.8	8.11	13.5	
	ng/ml	108	81.1	135	
	nmol/l	153	115	191	BioMerieux Vidas
	µg/dl	11.9	8.97	14.8	
	ng/ml	119	89.7	148	
	nmol/l	143	93.0	193	Siemens Centaur XP/XPT/Classic
	µg/dl	11.2	7.28	15.1	
	ng/ml	112	72.8	151	
	nmol/l	142	107	178	Siemens Immulite 2000/2500
	µg/dl	11.1	8.35	13.9	
	ng/ml	111	83.5	139	
	nmol/l	151	113	189	Siemens Immulite 1000
	µg/dl	11.8	8.81	14.8	
	ng/ml	118	88.1	148	
	nmol/l	141	106	176	Beckman Dxl800
	µg/dl	11.0	8.27	13.7	
	ng/ml	110	82.7	137	
	nmol/l	135	101	169	Roche Elecsys
	µg/dl	10.5	7.88	13.1	
	ng/ml	105	78.8	131	
	nmol/l	110	82.5	138	Diasorin Liaison
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
nmol/l	144	108	180	Beckman Access	
µg/dl	11.2	8.42	14.0		
ng/ml	112	84.2	140		
nmol/l	130	97.5	163	Tosoh Series	
µg/dl	10.1	7.61	12.6		
ng/ml	101	76.1	126		
nmol/l	145	109	181	Vitros ECi	
µg/dl	11.3	8.50	14.1		
ng/ml	113	85.0	141		
nmol/l	141	106	176	CIS RIA Coated tube	
µg/dl	11.0	8.27	13.7		
ng/ml	110	82.7	137		
nmol/l	135	101	169	Roche Cobas E411	
µg/dl	10.5	7.88	13.1		
ng/ml	105	78.8	131		

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Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	134	101	168	Roche Cobas 6000/8000
	µg/dl	10.5	7.88	13.1	
	ng/ml	105	78.8	131	
	nmol/l	109	81.8	136	Immunotech IRMA
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	121	90.8	151	ELISA
	µg/dl	9.44	7.08	11.8	
	ng/ml	94.4	70.8	118	
	nmol/l	159	103	215	Siemens Centaur CP
	µg/dl	12.4	8.06	16.7	
	ng/ml	124	80.6	167	
Valproic Acid	nmol/l	116	87.0	145	Diasorin Liaison XL
	µg/dl	9.05	6.79	11.3	
	ng/ml	90.5	67.9	113	
	µmol/l	519	415	623	Abbott Architect
	µg/ml	74.9	59.9	89.9	
	µmol/l	568	454	682	Siemens Centaur XP/XPT/Classic
	µg/ml	82.0	65.6	98.4	
	µmol/l	539	431	647	Siemens Dimension
	µg/ml	77.8	62.2	93.4	
	µmol/l	541	433	649	Siemens Immulite 2000/2500
	µg/ml	78.1	62.5	93.7	
	µmol/l	563	450	676	Siemens Immulite 1000
	µg/ml	81.2	64.9	97.5	
	µmol/l	537	430	644	Roche Integra
	µg/ml	77.5	62.0	93.0	
	µmol/l	599	479	719	Vitros
	µg/ml	86.4	69.1	104	
	µmol/l	543	434	652	Roche Cobas 6000/8000
µg/ml	78.4	62.6	94.2		
µmol/l	501	401	601	Beckman DxC	
µg/ml	72.3	57.9	86.7		
µmol/l	557	446	668	Beckman AU400/600/640/2700/5400	
µg/ml	80.4	64.4	96.4		
µmol/l	564	451	677	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	81.4	65.1	97.7		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	7.55	6.04	9.06	Roche Integra
	µg/ml	11.2	8.97	13.4	
	µmol/l	5.59	4.47	6.71	Ortho Vitros Microslide Systems
	µg/ml	8.31	6.64	9.98	
	µmol/l	7.02	5.62	8.42	Abbott Architect
µg/ml	10.4	8.35	12.5		
µmol/l	5.94	4.63	7.25	Siemens Centaur XP/XPT/Classic	
µg/ml	8.83	6.89	10.8		

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Cat. No. IA3110 / IA3112 Lot No. 1917EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	6.60	5.28	7.92	Siemens Dimension
	µg/ml	9.81	7.84	11.8	
	µmol/l	6.77	5.42	8.12	Roche Cobas 6000/8000
	µg/ml	10.1	8.05	12.2	
	µmol/l	6.97	5.58	8.36	Beckman DxC
	µg/ml	10.4	8.29	12.5	
	µmol/l	6.34	5.07	7.61	Thermo Scientific QMS Vancomycin
	µg/ml	9.42	7.53	11.3	
µmol/l	7.10	5.68	8.52	Gravimetric	
µg/ml	10.5	8.44	12.7		
Vitamin B12	pmol/l	433	346	520	Abbott Architect
	pg/ml	587	469	705	
	pmol/l	493	370	616	Siemens Centaur XP/XPT/Classic
	pg/ml	668	501	835	
	pmol/l	395	316	474	Siemens Immulite 2000
	pg/ml	535	428	642	
	pmol/l	218	174	262	Siemens Immulite 1000
	pg/ml	295	236	354	
	pmol/l	375	300	450	Beckman DxI800
	pg/ml	508	407	609	
	pmol/l	480	384	576	Roche Elecsys
	pg/ml	650	520	780	
	pmol/l	401	321	481	Beckman Access
	pg/ml	543	435	651	
	pmol/l	540	432	648	Tosoh Series
	pg/ml	732	585	879	
	pmol/l	454	363	545	Vitros ECi
	pg/ml	615	492	738	
pmol/l	497	398	596	MP Biomedicals RIA	
pg/ml	673	539	807		
pmol/l	436	349	523	Siemens Dimension	
pg/ml	591	473	709		
pmol/l	504	378	630	Siemens Centaur CP	
pg/ml	683	512	854		