

## 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>	2107EC	<b>EXPIRY:</b>	2024-12-28		

### 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](mailto:Technical.Services@randox.com).

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	11.5	8.63	14.4	Immunotech RIA
	ng/ml	3.81	2.86	4.76	
	nmol/l	16.0	12.0	20.0	ELISA
	ng/ml	5.30	3.97	6.63	
	nmol/l	19.1	14.3	23.9	DRG ELISA
	ng/ml	6.32	4.73	7.91	
	nmol/l	15.6	11.7	19.5	DIAsource RIA
	ng/ml	5.16	3.87	6.45	
nmol/l	17.6	13.2	22.0	DIAsource ELISA	
ng/ml	5.83	4.37	7.29		
25-OH Vitamin D	nmol/l	69.6	52.2	87.0	Diasorin Liaison
	nmol/l	87.8	65.9	110	Siemens Centaur XP/XPT/Classic
	nmol/l	62.1	46.6	77.6	Roche Vitamin D Total
	nmol/l	62.1	46.6	77.6	Abbott Architect (3L52)
	nmol/l	80.3	60.2	100	Vitros ECI
	nmol/l	62.3	46.7	77.9	Tosoh Series
	nmol/l	75.5	56.6	94.4	BioMerieux Vidas
	nmol/l	52.6	39.5	65.8	Beckman Dxl 600/800
	nmol/l	66.0	49.5	82.5	Fujirebio Lumipulse G Series
	nmol/l	57.7	43.3	72.1	Beckman Access 25 OH Vitamin D Total
	nmol/l	57.2	42.9	71.5	LC/MS
	nmol/l	61.5	46.1	76.9	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	68.4	51.3	85.5	Diasorin Liaison XL
	nmol/l	65.4	49.1	81.8	Roche Vitamin D Total II
nmol/l	64.3	48.2	80.4	Abbott Alinity i	
nmol/l	86.3	64.7	108	Siemens Atellica IM	
nmol/l	60.5	45.4	75.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	11.0	8.25	13.8	Siemens Immulite 2000/2500
	pg/ml	50.0	37.5	62.5	
	pmol/l	19.7	14.8	24.6	CIS IRMA
	pg/ml	89.5	67.3	112	
	pmol/l	10.6	7.95	13.3	Siemens Immulite 1000
	pg/ml	48.2	36.1	60.3	
pmol/l	7.83	5.87	9.79	Roche Cobas e402/e801	
pg/ml	35.6	26.7	44.5		
Aldosterone	pmol/l	118	88.5	148	CIS RIA
	pg/ml	42.6	31.9	53.3	
	pmol/l	424	318	530	Immunotech RIA
	pg/ml	153	115	191	
	pmol/l	351	263	439	IDS iSYS
pg/ml	127	94.9	159		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Aldosterone	pmol/l	339	254	424	Diasorin Liaison
	pg/ml	122	91.6	152	
	pmol/l	353	265	441	Diasorin Liaison XL
	pg/ml	127	95.6	158	
Alphafoetoprotein	KIU/l = IU/ml	42.6	34.1	51.1	Abbott AFP-EIA
	ng/ml	51.5	41.3	61.7	
	KIU/l = IU/ml	42.8	34.2	51.4	Abbott Architect
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	44.3	35.4	53.2	BioMerieux Vidas
	ng/ml	53.6	42.8	64.4	
	KIU/l = IU/ml	48.5	38.8	58.2	Siemens Centaur XP/XPT/Classic
	ng/ml	58.7	46.9	70.5	
	KIU/l = IU/ml	44.0	35.2	52.8	Siemens Immulite 2000/2500
	ng/ml	53.2	42.6	63.8	
	KIU/l = IU/ml	46.3	37.0	55.6	Siemens Immulite 1000
	ng/ml	56.0	44.8	67.2	
	KIU/l = IU/ml	40.6	32.5	48.7	Beckman DxI800
	ng/ml	49.1	39.3	58.9	
	KIU/l = IU/ml	46.3	37.0	55.6	Roche Elecsys
	ng/ml	56.0	44.8	67.2	
	KIU/l = IU/ml	42.8	34.2	51.4	Diasorin Liaison
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	42.8	34.2	51.4	Beckman Access
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	42.0	33.6	50.4	Tosoh Series
	ng/ml	50.8	40.7	60.9	
	KIU/l = IU/ml	43.8	35.0	52.6	Vitros Eci
	ng/ml	45.6	36.5	54.7	
	KIU/l = IU/ml	47.6	38.1	57.1	Roche Cobas e601/602
	ng/ml	57.6	46.1	69.1	
	KIU/l = IU/ml	66.0	52.8	79.2	CIS IRMA
	ng/ml	79.9	63.9	95.9	
	KIU/l = IU/ml	48.6	38.9	58.3	Roche Cobas 4000/E411
	ng/ml	58.8	47.1	70.5	
	KIU/l = IU/ml	45.4	36.3	54.5	Fujirebio Lumipulse G Series
	ng/ml	54.9	43.9	65.9	
KIU/l = IU/ml	46.1	36.9	55.3	Siemens Dimension	
ng/ml	55.8	44.6	67.0		
KIU/l = IU/ml	49.6	39.7	59.5	Siemens Centaur CP	
ng/ml	60.0	48.0	72.0		
KIU/l = IU/ml	48.9	39.1	58.7	Sysmex HISCL Series	
ng/ml	59.2	47.3	71.1		
KIU/l = IU/ml	49.3	39.4	59.2	Diasorin Liaison XL	
ng/ml	59.7	47.7	71.7		
KIU/l = IU/ml	48.2	38.6	57.8	Siemens Atellica IM	
ng/ml	58.3	46.7	69.9		

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Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Alphafoetoprotein	KIU/l = IU/ml	42.7	34.2	51.2	Abbott Alinity i	
	ng/ml	51.7	41.4	62.0		
	KIU/l = IU/ml	45.7	36.6	54.8	Roche Cobas e402/e801	
	ng/ml	55.3	44.3	66.3		
	KIU/l = IU/ml	38.7	31.0	46.4	Tosoh AIA-CL Series	
	ng/ml	46.8	37.5	56.1		
	Amikacin	µmol/l	15.8	12.6	19.0	EMIT
		µg/ml	9.25	7.38	11.1	
	µmol/l	14.4	11.5	17.3	Roche Cobas 6000/8000	
	µg/ml	8.43	6.73	10.1		
	µmol/l	14.8	11.8	17.8	Abbott Architect	
	µg/ml	8.67	6.91	10.4		
	µmol/l	14.8	11.8	17.8	Thermo Scientific QMS Amikacin	
	µg/ml	8.67	6.91	10.4		
	µmol/l	15.3	12.2	18.4	Abbott Alinity	
	µg/ml	8.96	7.14	10.8		
	µmol/l	15.2	12.2	18.2	Gravimetric	
	µg/ml	8.90	7.14	10.7		
Androstenedione	nmol/l	7.46	5.60	9.33	Beckman Coulter RIA	
	ng/ml	2.14	1.61	2.67		
	nmol/l	17.5	13.1	21.9	Siemens Immulite 2000	
	ng/ml	5.02	3.76	6.28		
	nmol/l	7.56	5.67	9.45	LC/MS	
	ng/ml	2.17	1.63	2.71		
	nmol/l	9.71	7.28	12.1	Diasorin Liaison XL	
ng/ml	2.79	2.09	3.49			
Beta-2-microglobulin	µg/ml = mg/l	3.08	2.46	3.70	Abbott Architect	
	µg/ml = mg/l	3.35	2.68	4.02	BioMerieux Vidas	
	µg/ml = mg/l	3.01	2.41	3.61	Behring Nephelometer	
	µg/ml = mg/l	2.92	2.34	3.50	Siemens Immulite 2000/2500	
	µg/ml = mg/l	3.16	2.53	3.79	Tosoh Series	
	µg/ml = mg/l	3.08	2.46	3.70	Roche Cobas 6000/8000	
	µg/ml = mg/l	2.70	2.16	3.24	Diasorin Liaison XL	
	µg/ml = mg/l	3.00	2.40	3.60	Siemens Atellica CH	
µg/ml = mg/l	3.11	2.49	3.73	Abbott Alinity		
C-Peptide	nmol/l	1.960	1.470	2.450	Siemens Immulite 2000/2500	
	ng/ml	5.92	4.44	7.40		
	nmol/l	2.060	1.550	2.580	Roche Elecsys	
	ng/ml	6.22	4.68	7.76		
	nmol/l	2.040	1.530	2.550	Roche Cobas e601/602	
	ng/ml	6.16	4.62	7.70		
nmol/l	1.890	1.420	2.360	Siemens Immulite 1000		
ng/ml	5.71	4.29	7.13			
nmol/l	2.020	1.520	2.530	Diasorin Liaison		
ng/ml	6.10	4.59	7.61			

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	2.100	1.580	2.630	Roche Cobas 4000/E411
	ng/ml	6.34	4.77	7.91	
	nmol/l	1.880	1.410	2.350	Abbott Architect
	ng/ml	5.68	4.26	7.10	
	nmol/l	1.360	1.020	1.700	Siemens Centaur XP/XPT/Classic
	ng/ml	4.11	3.08	5.14	
	nmol/l	1.780	1.340	2.230	Tosoh Series
	ng/ml	5.37	4.05	6.69	
	nmol/l	2.140	1.610	2.680	Diasorin Liaison XL
	ng/ml	6.46	4.86	8.06	
	nmol/l	2.030	1.520	2.540	Roche Cobas e402/e801
	ng/ml	6.13	4.59	7.67	
	nmol/l	1.290	0.968	1.610	Siemens Atellica IM
	ng/ml	3.89	2.92	4.86	
	nmol/l	1.930	1.450	2.410	Vitros ECi
	ng/ml	5.83	4.38	7.28	
nmol/l	1.260	0.945	1.580	Beckman Access	
ng/ml	3.80	2.85	4.75		
nmol/l	1.840	1.380	2.300	Abbott Alinity i	
ng/ml	5.55	4.17	6.93		
CA 15-3	U/ml	56.6	45.3	67.9	Abbott Architect
	U/ml	38.4	30.7	46.1	BioMerieux Vidas
	U/ml	41.9	33.5	50.3	Siemens Centaur XP/XPT/Classic
	U/ml	46.4	37.1	55.7	Siemens Immulite 2000/2500
	U/ml	53.8	43.0	64.6	Siemens Immulite 1000
	U/ml	19.2	15.4	23.0	Beckman DxI800
	U/ml	41.8	33.4	50.2	Roche Elecsys
	U/ml	40.8	32.6	49.0	Diasorin Liaison
	U/ml	19.2	15.4	23.0	Beckman Access
	U/ml	49.7	39.8	59.6	Tosoh Series
	U/ml	35.9	28.7	43.1	Vitros ECi
	U/ml	41.2	33.0	49.4	Roche Cobas e601/602
	U/ml	41.3	33.0	49.6	Roche Cobas 4000/E411
	U/ml	43.3	34.6	52.0	Diasorin Liaison XL
	U/ml	44.2	35.4	53.0	Siemens Atellica IM
	U/ml	38.9	31.1	46.7	Roche Cobas e402/e801
U/ml	54.2	43.4	65.0	Abbott Alinity i	
CA 19-9	U/ml	114	91.2	137	BioMerieux Vidas
	U/ml	158	126	190	Siemens Centaur XP/XPT/Classic
	U/ml	152	122	182	Siemens Immulite 2000/2500
	U/ml	152	122	182	Beckman DxI800
	U/ml	73.0	58.4	87.6	Roche Elecsys
	U/ml	170	136	204	Beckman Access
	U/ml	59.9	47.9	71.9	Tosoh Series
	U/ml	151	121	181	Vitros ECi
	U/ml	222	178	266	Abbott Architect XR/XR2/XRL

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	73.6	58.9	88.3	Roche Cobas e601/602
	U/ml	75.7	60.6	90.8	Roche Cobas 4000/E411
	U/ml	154	123	185	Fujirebio Lumipulse G Series
	U/ml	97.9	78.3	117	Izotop RIA
	U/ml	129	103	155	Siemens Centaur CP
	U/ml	128	102	154	Diasorin Liaison XL
	U/ml	156	125	187	Siemens Atellica IM
	U/ml	74.8	59.8	89.8	Roche Cobas e402/e801
	U/ml	225	180	270	Abbott Alinity XR/XR2/XRL
CA125	U/ml	110	88.0	132	Abbott Architect
	U/ml	81.8	65.4	98.2	BioMerieux Vidas
	U/ml	92.9	74.3	111	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	96.1	76.9	115	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	80.0	64.0	96.0	Siemens Immulite 2000/2500
	U/ml	95.7	76.6	115	Siemens Immulite 1000
	U/ml	69.6	55.7	83.5	Beckman Dxl800
	U/ml	80.3	64.2	96.4	Roche Elecsys
	U/ml	71.1	56.9	85.3	Beckman Access
	U/ml	145	116	174	Tosoh Series
	U/ml	81.2	65.0	97.4	Vitros ECi
	U/ml	80.9	64.7	97.1	Roche Cobas 4000/E411
	U/ml	81.6	65.3	97.9	Roche Cobas e601/602
	U/ml	66.6	53.3	79.9	Fujirebio Lumipulse G Series
	U/ml	93.2	74.6	112	Siemens Centaur CP CA125 II kit
	U/ml	102	81.6	122	Diasorin Liaison XL
	U/ml	107	85.6	128	Siemens Atellica IM
	U/ml	78.2	62.6	93.8	Roche Cobas e402/e801
U/ml	113	90.4	136	Abbott Alinity i	
Carbamazepine	µmol/l	38.7	31.0	46.4	Abbott Architect (CMIA)
	µg/ml	9.15	7.33	11.0	
	µmol/l	42.8	34.2	51.4	Siemens Centaur XP/XPT/Classic
	µg/ml	10.1	8.08	12.1	
	µmol/l	34.5	27.6	41.4	Siemens Dimension
	µg/ml	8.16	6.52	9.80	
	µmol/l	32.5	26.0	39.0	Siemens Immulite 2000/2500
	µg/ml	7.68	6.15	9.21	
	µmol/l	38.0	30.4	45.6	Roche Integra
	µg/ml	8.98	7.19	10.8	
	µmol/l	38.3	30.6	46.0	Vitros
	µg/ml	9.05	7.23	10.9	
	µmol/l	38.7	31.0	46.4	Roche Cobas 6000/8000
	µg/ml	9.15	7.33	11.0	
	µmol/l	39.3	31.4	47.2	Beckman DxC
µg/ml	9.29	7.42	11.2		
µmol/l	39.7	31.8	47.6	Beckman AU400/600/640/2700/5400	
µg/ml	9.39	7.52	11.3		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Carbamazepine	µmol/l	31.9	25.5	38.3	Abbott Architect (PETINA)	
	µg/ml	7.54	6.03	9.05		
	µmol/l	40.3	32.2	48.4	EMIT	
	µg/ml	9.53	7.61	11.5		
	µmol/l	36.3	29.0	43.6	Siemens Atellica CH	
	µg/ml	8.58	6.86	10.3		
	µmol/l	30.1	24.1	36.1	Abbott Alinity (PETINA)	
	µg/ml	7.12	5.70	8.54		
	µmol/l	38.5	30.8	46.2	Gravimetric	
	µg/ml	9.10	7.28	10.9		
	Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	33.6	26.9	40.3	Abbott Architect
		ng/ml = µg/l	24.9	19.9	29.9	BioMerieux Vidas
ng/ml = µg/l		26.5	21.2	31.8	Siemens Centaur XP/XPT/Classic	
ng/ml = µg/l		26.2	21.0	31.4	CIS RIA Coated tube	
ng/ml = µg/l		36.4	29.1	43.7	Siemens Immulite 2000/2500	
ng/ml = µg/l		37.9	30.3	45.5	Siemens Immulite 1000	
ng/ml = µg/l		24.4	19.5	29.3	Beckman Dxl800	
ng/ml = µg/l		24.7	19.8	29.6	Roche Elecsys	
ng/ml = µg/l		22.5	18.0	27.0	Diasorin Liaison	
ng/ml = µg/l		25.8	20.6	31.0	Beckman Access	
ng/ml = µg/l		38.6	30.9	46.3	Tosoh Series	
ng/ml = µg/l		29.0	23.2	34.8	Vitros ECi	
ng/ml = µg/l		24.4	19.5	29.3	Roche Cobas e601/602	
ng/ml = µg/l		24.8	19.8	29.8	Roche Cobas 4000/E411	
ng/ml = µg/l		34.0	27.2	40.8	Fujirebio Lumipulse G Series	
ng/ml = µg/l		32.5	26.0	39.0	Boditech Med Inc i-CHROMA	
ng/ml = µg/l		26.6	21.3	31.9	Siemens Centaur CP	
ng/ml = µg/l		24.9	19.9	29.9	Diasorin Liaison XL	
ng/ml = µg/l		26.0	20.8	31.2	Siemens Atellica IM	
ng/ml = µg/l		24.4	19.5	29.3	Roche Cobas e402/e801	
ng/ml = µg/l	32.9	26.3	39.5	Abbott Alinity i		
Cortisol	nmol/l	559	419	699	Abbott Architect	
	µg/dl	20.1	15.1	25.1		
	nmol/l	579	434	724	BioMerieux Vidas	
	µg/dl	20.8	15.6	26.0		
	nmol/l	734	551	918	Siemens Centaur XP/XPT/Classic	
	µg/dl	26.4	19.8	33.0		
	nmol/l	514	386	643	CIS RIA	
	µg/dl	18.5	13.9	23.1		
	nmol/l	583	437	729	Siemens Immulite 2000/2500	
	µg/dl	21.0	15.7	26.3		
	nmol/l	669	502	836	Siemens Immulite 1000	
	µg/dl	24.1	18.1	30.1		
nmol/l	626	470	783	Beckman Dxl800		
µg/dl	22.5	16.9	28.1			
nmol/l	618	464	773	Roche Elecsys		
µg/dl	22.2	16.7	27.7			

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	678	509	848	Beckman Access
	µg/dl	24.4	18.3	30.5	
	nmol/l	677	508	846	Tosoh Series
	µg/dl	24.4	18.3	30.5	
	nmol/l	586	440	733	Vitros ECI
	µg/dl	21.1	15.8	26.4	
	nmol/l	631	473	789	Roche Cobas e601/602
	µg/dl	22.7	17.0	28.4	
	nmol/l	663	497	829	Roche Cobas 4000/E411
	µg/dl	23.9	17.9	29.9	
	nmol/l	787	590	984	Siemens Centaur CP
	µg/dl	28.3	21.2	35.4	
	nmol/l	636	477	795	Roche Cobas 4000/e411 Gen II
	µg/dl	22.9	17.2	28.6	
	nmol/l	627	470	784	Roche Cobas e601/602 Gen II
	µg/dl	22.6	16.9	28.3	
	nmol/l	646	485	808	Roche Elecsys Gen II
	µg/dl	23.3	17.5	29.1	
nmol/l	594	446	743	Diasorin Liaison XL	
µg/dl	21.4	16.1	26.7		
nmol/l	760	570	950	Siemens Atellica IM	
µg/dl	27.4	20.5	34.3		
nmol/l	627	470	784	Roche Cobas e402/e801	
µg/dl	22.6	16.9	28.3		
nmol/l	690	518	863	Tosoh AIA-CL Series	
µg/dl	24.8	18.6	31.0		
nmol/l	556	417	695	Abbott Alinity i	
µg/dl	20.0	15.0	25.0		
DHEA-S	µmol/l	13.5	10.8	16.2	Abbott Architect
	µmol/l	11.9	9.52	14.3	Siemens Immulite 2000/2500
	µmol/l	10.6	8.48	12.7	Siemens Immulite 1000
	µmol/l	11.5	9.20	13.8	Beckman Dxl800
	µmol/l	18.8	15.0	22.6	Roche Elecsys
	µmol/l	12.3	9.84	14.8	Beckman Access
	µmol/l	10.9	8.72	13.1	Siemens Centaur XP/XPT/Classic
	µmol/l	16.9	13.5	20.3	Roche Cobas 4000/E411
	µmol/l	16.7	13.4	20.0	Roche Cobas e601/602
	µmol/l	10.0	8.00	12.0	Diasorin Liaison XL
	µmol/l	11.2	8.96	13.4	Siemens Atellica IM
	µmol/l	15.9	12.7	19.1	Roche Cobas e402/e801
	µmol/l	13.7	11.0	16.4	Abbott Alinity i
Digoxin	nmol/l	2.38	1.90	2.86	Abbott Architect (CMIA)
	ng/ml	1.86	1.48	2.24	
	nmol/l	2.60	2.08	3.12	BioMerieux Vidas
	ng/ml	2.03	1.62	2.44	



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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	3.13	2.50	3.76	Siemens Centaur XP/XPT/Classic
	ng/ml	2.44	1.95	2.93	
	nmol/l	2.78	2.22	3.34	Siemens Dimension
	ng/ml	2.17	1.73	2.61	
	nmol/l	2.91	2.33	3.49	Siemens Immulite 2000/2500
	ng/ml	2.27	1.82	2.72	
	nmol/l	2.81	2.25	3.37	Beckman Dxl800
	ng/ml	2.19	1.76	2.62	
	nmol/l	2.57	2.06	3.08	Roche Integra
	ng/ml	2.01	1.61	2.41	
	nmol/l	2.81	2.25	3.37	Roche Cobas e601/602
	ng/ml	2.19	1.76	2.62	
	nmol/l	2.87	2.30	3.44	Beckman AU400/600/640/2700/5400
	ng/ml	2.24	1.80	2.68	
	nmol/l	2.84	2.27	3.41	Roche Cobas 4000/E411
	ng/ml	2.22	1.77	2.67	
	nmol/l	2.53	2.02	3.04	Abbott Architect (PETINA)
	ng/ml	1.98	1.58	2.38	
	nmol/l	2.75	2.20	3.30	Roche Cobas e402/e801
	ng/ml	2.15	1.72	2.58	
nmol/l	3.15	2.52	3.78	Siemens Atellica IM	
ng/ml	2.46	1.97	2.95		
nmol/l	2.84	2.27	3.41	Siemens Atellica CH	
ng/ml	2.22	1.77	2.67		
nmol/l	2.54	2.03	3.05	Abbott Alinity (CMIA)	
ng/ml	1.98	1.59	2.37		
nmol/l	2.69	2.15	3.23	Abbott Alinity (PETINA)	
ng/ml	2.10	1.68	2.52		
nmol/l	3.07	2.46	3.68	Gravimetric	
ng/ml	2.40	1.92	2.87		
nmol/l	2.75	2.20	3.30	Roche Cobas C303/501/502/503/701	
ng/ml	2.15	1.72	2.58		
Ethosuximide	µmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	93.2	74.6	112	Abbott Architect
	ng/ml = µg/l	67.0	53.6	80.4	BioMerieux Vidas
	ng/ml = µg/l	64.7	51.8	77.6	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	87.2	69.8	105	Siemens Dimension
	ng/ml = µg/l	75.7	60.6	90.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	66.0	52.8	79.2	Siemens Immulite 1000
	ng/ml = µg/l	58.9	47.1	70.7	Beckman Dxl800
	ng/ml = µg/l	91.9	73.5	110	Roche Elecsys/Cobas e411
	ng/ml = µg/l	74.6	59.7	89.5	Diasorin Liaison
	ng/ml = µg/l	91.0	72.8	109	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	60.1	48.1	72.1	Beckman Access
ng/ml = µg/l	59.4	47.5	71.3	Tosoh Series	

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	54.2	43.4	65.0	Vitros ECI
	ng/ml = µg/l	88.5	70.8	106	Roche Cobas 4000/c311
	ng/ml = µg/l	72.8	58.2	87.4	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	91.1	72.9	109	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	66.2	53.0	79.4	Siemens Centaur CP
	ng/ml = µg/l	87.6	70.1	105	Diasorin Liaison XL
	ng/ml = µg/l	95.1	76.1	114	Abbott Alinity i
	ng/ml = µg/l	60.5	48.4	72.6	Siemens Atellica IM
	ng/ml = µg/l	91.2	73.0	109	Roche Cobas e402/e801
Folate	nmol/l	9.89	7.52	12.3	Abbott Architect
	ng/ml	4.36	3.32	5.40	
	nmol/l	22.5	17.1	27.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	9.92	7.54	12.3	
	nmol/l	8.44	6.41	10.5	Siemens Immulite 2000
	ng/ml	3.72	2.83	4.61	
	nmol/l	11.5	8.74	14.3	Beckman Dxl 600 / 800 - A14208
	ng/ml	5.07	3.85	6.29	
	nmol/l	11.8	8.97	14.6	Beckman Access
	ng/ml	5.20	3.96	6.44	
	nmol/l	7.68	5.84	9.52	Vitros ECI
	ng/ml	3.39	2.58	4.20	
	nmol/l	6.76	5.14	8.38	Siemens Dimension
	ng/ml	2.98	2.27	3.69	
	nmol/l	11.9	9.04	14.8	Beckman Dxl 600 / 800 - A98032
	ng/ml	5.25	3.99	6.51	
	nmol/l	26.5	20.1	32.9	Siemens Centaur CP (enhanced kit)
	ng/ml	11.7	8.86	14.5	
	nmol/l	10.8	8.21	13.4	Roche Folate III - 04476433
	ng/ml	4.76	3.62	5.90	
	nmol/l	10.8	8.21	13.4	Roche Elecsys Folate
ng/ml	4.76	3.62	5.90		
nmol/l	11.1	8.44	13.8	Roche Folate III - 07559992	
ng/ml	4.90	3.72	6.08		
nmol/l	19.9	15.1	24.7	Siemens Atellica IM	
ng/ml	8.78	6.66	10.9		
nmol/l	10.7	8.13	13.3	Abbott Alinity i	
ng/ml	4.72	3.59	5.85		
nmol/l	11.6	8.82	14.4	Roche Folate 07027290 e801	
ng/ml	5.12	3.89	6.35		
Free T3	pmol/l	10.6	7.95	13.3	Abbott Architect, 2 point calibration
	ng/dl	0.689	0.517	0.861	
	pg/ml	6.90	5.18	8.62	
	pmol/l	11.6	8.70	14.5	BioMerieux Vidas
	ng/dl	0.754	0.566	0.942	
	pg/ml	7.55	5.66	9.44	
	pmol/l	11.8	8.85	14.8	Siemens Centaur XP/XPT/Classic
ng/dl	0.767	0.575	0.959		
pg/ml	7.68	5.76	9.60		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	8.47	6.35	10.6	Siemens Immulite 2000/2500
	ng/dl	0.551	0.413	0.689	
	pg/ml	5.51	4.13	6.89	
	pmol/l	9.21	6.91	11.5	Siemens Immulite 1000
	ng/dl	0.599	0.449	0.749	
	pg/ml	6.00	4.50	7.50	
	pmol/l	8.46	6.35	10.6	Beckman Dxl800
	ng/dl	0.550	0.413	0.687	
	pg/ml	5.51	4.13	6.89	
	pmol/l	13.7	10.3	17.1	Roche Elecsys
	ng/dl	0.891	0.670	1.11	
	pg/ml	8.92	6.71	11.1	
	pmol/l	14.6	11.0	18.3	Diasorin Liaison
	ng/dl	0.949	0.715	1.18	
	pg/ml	9.50	7.16	11.8	
	pmol/l	9.44	7.08	11.8	Beckman Access
	ng/dl	0.614	0.460	0.768	
	pg/ml	6.15	4.61	7.69	
	pmol/l	15.6	11.7	19.5	Tosoh Series
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.2	7.62	12.8	
	pmol/l	28.4	21.3	35.5	Vitros ECi
	ng/dl	1.85	1.38	2.32	
	pg/ml	18.5	13.9	23.1	
	pmol/l	13.5	10.1	16.9	Roche Cobas 4000/E411
	ng/dl	0.878	0.657	1.10	
	pg/ml	8.79	6.58	11.0	
	pmol/l	13.6	10.2	17.0	Roche Cobas e601/602
	ng/dl	0.884	0.663	1.11	
	pg/ml	8.85	6.64	11.1	
pmol/l	13.9	10.4	17.4	Fujirebio Lumipulse G Series	
ng/dl	0.904	0.676	1.13		
pg/ml	9.05	6.77	11.3		
pmol/l	12.0	9.00	15.0	Siemens Centaur CP	
ng/dl	0.780	0.585	0.975		
pg/ml	7.81	5.86	9.76		
pmol/l	14.0	10.5	17.5	Sysmex HISCL Series	
ng/dl	0.910	0.683	1.14		
pg/ml	9.11	6.84	11.4		
pmol/l	15.5	11.6	19.4	Diasorin Liaison XL	
ng/dl	1.01	0.754	1.27		
pg/ml	10.1	7.55	12.7		
pmol/l	12.5	9.38	15.6	Siemens Atellica IM	
ng/dl	0.813	0.610	1.02		
pg/ml	8.14	6.11	10.2		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	11.1	8.33	13.9	Abbott Alinity, 2 point cal
	ng/dl	0.722	0.541	0.903	
	pg/ml	7.23	5.42	9.04	
	pmol/l	10.7	8.03	13.4	Abbott Architect, 6 point calibration
	ng/dl	0.696	0.522	0.870	
	pg/ml	6.97	5.23	8.71	
	pmol/l	13.6	10.2	17.0	Roche Cobas e402/e801
	ng/dl	0.884	0.663	1.11	
	pg/ml	8.85	6.64	11.1	
	pmol/l	12.5	9.38	15.6	Tosoh AIA-CL Series
	ng/dl	0.813	0.610	1.02	
	pg/ml	8.14	6.11	10.2	
pmol/l	11.1	8.33	13.9	Abbott Alinity, 6 point cal	
ng/dl	0.722	0.541	0.903		
pg/ml	7.23	5.42	9.04		
Free T4	pmol/l	21.6	16.2	27.0	Abbott Architect
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	22.6	17.0	28.3	Siemens Centaur XP/XPT/Classic
	ng/dl	1.76	1.33	2.19	
	pg/ml	17.6	13.3	21.9	
	pmol/l	30.1	22.6	37.6	CIS RIA Coated tube
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	pmol/l	32.2	24.2	40.3	Siemens Immulite 2000/2500
	ng/dl	2.51	1.89	3.13	
	pg/ml	25.1	18.9	31.3	
	pmol/l	33.1	24.8	41.4	Siemens Immulite 1000
	ng/dl	2.58	1.93	3.23	
	pg/ml	25.8	19.3	32.3	
	pmol/l	23.9	17.9	29.9	Beckman DxI800
	ng/dl	1.86	1.40	2.32	
	pg/ml	18.6	14.0	23.2	
	pmol/l	28.8	21.6	36.0	Roche Elecsys
	ng/dl	2.25	1.68	2.82	
	pg/ml	22.5	16.8	28.2	
	pmol/l	33.0	24.8	41.3	Diasorin Liaison
	ng/dl	2.57	1.93	3.21	
	pg/ml	25.7	19.3	32.1	
pmol/l	24.8	18.6	31.0	Beckman Access	
ng/dl	1.93	1.45	2.41		
pg/ml	19.3	14.5	24.1		
pmol/l	30.5	22.9	38.1	Tosoh Series	
ng/dl	2.38	1.79	2.97		
pg/ml	23.8	17.9	29.7		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	63.5	47.6	79.4	Vitros ECI
	ng/dl	4.95	3.71	6.19	
	pg/ml	49.5	37.1	61.9	
	pmol/l	29.3	22.0	36.6	BioMerieux Vidas
	ng/dl	2.29	1.72	2.86	
	pg/ml	22.9	17.2	28.6	
	pmol/l	29.1	21.8	36.4	Roche Cobas e601/602
	ng/dl	2.27	1.70	2.84	
	pg/ml	22.7	17.0	28.4	
	pmol/l	21.5	16.1	26.9	Immunotech IRMA
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	29.0	21.8	36.3	Roche Cobas 4000/E411
	ng/dl	2.26	1.70	2.82	
	pg/ml	22.6	17.0	28.2	
	pmol/l	30.1	22.6	37.6	Biomerieux Vidas FT4N Kit
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	pmol/l	23.1	17.3	28.9	Fujirebio Lumipulse G Series
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	24.4	18.3	30.5	Siemens Dimension Exl LOCI
	ng/dl	1.90	1.43	2.37	
	pg/ml	19.0	14.3	23.7	
	pmol/l	23.0	17.3	28.8	Siemens Centaur CP
	ng/dl	1.79	1.35	2.23	
	pg/ml	17.9	13.5	22.3	
	pmol/l	30.6	23.0	38.3	Sysmex HISCL Series
	ng/dl	2.39	1.79	2.99	
	pg/ml	23.9	17.9	29.9	
pmol/l	35.2	26.4	44.0	Diasorin Liaison XL	
ng/dl	2.75	2.06	3.44		
pg/ml	27.5	20.6	34.4		
pmol/l	23.1	17.3	28.9	Siemens Atellica IM	
ng/dl	1.80	1.35	2.25		
pg/ml	18.0	13.5	22.5		
pmol/l	20.8	15.6	26.0	Abbott Alinity i	
ng/dl	1.62	1.22	2.02		
pg/ml	16.2	12.2	20.2		
pmol/l	29.2	21.9	36.5	Roche Cobas e402/e801	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
pmol/l	29.2	21.9	36.5	Tosoh AIA-CL Series	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
FSH	mU/ml	24.1	19.3	28.9	Abbott Architect

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	28.8	23.0	34.6	BioMerieux Vidas
	mU/ml	30.3	24.2	36.4	Siemens Centaur XP/XPT/Classic
	mU/ml	25.7	20.6	30.8	Siemens Immulite 2000/2500
	mU/ml	26.7	21.4	32.0	Siemens Immulite 1000
	mU/ml	28.6	22.9	34.3	Beckman Dxl800
	mU/ml	26.3	21.0	31.6	Roche/BM Elecsys
	mU/ml	27.9	22.3	33.5	Beckman Access
	mU/ml	29.2	23.4	35.0	Tosoh Series
	mU/ml	20.0	16.0	24.0	Vitros ECi
	mU/ml	27.2	21.8	32.6	Roche Cobas 4000/E411
	mU/ml	25.0	20.0	30.0	Roche Cobas e601/602
	mU/ml	23.2	18.6	27.8	Fujirebio Lumipulse G Series
	mU/ml	29.1	23.3	34.9	Siemens Centaur CP
	mU/ml	37.0	29.6	44.4	Diasorin Liaison XL
	mU/ml	30.0	24.0	36.0	Siemens Atellica IM
mU/ml	24.7	19.8	29.6	Abbott Alinity i	
mU/ml	25.4	20.3	30.5	Roche Cobas e402/e801	
Gentamicin	µmol/l	7.85	6.28	9.42	Roche Integra
	µg/ml	3.75	3.00	4.50	
	µmol/l	8.70	6.96	10.4	Siemens Centaur XP/XPT/Classic
	µg/ml	4.16	3.33	4.99	
	µmol/l	8.54	6.83	10.2	Abbott Architect (CMIA)
	µg/ml	4.08	3.26	4.90	
	µmol/l	8.67	6.94	10.4	Siemens Dimension Vista
	µg/ml	4.14	3.32	4.96	
	µmol/l	6.20	4.96	7.44	Roche Cobas 6000/8000 Online KIMS
	µg/ml	2.96	2.37	3.55	
	µmol/l	8.15	6.52	9.78	Roche Cobas 6000/8000 CEDIA
	µg/ml	3.90	3.12	4.68	
	µmol/l	8.26	6.61	9.91	Abbott Architect (PETINA)
	µg/ml	3.95	3.16	4.74	
	µmol/l	9.85	7.88	11.8	EMIT
µg/ml	4.71	3.77	5.65		
µmol/l	8.09	6.47	9.71	Siemens Atellica CH	
µg/ml	3.87	3.09	4.65		
µmol/l	8.83	7.06	10.6	Abbott Alinity (PETINA)	
µg/ml	4.22	3.37	5.07		
µmol/l	8.16	6.53	9.79	Gravimetric	
µg/ml	3.90	3.12	4.68		
Growth Hormone (GH)	µU/ml	18.3	14.6	22.0	Siemens Immulite 2000/2500
	ng/ml	6.09	4.86	7.32	
	µU/ml	16.5	13.2	19.8	Siemens Immulite 1000
	ng/ml	5.49	4.40	6.58	
	µU/ml	13.5	10.8	16.2	Beckman Dxl800
	ng/ml	4.50	3.60	5.40	
µU/ml	14.6	11.7	17.5	Beckman Access	
ng/ml	4.86	3.90	5.82		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	µU/ml	18.0	14.4	21.6	Tosoh Series
	ng/ml	5.99	4.80	7.18	
	µU/ml	14.5	11.6	17.4	Diasorin Liaison
	ng/ml	4.83	3.86	5.80	
	µU/ml	16.2	13.0	19.4	Roche Cobas 4000/E411
	ng/ml	5.39	4.33	6.45	
	µU/ml	16.4	13.1	19.7	Roche Cobas e601/602
	ng/ml	5.46	4.36	6.56	
	µU/ml	14.2	11.4	17.0	Diasorin Liaison XL
	ng/ml	4.73	3.80	5.66	
Immunoglobulin E	µU/ml	16.4	13.1	19.7	Roche Cobas e402/e801
	ng/ml	5.46	4.36	6.56	
	µU/ml	15.7	12.6	18.8	Tosoh AIA-CL Series
	ng/ml	5.23	4.20	6.26	
	KIU/I = IU/ml	107	85.6	128	Abbott Architect
	KIU/I = IU/ml	119	95.2	143	BioMerieux Vidas
	KIU/I = IU/ml	128	102	154	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	131	105	157	Siemens Immulite 2000/2500
	KIU/I = IU/ml	130	104	156	Siemens Immulite 1000
	KIU/I = IU/ml	140	112	168	Roche Elecsys
	KIU/I = IU/ml	122	97.6	146	Pharmacia Unicap
	KIU/I = IU/ml	116	92.8	139	Tosoh Series
	KIU/I = IU/ml	142	114	170	Roche Cobas 4000/E411
	KIU/I = IU/ml	138	110	166	Roche Cobas e601/602
	KIU/I = IU/ml	123	98.4	148	Siemens Centaur CP
KIU/I = IU/ml	155	124	186	Agappe Mispa i2	
KIU/I = IU/ml	131	105	157	Siemens Atellica IM	
KIU/I = IU/ml	141	113	169	Roche Cobas e402/e801	
KIU/I = IU/ml	108	86.4	130	Abbott Alinity	
Insulin	mU/l	12.2	9.15	15.3	Siemens Centaur XP/XPT/Classic
	µU/ml	12.2	9.15	15.3	
	mU/l	5.11	3.83	6.39	Siemens Immulite 1000
	µU/ml	5.11	3.83	6.39	
	mU/l	5.12	3.84	6.40	Siemens Immulite 2000
	µU/ml	5.12	3.84	6.40	
	mU/l	14.0	10.5	17.5	Roche Elecsys
	µU/ml	14.0	10.5	17.5	
	mU/l	10.7	8.03	13.4	Beckman Access
	µU/ml	10.7	8.03	13.4	
	mU/l	11.1	8.33	13.9	Abbott Architect
	µU/ml	11.1	8.33	13.9	
	mU/l	16.5	12.4	20.6	Tosoh Series
	µU/ml	16.5	12.4	20.6	
mU/l	14.1	10.6	17.6	Roche Cobas 4000/E411	
µU/ml	14.1	10.6	17.6		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	10.2	7.65	12.8	Beckman Dxl 600/800
	µU/ml	10.2	7.65	12.8	
	mU/l	15.0	11.3	18.8	Diasorin Liaison
	µU/ml	15.0	11.3	18.7	
	mU/l	13.9	10.4	17.4	Roche Cobas 6000/8000
	µU/ml	13.9	10.4	17.4	
	mU/l	12.7	9.53	15.9	Fujirebio Lumipulse G Series
	µU/ml	12.7	9.53	15.9	
	mU/l	15.8	11.9	19.8	Diasorin Liaison XL
	µU/ml	15.8	11.9	19.7	
	mU/l	12.3	9.23	15.4	Siemens Atellica IM
	µU/ml	12.3	9.23	15.4	
	mU/l	9.99	7.49	12.5	Abbott Alinity i
	µU/ml	9.99	7.49	12.5	
Luteinising Hormone (LH)	mU/l	17.4	13.1	21.8	Tosoh AIA-CL Series
	µU/ml	17.4	13.1	21.7	
	mU/l	10.9	8.18	13.6	Vitros ECi
	µU/ml	10.9	8.18	13.6	
	mU/ml	25.2	20.2	30.2	Abbott Architect
	mU/ml	28.7	23.0	34.4	BioMerieux Vidas
	mU/ml	31.7	25.4	38.0	Siemens Centaur XP/XPT/Classic
	mU/ml	43.6	34.9	52.3	Siemens Immulite 2000
	mU/ml	47.7	38.2	57.2	Siemens Immulite 1000
	mU/ml	26.2	21.0	31.4	Beckman Dxl800
	mU/ml	34.1	27.3	40.9	Roche Elecsys
	mU/ml	37.8	30.2	45.4	Diasorin Liaison
	mU/ml	27.1	21.7	32.5	Beckman Access
	mU/ml	28.5	22.8	34.2	Tosoh Series
mU/ml	41.5	33.2	49.8	Vitros ECi	
mU/ml	34.8	27.8	41.8	Roche Cobas 4000/E411	
mU/ml	34.5	27.6	41.4	Roche Cobas e601/602	
mU/ml	28.5	22.8	34.2	Fujirebio Lumipulse G Series	
mU/ml	31.9	25.5	38.3	Siemens Centaur CP	
mU/ml	39.6	31.7	47.5	Diasorin Liaison XL	
mU/ml	32.2	25.8	38.6	Siemens Atellica IM	
mU/ml	24.7	19.8	29.6	Abbott Alinity i	
mU/ml	34.6	27.7	41.5	Roche Cobas e402/e801	
Oestradiol	pmol/l	672	538	806	Abbott Architect
	pg/ml	183	146	220	
	pmol/l	1346	1077	1615	BioMerieux Vidas
	pg/ml	366	293	439	
	pmol/l	958	766	1150	Siemens Centaur XP/XPT/Classic
	pg/ml	261	208	314	
	pmol/l	984	787	1181	Siemens Immulite 2000/2500
	pg/ml	268	214	322	
pmol/l	967	774	1160	Siemens Immulite 1000	
pg/ml	263	211	315		



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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	682	546	818	Beckman DxI800
	pg/ml	186	149	223	
	pmol/l	704	563	845	Roche Elecsys (Estradiol II)
	pg/ml	191	153	229	
	pmol/l	808	646	970	Beckman Access
	pg/ml	220	176	264	
	pmol/l	800	640	960	Tosoh (E2)
	pg/ml	218	174	262	
	pmol/l	1095	876	1314	Vitros ECi
	pg/ml	298	238	358	
	pmol/l	602	482	722	Diasorin Liaison
	pg/ml	164	131	197	
	pmol/l	721	577	865	Roche Cobas e601/602 (Estradiol II)
	pg/ml	196	157	235	
	pmol/l	741	593	889	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	202	161	243	
	pmol/l	964	771	1157	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	262	210	314	
	pmol/l	989	791	1187	Siemens Centaur XP/XPT/Classic E26 III
	pg/ml	269	215	323	
	pmol/l	720	576	864	Tosoh (iE2-hsE2)
	pg/ml	196	157	235	
	pmol/l	987	790	1184	Siemens Centaur CP
	pg/ml	268	215	321	
	pmol/l	970	776	1164	Siemens Centaur CP Enhanced (eE2)
	pg/ml	264	211	317	
	pmol/l	735	588	882	Roche Cobas e601/602 (Estradiol III)
	pg/ml	200	160	240	
	pmol/l	731	585	877	Roche Elecsys (Estradiol III)
	pg/ml	199	159	239	
	pmol/l	728	582	874	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	198	158	238	
pmol/l	551	441	661	Diasorin Liaison XL	
pg/ml	150	120	180		
pmol/l	761	609	913	Beckman Access / Access 2 Sensitive B84493	
pg/ml	207	166	248		
pmol/l	682	546	818	Beckman DxI600/800 Sensitive B84493	
pg/ml	186	149	223		
pmol/l	1005	804	1206	Siemens Atellica IM	
pg/ml	273	219	327		
pmol/l	664	531	797	Abbott Alinity i	
pg/ml	181	144	218		
pmol/l	727	582	872	Roche Cobas e801 (Estradiol III)	
pg/ml	198	158	238		
pmol/l	823	658	988	Tosoh AIA-CL Series	
pg/ml	224	179	269		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Paracetamol	mmol/l	0.336	0.269	0.403	Abbott Architect
	mg/l	50.8	40.7	60.9	
	mmol/l	0.320	0.256	0.384	Roche Cobas c501/502/503/701/702
	mg/l	48.4	38.7	58.1	
	mmol/l	0.339	0.271	0.407	Beckman AU Instruments
	mg/l	51.3	41.0	61.6	
	mmol/l	0.334	0.267	0.401	Abbott Alinity
	mg/l	50.5	40.4	60.6	
	mmol/l	0.348	0.280	0.420	Gravimetric
	mg/l	52.7	42.4	63.5	
Phenobarbital	µmol/l	79.6	63.7	95.5	Abbott Architect (CMIA)
	µg/ml	18.5	14.8	22.2	
	µmol/l	71.2	57.0	85.4	Roche Cobas e601/602/801
	µg/ml	16.5	13.2	19.8	
	µmol/l	80.0	64.0	96.0	Siemens Immulite 2000/2500
	µg/ml	18.6	14.8	22.4	
	µmol/l	72.4	57.9	86.9	Beckman AU400/600/640/2700/5400
	µg/ml	16.8	13.4	20.2	
	µmol/l	108	86.4	130	Siemens Centaur XP/XPT/Classic
	µg/ml	25.1	20.0	30.2	
	µmol/l	78.6	62.9	94.3	Roche Integra
	µg/ml	18.2	14.6	21.8	
	µmol/l	73.6	58.9	88.3	Roche Cobas C303/501/502/503/701
	µg/ml	17.1	13.7	20.5	
	µmol/l	74.1	59.3	88.9	Abbott Architect (PETINA)
	µg/ml	17.2	13.8	20.6	
	µmol/l	81.9	65.5	98.3	Siemens Atellica CH
	µg/ml	19.0	15.2	22.8	
µmol/l	67.5	54.0	81.0	Abbott Alinity (PETINA)	
µg/ml	15.7	12.5	18.9		
µmol/l	77.6	62.1	93.1	Gravimetric	
µg/ml	18.0	14.4	21.6		
Phenytoin	µmol/l	67.3	53.8	80.8	Abbott Architect
	µg/ml	17.0	13.6	20.4	
	µmol/l	77.7	62.2	93.2	Siemens Centaur XP/XPT/Classic
	µg/ml	19.6	15.7	23.5	
	µmol/l	74.7	59.8	89.6	Siemens Dimension
	µg/ml	18.9	15.1	22.7	
	µmol/l	65.7	52.6	78.8	Siemens Immulite 2000/2500
	µg/ml	16.6	13.3	19.9	
	µmol/l	66.9	53.5	80.3	Roche Integra
	µg/ml	16.9	13.5	20.3	
µmol/l	66.6	53.3	79.9	Roche Cobas 6000/8000	
µg/ml	16.8	13.5	20.1		
µmol/l	66.6	53.3	79.9	Beckman DxC	
µg/ml	16.8	13.5	20.1		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	70.4	56.3	84.5	Beckman AU Instruments
	µg/ml	17.8	14.2	21.4	
	µmol/l	63.0	50.4	75.6	EMIT
	µg/ml	15.9	12.7	19.1	
	µmol/l	73.8	59.0	88.6	Siemens Atellica CH
	µg/ml	18.6	14.9	22.3	
Primidone	µmol/l	69.4	55.5	83.3	Abbott Alinity
	µg/ml	17.5	14.0	21.0	
	µmol/l	71.3	57.0	85.6	Gravimetric
Progesterone	µg/ml	18.0	14.4	21.6	
	µmol/l	22.5	18.0	27.0	Gravimetric
Progesterone	µg/ml	4.91	3.93	5.89	
	nmol/l	28.4	22.7	34.1	Abbott Architect
Progesterone	ng/ml	8.89	7.11	10.7	
	nmol/l	40.8	32.6	49.0	BioMerieux Vidas
Progesterone	ng/ml	12.8	10.2	15.4	
	nmol/l	24.3	19.4	29.2	Siemens Centaur XP/XPT/Classic
Progesterone	ng/ml	7.61	6.07	9.15	
	nmol/l	25.9	20.7	31.1	Siemens Immulite 2000/2500
Progesterone	ng/ml	8.11	6.48	9.74	
	nmol/l	30.0	24.0	36.0	Siemens Immulite 1000
Progesterone	ng/ml	9.39	7.51	11.3	
	nmol/l	30.3	24.2	36.4	Beckman Dxl Prog Cal 33555
Progesterone	ng/ml	9.48	7.57	11.4	
	nmol/l	31.6	25.3	37.9	Roche Elecsys (Prog. II)
Progesterone	ng/ml	9.89	7.92	11.9	
	nmol/l	31.7	25.4	38.0	Beckman Access Prog Cal 33555
Progesterone	ng/ml	9.92	7.95	11.9	
	nmol/l	36.8	29.4	44.2	Tosoh Series
Progesterone	ng/ml	11.5	9.20	13.8	
	nmol/l	36.1	28.9	43.3	Vitros ECi
Progesterone	ng/ml	11.3	9.05	13.6	
	nmol/l	32.1	25.7	38.5	Roche Cobas 4000/e411 (Prog. II)
Progesterone	ng/ml	10.0	8.04	12.0	
	nmol/l	33.1	26.5	39.7	Roche Cobas e601/602 (Prog. II)
Progesterone	ng/ml	10.4	8.29	12.5	
	nmol/l	29.2	23.4	35.0	Diasorin Liaison
Progesterone	ng/ml	9.14	7.32	11.0	
	nmol/l	25.9	20.7	31.1	Beckman Dxl Prog DE Cal A80773
Progesterone	ng/ml	8.11	6.48	9.74	
	nmol/l	29.6	23.7	35.5	Beckman Access Prog DE Cal A80773
Progesterone	ng/ml	9.26	7.42	11.1	
	nmol/l	23.7	19.0	28.4	Siemens Centaur CP
Progesterone	ng/ml	7.42	5.95	8.89	
	nmol/l	33.0	26.4	39.6	Roche Cobas e601/602 (Prog. III)
Progesterone	ng/ml	10.3	8.26	12.3	

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	32.2	25.8	38.6	Roche Elecsys (Prog. III)
	ng/ml	10.1	8.08	12.1	
	nmol/l	32.6	26.1	39.1	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	10.2	8.17	12.2	
	nmol/l	27.8	22.2	33.4	Diasorin Liaison XL
	ng/ml	8.70	6.95	10.5	
	nmol/l	27.2	21.8	32.6	Abbott Alinity i
	ng/ml	8.51	6.82	10.2	
	nmol/l	33.0	26.4	39.6	Roche Cobas e801 (Prog. III)
	ng/ml	10.3	8.26	12.3	
	nmol/l	36.3	29.0	43.6	Tosoh AIA-CL Series
	ng/ml	11.4	9.08	13.7	
	nmol/l	24.9	19.9	29.9	Siemens Atellica IM
	ng/ml	7.79	6.23	9.36	
Prolactin	µU/ml	675	540	810	Abbott Architect
	µU/ml	784	627	941	BioMerieux Vidas
	µU/ml	550	440	660	Siemens Centaur XP/XPT/Classic
	µU/ml	591	473	709	Siemens Immulite 2000/2500
	µU/ml	674	539	809	Siemens Immulite 1000
	µU/ml	559	447	671	Beckman Dxl800
	µU/ml	635	508	762	Roche Elecsys
	µU/ml	635	508	762	Diasorin Liaison
	µU/ml	589	471	707	Beckman Access
	µU/ml	643	514	772	Tosoh Series
	µU/ml	582	466	698	Vitros Eci
	µU/ml	620	496	744	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	675	540	810	Immunotech IRMA
	µU/ml	646	517	775	Roche Cobas 4000/E411
	µU/ml	618	494	742	Roche Cobas e601/602
	µU/ml	745	596	894	Fujirebio Lumipulse G Series
	µU/ml	543	434	652	Siemens Centaur CP
	µU/ml	713	570	856	Diasorin Liaison XL
	µU/ml	551	441	661	Siemens Atellica IM
	µU/ml	700	560	840	Abbott Alinity i
µU/ml	614	491	737	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	11.8	8.85	14.8	Abbott Architect
	ng/ml = µg/l	12.1	9.08	15.1	BioMerieux Vidas
	ng/ml = µg/l	9.69	7.27	12.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	10.6	7.95	13.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	11.0	8.25	13.8	Siemens Immulite 1000
	ng/ml = µg/l	10.3	7.73	12.9	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	7.56	5.67	9.45	Roche Elecsys
	ng/ml = µg/l	9.23	6.92	11.5	Diasorin Liaison
	ng/ml = µg/l	10.3	7.73	12.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	7.58	5.69	9.48	Tosoh Series

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	7.56	5.67	9.45	Roche Cobas 4000/E411
	ng/ml = µg/l	7.46	5.60	9.33	Roche Cobas e601/602
	ng/ml = µg/l	9.37	7.03	11.7	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	10.2	7.65	12.8	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	6.78	5.09	8.48	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	8.61	6.46	10.8	Fujirebio Lumipulse G Series
	ng/ml = µg/l	8.46	6.35	10.6	Diasorin Liaison XL
	ng/ml = µg/l	10.1	7.58	12.6	Siemens Atellica IM
	ng/ml = µg/l	11.4	8.55	14.3	Abbott Alinity i
PSA Total	ng/ml = µg/l	7.24	5.43	9.05	Roche Cobas e402/e801
	ng/ml = µg/l	7.52	5.64	9.40	Abbott Architect
	ng/ml = µg/l	10.8	8.10	13.5	BioMerieux Vidas
	ng/ml = µg/l	10.7	8.03	13.4	bioMerieux VIDAS TPSA
	ng/ml = µg/l	9.46	7.10	11.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	10.9	8.18	13.6	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	10.9	8.18	13.6	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	11.7	8.78	14.6	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	9.48	7.11	11.9	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	7.93	5.95	9.91	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	9.71	7.28	12.1	Roche Elecsys
	ng/ml = µg/l	9.06	6.80	11.3	Diasorin Liaison
	ng/ml = µg/l	9.77	7.33	12.2	Beckman Access standardised to Hybritech
	ng/ml = µg/l	9.51	7.13	11.9	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	7.69	5.77	9.61	Tosoh Series
	ng/ml = µg/l	9.89	7.42	12.4	Vitros ECi
	ng/ml = µg/l	11.1	8.33	13.9	CIS RIA Coated tube
	ng/ml = µg/l	9.92	7.44	12.4	Roche Cobas 4000/E411
	ng/ml = µg/l	9.68	7.26	12.1	Roche Cobas e601/602
	ng/ml = µg/l	18.2	13.7	22.8	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	7.46	5.60	9.33	Fujirebio Lumipulse G Series
	ng/ml = µg/l	9.82	7.37	12.3	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	8.96	6.72	11.2	Siemens Centaur CP
	ng/ml = µg/l	9.59	7.19	12.0	Diasorin Liaison XL
ng/ml = µg/l	10.1	7.58	12.6	Siemens Atellica IM	
ng/ml = µg/l	7.58	5.69	9.48	Abbott Alinity i	
ng/ml = µg/l	9.36	7.02	11.7	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	1.15	0.920	1.38	Abbott Architect
	mg/dl	15.9	12.7	19.1	
	mmol/l	1.16	0.928	1.39	Roche Cobas c501/502/503
	mg/dl	16.0	12.8	19.2	
	mmol/l	1.20	0.960	1.44	EMIT
	mg/dl	16.6	13.3	19.9	
	mmol/l	1.22	0.980	1.46	Gravimetric
SHBG	mg/dl	16.9	13.5	20.2	
	nmol/l	39.2	31.4	47.0	Siemens Immulite 1000
	nmol/l	39.4	31.5	47.3	Siemens Immulite 2000/2500

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
SHBG	nmol/l	41.8	33.4	50.2	Abbott Architect
	nmol/l	43.6	34.9	52.3	Beckman Access
	nmol/l	40.2	32.2	48.2	Beckman Dxl800
	nmol/l	38.5	30.8	46.2	Siemens Atellica IM
	nmol/l	39.0	31.2	46.8	Roche analysers - 413417/15
	nmol/l	37.2	29.8	44.6	Roche Cobas e801 - 413429
	nmol/l	40.9	32.7	49.1	Abbott Alinity i
T Uptake	%U	33.6	27.6	39.6	Siemens Immulite 2000
Testosterone	nmol/l	12.3	9.84	14.8	Abbott Architect
	ng/ml	3.54	2.83	4.25	
	ng/dl	354	283	425	
	nmol/l	11.0	8.80	13.2	BioMerieux Vidas
	ng/ml	3.17	2.53	3.81	
	ng/dl	317	253	381	
	nmol/l	12.8	10.2	15.4	Siemens Centaur XP/XPT/Classic
	ng/ml	3.69	2.94	4.44	
	ng/dl	369	294	444	
	nmol/l	11.7	9.36	14.0	CIS RIA Coated tube
	ng/ml	3.37	2.70	4.04	
	ng/dl	337	270	404	
	nmol/l	14.1	11.3	16.9	Siemens Immulite 2000/2500
	ng/ml	4.06	3.25	4.87	
	ng/dl	406	325	487	
	nmol/l	11.0	8.80	13.2	Beckman Dxl800
	ng/ml	3.17	2.53	3.81	
	ng/dl	317	253	381	
	nmol/l	12.0	9.60	14.4	Beckman Access
	ng/ml	3.46	2.76	4.16	
	ng/dl	346	276	416	
	nmol/l	14.6	11.7	17.5	Tosoh Series
	ng/ml	4.20	3.37	5.03	
	ng/dl	420	337	503	
nmol/l	15.9	12.7	19.1	Vitros ECI	
ng/ml	4.58	3.66	5.50		
ng/dl	458	366	550		
nmol/l	12.9	10.3	15.5	Roche Cobas e601/602 Test II	
ng/ml	3.72	2.97	4.47		
ng/dl	372	297	447		
nmol/l	12.6	10.1	15.1	Roche Elecsys Test II	
ng/ml	3.63	2.91	4.35		
ng/dl	363	291	435		
nmol/l	12.7	10.2	15.2	Roche Cobas 4000/e411 Test II	
ng/ml	3.66	2.94	4.38		
ng/dl	366	294	438		
nmol/l	12.3	9.84	14.8	Abbott Architect 2nd Generation	
ng/ml	3.54	2.83	4.25		
ng/dl	354	283	425		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	11.2	8.96	13.4	Siemens Centaur CP
	ng/ml	3.23	2.58	3.88	
	ng/dl	323	258	388	
	nmol/l	11.3	9.04	13.6	BioMerieux Vidas Testosterone II
	ng/ml	3.25	2.60	3.90	
	ng/dl	325	260	390	
	nmol/l	12.5	10.0	15.0	Siemens Centaur TST II
	ng/ml	3.60	2.88	4.32	
	ng/dl	360	288	432	
	nmol/l	7.11	5.69	8.53	Diasorin Liaison XL
	ng/ml	2.05	1.64	2.46	
	ng/dl	205	164	246	
	nmol/l	12.2	9.76	14.6	Siemens Atellica IM
	ng/ml	3.51	2.81	4.21	
	ng/dl	351	281	421	
nmol/l	12.7	10.2	15.2	Roche Cobas e801 Test II	
ng/ml	3.66	2.94	4.38		
ng/dl	366	294	438		
nmol/l	17.2	13.8	20.6	Tosoh AIA-CL Series	
ng/ml	4.95	3.97	5.93		
ng/dl	495	397	593		
nmol/l	12.4	9.92	14.9	Abbott Alinity i	
ng/ml	3.57	2.86	4.28		
ng/dl	357	286	428		
Theophylline	µmol/l	82.9	66.3	99.0	Siemens Centaur XP/XPT/Classic
	µg/ml	14.9	11.9	17.9	
	µmol/l	83.8	67.0	101	Roche Integra
	µg/ml	15.1	12.1	18.1	
	µmol/l	70.7	56.6	84.8	Abbott Architect (CMIA)
	µg/ml	12.7	10.2	15.2	
	µmol/l	80.0	64.0	96.0	Roche Cobas 6000/8000
	µg/ml	14.4	11.5	17.3	
	µmol/l	83.5	66.8	100	Beckman DxC
	µg/ml	15.0	12.0	18.0	
	µmol/l	77.2	61.8	92.6	Beckman AU400/600/640/2700/5400
	µg/ml	13.9	11.1	16.7	
µmol/l	77.3	61.8	92.8	Abbott Alinity Enzyme-Immu	
µg/ml	13.9	11.1	16.7		
µmol/l	83.8	67.0	101	Gravimetric	
µg/ml	15.1	12.1	18.2		
Thyroglobulin	ng/ml	14.7	11.0	18.4	Siemens Immulite 1000
	ng/ml	14.9	11.2	18.6	Siemens Immulite 2000
	ng/ml	36.7	27.5	45.9	Roche Elecsys
	ng/ml	30.8	23.1	38.5	Beckman Dxl800
	ng/ml	36.2	27.2	45.3	Roche Cobas 4000/E411

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroglobulin	ng/ml	35.8	26.9	44.8	Roche Cobas e601/602
	ng/ml	32.0	24.0	40.0	Beckman Access
	ng/ml	39.5	29.6	49.4	Abbott Architect 2000i
	ng/ml	35.2	26.4	44.0	Tosoh Series
	ng/ml	35.6	26.7	44.5	Roche Cobas e601/602 Tg II
	ng/ml	36.3	27.2	45.4	Roche Elecsys TGII
	ng/ml	36.4	27.3	45.5	Roche Cobas 4000/E411 TGII
	ng/ml	37.2	27.9	46.5	Diasorin Liaison XL
	ng/ml	34.8	26.1	43.5	Roche Cobas e801 Tg II
	ng/ml	37.7	28.3	47.1	DiaSorin Liaison TG II Gen
	ng/ml	39.4	29.6	49.3	DiaSorin Liaison XL TG II Gen
	ng/ml	38.0	28.5	47.5	Abbott Alinity i
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.74	1.39	2.09	Abbott Architect
	µU/ml = mIU/l	2.02	1.62	2.42	bioMerieux VIDAS TSH
	µU/ml = mIU/l	1.85	1.48	2.22	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.13	1.70	2.56	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	2.67	2.14	3.20	CIS IRMA
	µU/ml = mIU/l	2.18	1.74	2.62	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.09	1.67	2.51	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.01	1.61	2.41	Siemens Immulite 1000
	µU/ml = mIU/l	1.92	1.54	2.30	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	1.98	1.58	2.38	Beckman Dxl800
	µU/ml = mIU/l	2.33	1.86	2.80	Roche Elecsys
	µU/ml = mIU/l	2.71	2.17	3.25	Diasorin Liaison
	µU/ml = mIU/l	1.98	1.58	2.38	Beckman Access Fast TSH
	µU/ml = mIU/l	2.00	1.60	2.40	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.18	1.74	2.62	Tosoh Series
	µU/ml = mIU/l	2.15	1.72	2.58	Vitros ECi
	µU/ml = mIU/l	2.34	1.87	2.81	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.34	1.87	2.81	Roche Cobas e601/602
	µU/ml = mIU/l	2.25	1.80	2.70	ELISA
	µU/ml = mIU/l	1.92	1.54	2.30	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.07	1.66	2.48	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	1.97	1.58	2.36	Siemens Centaur CP
	µU/ml = mIU/l	1.96	1.57	2.35	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	1.97	1.58	2.36	Beckman Dxl 600/800 Access (3rd IS)
µU/ml = mIU/l	2.95	2.36	3.54	Diasorin Liaison XL	
µU/ml = mIU/l	2.09	1.67	2.51	Siemens Atellica IM	
µU/ml = mIU/l	1.76	1.41	2.11	Abbott Alinity i	
µU/ml = mIU/l	2.20	1.76	2.64	Roche Cobas e402/e801	
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	22.5	18.0	27.0	BioMerieux Vidas
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	15.6	12.5	18.7	Siemens Centaur XP/XPT/Classic
	IU/ml	0.016	0.013	0.019	



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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	25.1	20.1	30.1	Siemens Dimension
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	30.6	24.5	36.7	Siemens Immulite 2000
	IU/ml	0.031	0.025	0.037	
	mU/ml=IU/l	31.7	25.4	38.0	Siemens Immulite 1000
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	16.4	13.1	19.7	Beckman Dxl800
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	13.0	10.4	15.6	Diasorin Liaison
	IU/ml	0.013	0.010	0.016	
	mU/ml=IU/l	15.5	12.4	18.6	Roche Cobas Core EIA
	IU/ml	0.016	0.012	0.020	
	mU/ml=IU/l	16.0	12.8	19.2	Beckman Access
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	23.5	18.8	28.2	Tosoh Series
	IU/ml	0.024	0.019	0.029	
	mU/ml=IU/l	25.4	20.3	30.5	Vitros Eci
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	13.1	10.5	15.7	Roche hCG STAT (Intact)
	IU/ml	0.013	0.011	0.015	
	mU/ml=IU/l	15.9	12.7	19.1	Roche hCG+Beta
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	12.8	10.2	15.4	Fujirebio Lumipulse G Series
	IU/ml	0.013	0.010	0.016	
	mU/ml=IU/l	15.8	12.6	19.0	Beckman Access Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	16.2	13.0	19.4	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
mU/ml=IU/l	16.1	12.9	19.3	Siemens Centaur CP	
IU/ml	0.016	0.013	0.019		
mU/ml=IU/l	14.0	11.2	16.8	Diasorin Liaison XL	
IU/ml	0.014	0.011	0.017		
mU/ml=IU/l	16.6	13.3	19.9	Siemens Atellica IM	
IU/ml	0.017	0.013	0.021		
mU/ml=IU/l	14.6	11.7	17.5	Abbott Alinity i	
IU/ml	0.015	0.012	0.018		
mU/ml=IU/l	15.7	12.6	18.8	Roche hCG+Beta e801	
IU/ml	0.016	0.013	0.019		
mU/ml=IU/l	28.9	23.1	34.7	Tosoh AIA-CL Series	
IU/ml	0.029	0.023	0.035		
Total T3	nmol/l	3.01	2.26	3.76	Abbott Architect
	ng/ml	1.96	1.47	2.45	
	ng/dl	196	147	245	
	nmol/l	3.49	2.62	4.36	BioMerieux Vidas
	ng/ml	2.27	1.71	2.83	
ng/dl	227	171	283		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.70	2.78	4.63	Siemens Centaur XP/XPT/Classic
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	3.15	2.36	3.94	Siemens Immulite 2000/2500
	ng/ml	2.05	1.54	2.56	
	ng/dl	205	154	256	
	nmol/l	2.84	2.13	3.55	Siemens Immulite 1000
	ng/ml	1.85	1.39	2.31	
	ng/dl	185	139	231	
	nmol/l	3.23	2.42	4.04	Beckman Dxl800
	ng/ml	2.10	1.58	2.62	
	ng/dl	210	158	262	
	nmol/l	3.70	2.78	4.63	Roche Elecsys
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	3.39	2.54	4.24	Beckman Access
	ng/ml	2.21	1.65	2.77	
	ng/dl	221	165	277	
	nmol/l	3.34	2.51	4.18	Tosoh Series
	ng/ml	2.17	1.63	2.71	
	ng/dl	217	163	271	
	nmol/l	3.93	2.95	4.91	Vitros ECi
	ng/ml	2.56	1.92	3.20	
	ng/dl	256	192	320	
nmol/l	2.41	1.81	3.01	CIS RIA Coated tube	
ng/ml	1.57	1.18	1.96		
ng/dl	157	118	196		
nmol/l	3.57	2.68	4.46	Roche Cobas 4000/E411	
ng/ml	2.32	1.74	2.90		
ng/dl	232	174	290		
nmol/l	2.73	2.05	3.41	Immunotech RIA	
ng/ml	1.78	1.33	2.23		
ng/dl	178	133	223		
nmol/l	3.57	2.68	4.46	Roche Cobas e601/602	
ng/ml	2.32	1.74	2.90		
ng/dl	232	174	290		
nmol/l	3.94	2.96	4.93	Siemens Centaur CP	
ng/ml	2.56	1.93	3.19		
ng/dl	256	193	319		
nmol/l	2.38	1.79	2.98	Diasorin Liaison XL	
ng/ml	1.55	1.17	1.93		
ng/dl	155	117	193		
nmol/l	3.08	2.31	3.85	Abbott Alinity i	
ng/ml	2.01	1.50	2.52		
ng/dl	201	150	252		
nmol/l	3.72	2.79	4.65	Siemens Atellica IM	
ng/ml	2.42	1.82	3.02		
ng/dl	242	182	302		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.88	2.91	4.85	Roche Cobas e402/e801
	ng/ml	2.53	1.89	3.17	
	ng/dl	253	189	317	
	nmol/l	3.31	2.48	4.14	Tosoh AIA-CL Series
	ng/ml	2.15	1.61	2.69	
	ng/dl	215	161	269	
Total T4	nmol/l	109	81.8	136	Abbott Architect
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	119	89.3	149	BioMerieux Vidas
	µg/dl	9.28	6.97	11.6	
	ng/ml	92.8	69.7	116	
	nmol/l	114	85.5	143	Siemens Centaur XP/XPT/Classic
	µg/dl	8.89	6.67	11.1	
	ng/ml	88.9	66.7	111	
	nmol/l	111	83.3	139	Siemens Immulite 2000/2500
	µg/dl	8.66	6.50	10.8	
	ng/ml	86.6	65.0	108	
	nmol/l	108	81.0	135	Siemens Immulite 1000
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	114	85.5	143	Beckman Dxl800
	µg/dl	8.89	6.67	11.1	
	ng/ml	88.9	66.7	111	
	nmol/l	108	81.0	135	Roche Elecsys
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	116	87.0	145	Beckman Access
	µg/dl	9.05	6.79	11.3	
	ng/ml	90.5	67.9	113	
nmol/l	109	81.8	136	Tosoh Series	
µg/dl	8.50	6.38	10.6		
ng/ml	85.0	63.8	106		
nmol/l	112	84.0	140	Vitros ECi	
µg/dl	8.74	6.55	10.9		
ng/ml	87.4	65.5	109		
nmol/l	108	81.0	135	CIS RIA Coated tube	
µg/dl	8.42	6.32	10.5		
ng/ml	84.2	63.2	105		
nmol/l	106	79.5	133	Roche Cobas 4000/E411	
µg/dl	8.27	6.20	10.3		
ng/ml	82.7	62.0	103		
nmol/l	104	78.0	130	Roche Cobas e601/602	
µg/dl	8.11	6.08	10.1		
ng/ml	81.1	60.8	101		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	84.5	63.4	106	Immunotech IRMA
	µg/dl	6.59	4.95	8.23	
	ng/ml	65.9	49.5	82.3	
	nmol/l	123	92.3	154	Siemens Centaur CP
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	92.5	69.4	116	Diasorin Liaison XL
	µg/dl	7.22	5.41	9.03	
	ng/ml	72.2	54.1	90.3	
	nmol/l	108	81.0	135	Abbott Alinity i
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	123	92.3	154	Siemens Atellica IM
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	104	78.0	130	Roche Cobas e402/e801
	µg/dl	8.11	6.08	10.1	
	ng/ml	81.1	60.8	101	
nmol/l	125	93.8	156	Tosoh AIA-CL Series	
µg/dl	9.75	7.32	12.2		
ng/ml	97.5	73.2	122		
Valproic Acid	µmol/l	529	423	635	Abbott Architect (CMIA)
	µg/ml	76.3	61.0	91.6	
	µmol/l	568	454	682	Siemens Centaur XP/XPT/Classic
	µg/ml	82.0	65.5	98.5	
	µmol/l	533	426	640	Siemens Dimension
	µg/ml	76.9	61.5	92.3	
	µmol/l	548	438	658	Siemens Immulite 2000/2500
	µg/ml	79.1	63.2	95.0	
	µmol/l	525	420	630	Roche Integra
	µg/ml	75.8	60.6	91.0	
	µmol/l	547	438	656	Vitros
	µg/ml	78.9	63.2	94.6	
	µmol/l	540	432	648	Roche Cobas 6000/8000
	µg/ml	77.9	62.3	93.5	
	µmol/l	570	456	684	Beckman AU400/600/640/2700/5400
	µg/ml	82.3	65.8	98.8	
	µmol/l	543	434	652	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	78.4	62.6	94.2	
	µmol/l	512	410	614	Abbott Architect (PETINA)
	µg/ml	73.9	59.2	88.6	
µmol/l	570	456	684	EMIT	
µg/ml	82.3	65.8	98.8		
µmol/l	541	433	649	Siemens Atellica CH	
µg/ml	78.1	62.5	93.7		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	514	411	617	Abbott Alinity (CMIA)
	µg/ml	74.2	59.3	89.1	
	µmol/l	528	422	634	Abbott Alinity (PETINA)
	µg/ml	76.2	60.9	91.5	
Vancomycin	µmol/l	638	510	766	Gravimetric
	µg/ml	92.1	73.6	111	
	µmol/l	6.73	5.38	8.08	Roche Integra
	µg/ml	10.0	7.99	12.0	
	µmol/l	6.22	4.98	7.46	Ortho Vitros Microslide Systems
	µg/ml	9.24	7.40	11.1	
	µmol/l	8.14	6.51	9.77	Abbott Architect (CMIA)
	µg/ml	12.1	9.67	14.5	
	µmol/l	6.54	5.23	7.85	Siemens Centaur XP/XPT/Classic
	µg/ml	9.72	7.77	11.7	
	µmol/l	7.49	5.99	8.99	Siemens Dimension
	µg/ml	11.1	8.90	13.3	
	µmol/l	7.36	5.89	8.83	Roche Cobas 6000/8000
	µg/ml	10.9	8.75	13.1	
	µmol/l	7.13	5.70	8.56	Thermo Scientific QMS Vancomycin
	µg/ml	10.6	8.47	12.7	
Vitamin B12	µmol/l	7.58	6.06	9.10	Abbott Architect (PETINA)
	µg/ml	11.3	9.00	13.6	
	µmol/l	7.39	5.91	8.87	Siemens Atellica CH
	µg/ml	11.0	8.78	13.2	
	µmol/l	7.69	6.15	9.23	Abbott Alinity (CMIA)
	µg/ml	11.4	9.14	13.7	
	µmol/l	7.34	5.87	8.81	Abbott Alinity (PETINA)
	µg/ml	10.9	8.72	13.1	
	µmol/l	7.10	5.68	8.52	Gravimetric
	µg/ml	10.5	8.44	12.7	
	pmol/l	363	290	436	Abbott Architect
	pg/ml	492	393	591	
	pmol/l	401	321	481	Siemens Centaur XP/XPT/Classic
	pg/ml	543	435	651	
	pmol/l	376	301	451	Siemens Immulite 2000
	pg/ml	509	408	610	
pmol/l	300	240	360	Beckman DxI800	
pg/ml	407	325	489		
pmol/l	416	333	499	Roche Elecsys	
pg/ml	564	451	677		
pmol/l	314	251	377	Beckman Access	
pg/ml	425	340	510		
pmol/l	508	406	610	Tosoh Series	
pg/ml	688	550	826		
pmol/l	423	338	508	Vitros ECi	
pg/ml	573	458	688		

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

Cat. No. IA3110 / IA3112 Lot. No. 2107EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	366	293	439	Siemens Dimension
	pg/ml	496	397	595	
	pmol/l	413	330	496	Siemens Centaur CP
	pg/ml	560	447	673	
	pmol/l	406	325	487	Roche Cobas 4000/e411 Gen II
	pg/ml	550	440	660	
	pmol/l	430	344	516	Roche Cobas e601/602 Gen II
	pg/ml	583	466	700	
	pmol/l	328	262	394	Diasorin Liaison XL
	pg/ml	444	355	533	
	pmol/l	413	330	496	Siemens Atellica IM
	pg/ml	560	447	673	
	pmol/l	360	288	432	Abbott Alinity i
	pg/ml	488	390	586	
pmol/l	422	338	506	Roche Cobas e801 Gen II	
pg/ml	572	458	686		