

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

CAT. NO. IA3110	GTIN: 05055273207262	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. 2228EC	EXPIRY: 2025-06-28	

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests.

However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

The Abbott Architect CA19-9 assay utilises an antibody/antigen system based on the 1116-NA-19-9 antibody. There are reports that the formulation employed with this system may return elevated concentrations, when compared to other methods for samples expressing high levels of 1116-NA-19-9 reactive determinants.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C.

Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C.

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

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

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

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

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

MATERIALS PROVIDED

Immunoassay Premium Plus - Level 2: 12 x 5 ml Tri-Level: 4 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

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

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

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Randox Teoranta, Meenmore,
Dungloe, Donegal,
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IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	13.0	9.75	16.3	ELISA
	ng/ml	4.30	3.23	5.37	
	nmol/l	14.6	11.0	18.3	DRG ELISA
	ng/ml	4.83	3.64	6.02	
	nmol/l	12.7	9.53	15.9	DIAsource RIA
ng/ml	4.20	3.15	5.25		
25-OH Vitamin D	nmol/l	62.7	47.0	78.4	Diasorin Liaison
	nmol/l	75.8	56.9	94.8	Siemens Centaur XP/XPT/Classic
	nmol/l	52.2	39.2	65.3	Roche Vitamin D Total
	nmol/l	54.6	41.0	68.3	Abbott Architect (3L52)
	nmol/l	76.3	57.2	95.4	Vitros Eci
	nmol/l	60.5	45.4	75.6	Tosoh Series
	nmol/l	66.6	50.0	83.3	BioMerieux Vidas
	nmol/l	47.6	35.7	59.5	Beckman Dxl 600/800
	nmol/l	61.3	46.0	76.6	Fujirebio Lumipulse G Series
	nmol/l	51.2	38.4	64.0	Beckman Access 25 OH Vitamin D Total
	nmol/l	54.5	40.9	68.1	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	65.0	48.8	81.3	Diasorin Liaison XL
	nmol/l	50.7	38.0	63.4	Roche Vitamin D Total II
	nmol/l	55.7	41.8	69.6	Abbott Alinity i
	nmol/l	76.1	57.1	95.1	Siemens Atellica IM
	nmol/l	47.5	35.6	59.4	Roche Vitamin D Total II e801
nmol/l	46.1	34.6	57.6	Roche Vitamin D Total III	
ACTH	pmol/l	8.76	6.57	11.0	Siemens Immulite 2000/2500
	pg/ml	39.8	29.9	49.7	
	pmol/l	5.56	4.17	6.95	Roche Cobas e402/e801
	pg/ml	25.3	19.0	31.6	
Aldosterone	pmol/l	508	381	635	Immunotech RIA
	pg/ml	183	137	229	
	pmol/l	261	196	326	IDS iSYS
	pg/ml	94.2	70.7	118	
	pmol/l	325	244	406	Diasorin Liaison
	pg/ml	117	88.0	146	
pmol/l	342	257	428	Diasorin Liaison XL	
pg/ml	123	92.7	153		
Alphafoetoprotein	KIU/l = IU/ml	47.8	38.2	57.4	Abbott AFP-EIA
	ng/ml	57.8	46.2	69.4	
	KIU/l = IU/ml	44.6	35.7	53.5	Abbott Architect
	ng/ml	54.0	43.2	64.8	
	KIU/l = IU/ml	46.9	37.5	56.3	BioMerieux Vidas
	ng/ml	56.7	45.4	68.0	
	KIU/l = IU/ml	51.6	41.3	61.9	Siemens Centaur XP/XPT/Classic
	ng/ml	62.4	50.0	74.8	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	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	51.1	40.9	61.3	Siemens Immulite 1000
	ng/ml	61.8	49.5	74.1	
	KIU/l = IU/ml	42.5	34.0	51.0	Beckman Dxl800
	ng/ml	51.4	41.1	61.7	
	KIU/l = IU/ml	49.4	39.5	59.3	Roche Elecsys
	ng/ml	59.8	47.8	71.8	
	KIU/l = IU/ml	52.1	41.7	62.5	Diasorin Liaison
	ng/ml	63.0	50.5	75.5	
	KIU/l = IU/ml	45.1	36.1	54.1	Beckman Access
	ng/ml	54.6	43.7	65.5	
	KIU/l = IU/ml	44.4	35.5	53.3	Tosoh Series
	ng/ml	53.7	43.0	64.4	
	KIU/l = IU/ml	45.1	36.1	54.1	Vitros ECi
	ng/ml	46.9	37.5	56.3	
	KIU/l = IU/ml	50.4	40.3	60.5	Roche Cobas e601/602
	ng/ml	61.0	48.8	73.2	
	KIU/l = IU/ml	50.2	40.2	60.2	Roche Cobas 4000/E411
	ng/ml	60.7	48.6	72.8	
	KIU/l = IU/ml	48.3	38.6	58.0	Fujirebio Lumipulse G Series
	ng/ml	58.4	46.7	70.1	
	KIU/l = IU/ml	47.7	38.2	57.2	Siemens Dimension
	ng/ml	57.7	46.2	69.2	
	KIU/l = IU/ml	52.5	42.0	63.0	Siemens Centaur CP
	ng/ml	63.5	50.8	76.2	
	KIU/l = IU/ml	47.8	38.2	57.4	Immunotech IRMA
	ng/ml	57.8	46.2	69.4	
KIU/l = IU/ml	48.3	38.6	58.0	Sysmex HISCL Series	
ng/ml	58.4	46.7	70.1		
KIU/l = IU/ml	46.2	37.0	55.4	Mindray CL Series	
ng/ml	55.9	44.8	67.0		
KIU/l = IU/ml	50.2	40.2	60.2	Diasorin Liaison XL	
ng/ml	60.7	48.6	72.8		
KIU/l = IU/ml	51.0	40.8	61.2	Siemens Atellica IM	
ng/ml	61.7	49.4	74.0		
KIU/l = IU/ml	44.6	35.7	53.5	Abbott Alinity i	
ng/ml	54.0	43.2	64.8		
KIU/l = IU/ml	48.0	38.4	57.6	Roche Cobas e402/e801	
ng/ml	58.1	46.5	69.7		
KIU/l = IU/ml	42.0	33.6	50.4	Tosoh AIA-CL Series	
ng/ml	50.8	40.7	60.9		
Amikacin	µmol/l	14.0	11.2	16.8	EMIT
	µg/ml	8.20	6.56	9.84	
	µmol/l	14.6	11.7	17.5	Roche Cobas 6000/8000
	µg/ml	8.55	6.85	10.3	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Amikacin	µmol/l	15.7	12.6	18.8	Thermo Scientific QMS Amikacin
	µg/ml	9.19	7.38	11.0	
	µmol/l	15.6	12.5	18.7	Abbott Alinity
	µg/ml	9.14	7.32	11.0	
Androstenedione	µmol/l	15.2	12.2	18.2	Gravimetric
	µg/ml	8.90	7.14	10.7	
	nmol/l	5.62	4.22	7.03	Beckman Coulter RIA
	ng/ml	1.61	1.21	2.01	
	nmol/l	14.2	10.7	17.8	Siemens Immulite 2000
	ng/ml	4.08	3.07	5.09	
Beta-2-microglobulin	nmol/l	10.6	7.95	13.3	Siemens Immulite 1000
	ng/ml	3.04	2.28	3.80	
	nmol/l	9.46	7.10	11.8	DRG ELISA
	ng/ml	2.72	2.04	3.40	
	nmol/l	7.15	5.36	8.94	Diasorin Liaison XL
	ng/ml	2.05	1.54	2.56	
C-Peptide	µg/ml = mg/l	2.85	2.28	3.42	Abbott Architect
	µg/ml = mg/l	3.18	2.54	3.82	BioMerieux Vidas
	µg/ml = mg/l	2.79	2.23	3.35	Behring Nephelometer
	µg/ml = mg/l	2.62	2.10	3.14	Siemens Immulite 2000/2500
	µg/ml = mg/l	2.75	2.20	3.30	Siemens Immulite 1000
	µg/ml = mg/l	3.09	2.47	3.71	Tosoh Series
	µg/ml = mg/l	2.89	2.31	3.47	Roche Cobas 6000/8000
	µg/ml = mg/l	2.80	2.24	3.36	Diasorin Liaison XL
	µg/ml = mg/l	2.78	2.22	3.34	Siemens Atellica CH
C-Peptide	µg/ml = mg/l	2.87	2.30	3.44	Abbott Alinity
	nmol/l	1.940	1.460	2.430	Siemens Immulite 2000/2500
	ng/ml	5.86	4.41	7.31	
	nmol/l	2.190	1.640	2.740	Roche Elecsys
	ng/ml	6.61	4.95	8.27	
	nmol/l	2.040	1.530	2.550	Roche Cobas e601/602
	ng/ml	6.16	4.62	7.70	
	nmol/l	1.960	1.470	2.450	Siemens Immulite 1000
	ng/ml	5.92	4.44	7.40	
	nmol/l	2.230	1.670	2.790	Diasorin Liaison
	ng/ml	6.73	5.04	8.42	
	nmol/l	2.060	1.550	2.580	Roche Cobas 4000/E411
	ng/ml	6.22	4.68	7.76	
	nmol/l	1.910	1.430	2.390	Abbott Architect
	ng/ml	5.77	4.32	7.22	
	nmol/l	1.400	1.050	1.750	Siemens Centaur XP/XPT/Classic
	ng/ml	4.23	3.17	5.29	
	nmol/l	1.930	1.450	2.410	Tosoh Series
ng/ml	5.83	4.38	7.28		
nmol/l	2.340	1.760	2.930	Diasorin Liaison XL	
ng/ml	7.06	5.31	8.81		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods	
			low	high		
C-Peptide	nmol/l	2.020	1.520	2.530	Roche Cobas e402/e801	
	ng/ml	6.10	4.59	7.61		
	nmol/l	1.360	1.020	1.700	Siemens Atellica IM	
	ng/ml	4.11	3.08	5.14		
	nmol/l	2.090	1.570	2.610	Vitros ECi	
	ng/ml	6.31	4.74	7.88		
	nmol/l	1.230	0.923	1.540	Beckman Access	
	ng/ml	3.71	2.79	4.63		
	nmol/l	1.880	1.410	2.350	Abbott Alinity i	
	ng/ml	5.68	4.26	7.10		
	CA 15-3	U/ml	41.9	33.5	50.3	Abbott Architect
		U/ml	39.0	31.2	46.8	BioMerieux Vidas
U/ml		39.4	31.5	47.3	Siemens Centaur XP/XPT/Classic	
U/ml		41.7	33.4	50.0	Siemens Immulite 2000/2500	
U/ml		19.6	15.7	23.5	Beckman DxI800	
U/ml		42.7	34.2	51.2	Roche Elecsys	
U/ml		19.6	15.7	23.5	Beckman Access	
U/ml		42.9	34.3	51.5	Tosoh Series	
U/ml		36.0	28.8	43.2	Vitros ECi	
U/ml		44.2	35.4	53.0	Roche Cobas e601/602	
U/ml		40.0	32.0	48.0	Immunotech IRMA	
U/ml		43.3	34.6	52.0	Roche Cobas 4000/E411	
U/ml		47.1	37.7	56.5	Fujirebio Lumipulse G Series	
U/ml		39.9	31.9	47.9	Siemens Centaur CP	
U/ml		22.0	17.6	26.4	Mindray CL-2000i	
U/ml		39.7	31.8	47.6	Diasorin Liaison XL	
U/ml		41.2	33.0	49.4	Siemens Atellica IM	
U/ml		42.3	33.8	50.8	Roche Cobas e402/e801	
U/ml		41.2	33.0	49.4	Abbott Alinity i	
CA 19-9		U/ml	115	92.0	138	BioMerieux Vidas
	U/ml	167	134	200	Siemens Centaur XP/XPT/Classic	
	U/ml	147	118	176	Siemens Immulite 2000/2500	
	U/ml	158	126	190	Beckman DxI800	
	U/ml	78.3	62.6	94.0	Roche Elecsys	
	U/ml	127	102	152	Diasorin Liaison	
	U/ml	176	141	211	Beckman Access	
	U/ml	59.9	47.9	71.9	Tosoh Series	
	U/ml	151	121	181	Vitros ECi	
	U/ml	229	183	275	Abbott Architect XR/XR2/XRL	
	U/ml	76.2	61.0	91.4	Roche Cobas e601/602	
	U/ml	77.5	62.0	93.0	Roche Cobas 4000/E411	
	U/ml	162	130	194	Fujirebio Lumipulse G Series	
	U/ml	89.7	71.8	108	Izotop RIA	
	U/ml	145	116	174	Siemens Centaur CP	
	U/ml	40.3	32.2	48.4	Immunotech IRMA	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Range					
Analyte	unit	Target	low	high	methods
CA 19-9	U/ml	65.6	52.5	78.7	Mindray CL-2000i
	U/ml	130	104	156	Diasorin Liaison XL
	U/ml	166	133	199	Siemens Atellica IM
	U/ml	77.2	61.8	92.6	Roche Cobas e402/e801
	U/ml	236	189	283	Abbott Alinity XR/XR2/XRL
CA125	U/ml	112	89.6	134	Abbott Architect
	U/ml	86.1	68.9	103	BioMerieux Vidas
	U/ml	93.9	75.1	113	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	96.0	76.8	115	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	81.7	65.4	98.0	Siemens Immulite 2000/2500
	U/ml	94.4	75.5	113	Siemens Immulite 1000
	U/ml	73.6	58.9	88.3	Beckman Dxl800
	U/ml	83.1	66.5	100	Roche Elecsys
	U/ml	74.7	59.8	89.6	Beckman Access
	U/ml	156	125	187	Tosoh Series
	U/ml	82.9	66.3	99.0	Vitros ECi
	U/ml	84.3	67.4	101	Roche Cobas 4000/E411
	U/ml	84.5	67.6	101	Roche Cobas e601/602
	U/ml	46.4	37.1	55.7	Immunotech IRMA
	U/ml	74.0	59.2	88.8	Fujirebio Lumipulse G Series
	U/ml	96.1	76.9	115	Siemens Centaur CP CA125 II kit
	U/ml	144	115	173	Mindray CL-2000i
	U/ml	105	84.0	126	Diasorin Liaison XL
	U/ml	106	84.8	127	Siemens Atellica IM
	Carbamazepine	µmol/l	39.4	31.5	47.3
µg/ml		9.31	7.45	11.2	
µmol/l		41.6	33.3	49.9	Siemens Centaur XP/XPT/Classic
µg/ml		9.83	7.87	11.8	
µmol/l		36.0	28.8	43.2	Siemens Dimension
µg/ml		8.51	6.81	10.2	
µmol/l		33.3	26.6	40.0	Siemens Immulite 2000/2500
µg/ml		7.87	6.29	9.45	
µmol/l		39.4	31.5	47.3	Roche Integra
µg/ml		9.31	7.45	11.2	
µmol/l		39.9	31.9	47.9	Roche Cobas 6000/8000
µg/ml		9.43	7.54	11.3	
µmol/l		36.9	29.5	44.3	Beckman AU400/600/640/2700/5400
µg/ml		8.72	6.97	10.5	
µmol/l		32.7	26.2	39.2	Abbott Architect (PETINA)
µg/ml		7.73	6.19	9.27	
µmol/l		36.8	29.4	44.2	EMIT
µg/ml	8.70	6.95	10.5		
µmol/l	36.6	29.3	43.9	Siemens Atellica CH	
µg/ml	8.65	6.93	10.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	32.2	25.8	38.6	Abbott Alinity (PETINA)
	µg/ml	7.61	6.10	9.12	
	µmol/l	38.5	30.8	46.2	Gravimetric
	µg/ml	9.10	7.28	10.9	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	30.3	24.2	36.4	Abbott Architect
	ng/ml = µg/l	23.3	18.6	28.0	BioMerieux Vidas
	ng/ml = µg/l	24.4	19.5	29.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	34.7	27.8	41.6	Siemens Immulite 2000/2500
	ng/ml = µg/l	32.0	25.6	38.4	Siemens Immulite 1000
	ng/ml = µg/l	23.1	18.5	27.7	Beckman Dxl800
	ng/ml = µg/l	23.9	19.1	28.7	Roche Elecsys
	ng/ml = µg/l	21.3	17.0	25.6	Diasorin Liaison
	ng/ml = µg/l	24.6	19.7	29.5	Beckman Access
	ng/ml = µg/l	36.8	29.4	44.2	Tosoh Series
	ng/ml = µg/l	28.9	23.1	34.7	Vitros ECi
	ng/ml = µg/l	23.8	19.0	28.6	Roche Cobas e601/602
	ng/ml = µg/l	21.1	16.9	25.3	Immunotech IRMA
	ng/ml = µg/l	23.7	19.0	28.4	Roche Cobas 4000/E411
	ng/ml = µg/l	31.4	25.1	37.7	Fujirebio Lumipulse G Series
	ng/ml = µg/l	25.9	20.7	31.1	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	24.8	19.8	29.8	Siemens Centaur CP
	ng/ml = µg/l	19.3	15.4	23.2	Mindray CL-2000i
	ng/ml = µg/l	22.9	18.3	27.5	Diasorin Liaison XL
	ng/ml = µg/l	23.8	19.0	28.6	Siemens Atellica IM
ng/ml = µg/l	23.7	19.0	28.4	Roche Cobas e402/e801	
ng/ml = µg/l	30.3	24.2	36.4	Abbott Alinity i	
Cortisol	nmol/l	587	440	734	Abbott Architect
	µg/dl	21.1	15.8	26.4	
	nmol/l	630	473	788	BioMerieux Vidas
	µg/dl	22.7	17.0	28.4	
	nmol/l	775	581	969	Siemens Centaur XP/XPT/Classic
	µg/dl	27.9	20.9	34.9	
	nmol/l	611	458	764	Siemens Immulite 2000/2500
	µg/dl	22.0	16.5	27.5	
	nmol/l	659	494	824	Siemens Immulite 1000
	µg/dl	23.7	17.8	29.6	
	nmol/l	665	499	831	Beckman Dxl800
	µg/dl	23.9	18.0	29.8	
	nmol/l	659	494	824	Roche Elecsys
	µg/dl	23.7	17.8	29.6	
	nmol/l	728	546	910	Beckman Access
	µg/dl	26.2	19.7	32.7	
nmol/l	692	519	865	Tosoh Series	
µg/dl	24.9	18.7	31.1		
nmol/l	606	455	758	Vitros ECi	
µg/dl	21.8	16.4	27.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	670	503	838	Roche Cobas e601/602
	µg/dl	24.1	18.1	30.1	
	nmol/l	703	527	879	Roche Cobas 4000/E411
	µg/dl	25.3	19.0	31.6	
	nmol/l	769	577	961	Immunotech RIA
	µg/dl	27.7	20.8	34.6	
	nmol/l	781	586	976	Siemens Centaur CP
	µg/dl	28.1	21.1	35.1	
	nmol/l	690	518	863	Roche Cobas 4000/e411 Gen II
	µg/dl	24.8	18.6	31.0	
	nmol/l	660	495	825	Roche Cobas e601/602 Gen II
	µg/dl	23.8	17.8	29.8	
	nmol/l	693	520	866	Roche Elecsys Gen II
	µg/dl	24.9	18.7	31.1	
	nmol/l	644	483	805	Diasorin Liaison XL
	µg/dl	23.2	17.4	29.0	
nmol/l	807	605	1009	Siemens Atellica IM	
µg/dl	29.1	21.8	36.4		
nmol/l	659	494	824	Roche Cobas e402/e801	
µg/dl	23.7	17.8	29.6		
nmol/l	719	539	899	Tosoh AIA-CL Series	
µg/dl	25.9	19.4	32.4		
nmol/l	583	437	729	Abbott Alinity i	
µg/dl	21.0	15.7	26.3		
DHEA-S	µmol/l	14.3	11.4	17.2	Abbott Architect
	µmol/l	12.4	9.92	14.9	Siemens Immulite 2000/2500
	µmol/l	13.2	10.6	15.8	Siemens Immulite 1000
	µmol/l	11.9	9.52	14.3	Beckman Dxl800
	µmol/l	12.8	10.2	15.4	Beckman Access
	µmol/l	13.1	10.5	15.7	Diasorin Liaison
	µmol/l	12.3	9.84	14.8	Siemens Centaur XP/XPT/Classic
	µmol/l	17.9	14.3	21.5	Roche Cobas 4000/E411
	µmol/l	17.5	14.0	21.0	Roche Cobas e601/602
	µmol/l	11.7	9.36	14.0	Diasorin Liaison XL
	µmol/l	11.6	9.28	13.9	Siemens Atellica IM
	µmol/l	17.0	13.6	20.4	Roche Cobas e402/e801
	µmol/l	14.5	11.6	17.4	Abbott Alinity i
Digoxin	nmol/l	2.47	1.98	2.96	Abbott Architect (CMIA)
	ng/ml	1.93	1.55	2.31	
	nmol/l	2.84	2.27	3.41	BioMerieux Vidas
	ng/ml	2.22	1.77	2.67	
	nmol/l	3.26	2.61	3.91	Siemens Centaur XP/XPT/Classic
	ng/ml	2.55	2.04	3.06	
	nmol/l	2.98	2.38	3.58	Siemens Dimension
	ng/ml	2.33	1.86	2.80	
	nmol/l	3.03	2.42	3.64	Beckman Dxl800
	ng/ml	2.37	1.89	2.85	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.88	2.30	3.46	Roche Integra
	ng/ml	2.25	1.80	2.70	
	nmol/l	3.02	2.42	3.62	Roche Cobas e601/602
	ng/ml	2.36	1.89	2.83	
	nmol/l	3.17	2.54	3.80	Beckman AU400/600/640/2700/5400
	ng/ml	2.48	1.98	2.98	
	nmol/l	3.11	2.49	3.73	Roche Cobas 4000/E411
	ng/ml	2.43	1.94	2.92	
	nmol/l	2.81	2.25	3.37	Abbott Architect (PETINA)
	ng/ml	2.19	1.76	2.62	
	nmol/l	2.98	2.38	3.58	Roche Cobas e402/e801
	ng/ml	2.33	1.86	2.80	
	nmol/l	3.42	2.74	4.10	Siemens Atellica IM
	ng/ml	2.67	2.14	3.20	
	nmol/l	2.91	2.33	3.49	Siemens Atellica CH
	ng/ml	2.27	1.82	2.72	
	nmol/l	2.80	2.24	3.36	Abbott Alinity (CMIA)
	ng/ml	2.19	1.75	2.63	
nmol/l	2.88	2.30	3.46	Abbott Alinity (PETINA)	
ng/ml	2.25	1.80	2.70		
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	102	81.6	122	Abbott Architect
	ng/ml = µg/l	76.6	61.3	91.9	BioMerieux Vidas
	ng/ml = µg/l	70.1	56.1	84.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	92.8	74.2	111	Siemens Dimension
	ng/ml = µg/l	88.4	70.7	106	Siemens Immulite 2000/2500
	ng/ml = µg/l	74.3	59.4	89.2	Siemens Immulite 1000
	ng/ml = µg/l	65.4	52.3	78.5	Beckman Dxl800
	ng/ml = µg/l	104	83.2	125	Roche Elecsys/Cobas e411
	ng/ml = µg/l	90.2	72.2	108	Diasorin Liaison
	ng/ml = µg/l	102	81.6	122	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	67.7	54.2	81.2	Beckman Access
	ng/ml = µg/l	66.0	52.8	79.2	Tosoh Series
	ng/ml = µg/l	60.6	48.5	72.7	Vitros ECi
	ng/ml = µg/l	105	84.0	126	Roche Cobas 4000/c311
	ng/ml = µg/l	87.6	70.1	105	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	99.0	79.2	119	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	68.9	55.1	82.7	Siemens Centaur CP
	ng/ml = µg/l	96.5	77.2	116	Diasorin Liaison XL
	ng/ml = µg/l	105	84.0	126	Abbott Alinity i
	ng/ml = µg/l	68.2	54.6	81.8	Siemens Atellica IM
ng/ml = µg/l	101	80.8	121	Roche Cobas e402/e801	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	9.68	7.36	12.0	Abbott Architect
	ng/ml	4.27	3.25	5.29	
	nmol/l	24.1	18.3	29.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	10.6	8.07	13.1	
	nmol/l	8.00	6.08	9.92	Siemens Immulite 2000
	ng/ml	3.53	2.68	4.38	
	nmol/l	11.0	8.36	13.6	Beckman Dxl 600 / 800 - A14208
	ng/ml	4.85	3.69	6.01	
	nmol/l	11.4	8.66	14.1	Beckman Access
	ng/ml	5.03	3.82	6.24	
	nmol/l	7.16	5.44	8.88	Vitros Eci
	ng/ml	3.16	2.40	3.92	
	nmol/l	6.19	4.70	7.68	Siemens Dimension
	ng/ml	2.73	2.07	3.39	
	nmol/l	11.3	8.59	14.0	Beckman Dxl 600 / 800 - A98032
	ng/ml	4.98	3.79	6.17	
	nmol/l	11.3	8.59	14.0	Roche Folate III - 04476433
	ng/ml	4.98	3.79	6.17	
	nmol/l	11.0	8.36	13.6	Roche Elecsys Folate
	ng/ml	4.85	3.69	6.01	
nmol/l	11.1	8.44	13.8	Roche Folate III - 07559992	
ng/ml	4.90	3.72	6.08		
nmol/l	22.7	17.3	28.1	Siemens Atellica IM	
ng/ml	10.0	7.63	12.4		
nmol/l	10.4	7.90	12.9	Abbott Alinity i	
ng/ml	4.59	3.48	5.70		
nmol/l	10.9	8.28	13.5	Roche Folate 07027290 e801	
ng/ml	4.81	3.65	5.97		
Free T3	pmol/l	12.7	9.53	15.9	Abbott Architect, 2 point calibration
	ng/dl	0.826	0.619	1.03	
	pg/ml	8.27	6.20	10.3	
	pmol/l	13.3	9.98	16.6	BioMerieux Vidas
	ng/dl	0.865	0.649	1.08	
	pg/ml	8.66	6.50	10.8	
	pmol/l	13.3	9.98	16.6	Siemens Centaur XP/XPT/Classic
	ng/dl	0.865	0.649	1.08	
	pg/ml	8.66	6.50	10.8	
	pmol/l	9.72	7.29	12.2	Siemens Immulite 2000/2500
	ng/dl	0.632	0.474	0.790	
	pg/ml	6.33	4.75	7.91	
	pmol/l	10.1	7.58	12.6	Siemens Immulite 1000
	ng/dl	0.657	0.493	0.821	
	pg/ml	6.58	4.93	8.23	
	pmol/l	9.41	7.06	11.8	Beckman Dxl800
	ng/dl	0.612	0.459	0.765	
	pg/ml	6.13	4.60	7.66	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	15.8	11.9	19.8	Roche Elecsys
	ng/dl	1.03	0.774	1.29	
	pg/ml	10.3	7.75	12.9	
	pmol/l	16.4	12.3	20.5	Diasorin Liaison
	ng/dl	1.07	0.800	1.34	
	pg/ml	10.7	8.01	13.4	
	pmol/l	10.4	7.80	13.0	Beckman Access
	ng/dl	0.676	0.507	0.845	
	pg/ml	6.77	5.08	8.46	
	pmol/l	17.6	13.2	22.0	Tosoh Series
	ng/dl	1.14	0.858	1.42	
	pg/ml	11.5	8.59	14.4	
	pmol/l	31.7	23.8	39.6	Vitros ECI
	ng/dl	2.06	1.55	2.57	
	pg/ml	20.6	15.5	25.7	
	pmol/l	15.6	11.7	19.5	Roche Cobas 4000/E411
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.2	7.62	12.8	
	pmol/l	15.6	11.7	19.5	Roche Cobas e601/602
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.2	7.62	12.8	
	pmol/l	15.2	11.4	19.0	Fujirebio Lumipulse G Series
	ng/dl	0.988	0.741	1.24	
	pg/ml	9.90	7.42	12.4	
	pmol/l	13.6	10.2	17.0	Siemens Centaur CP
	ng/dl	0.884	0.663	1.11	
	pg/ml	8.85	6.64	11.1	
	pmol/l	13.7	10.3	17.1	Mindray CL-2000i
	ng/dl	0.891	0.670	1.11	
	pg/ml	8.92	6.71	11.1	
pmol/l	15.0	11.3	18.8	Sysmex HISCL Series	
ng/dl	0.975	0.735	1.22		
pg/ml	9.77	7.36	12.2		
pmol/l	17.0	12.8	21.3	Diasorin Liaison XL	
ng/dl	1.11	0.832	1.39		
pg/ml	11.1	8.33	13.9		
pmol/l	14.3	10.7	17.9	Siemens Atellica IM	
ng/dl	0.930	0.696	1.16		
pg/ml	9.31	6.97	11.7		
pmol/l	13.4	10.1	16.8	Abbott Alinity, 2 point cal	
ng/dl	0.871	0.657	1.09		
pg/ml	8.72	6.58	10.9		
pmol/l	12.7	9.53	15.9	Abbott Architect, 6 point calibration	
ng/dl	0.826	0.619	1.03		
pg/ml	8.27	6.20	10.3		
pmol/l	15.6	11.7	19.5	Roche Cobas e402/e801	
ng/dl	1.01	0.761	1.26		
pg/ml	10.2	7.62	12.8		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	14.1	10.6	17.6	Tosoh AIA-CL Series
	ng/dl	0.917	0.689	1.15	
	pg/ml	9.18	6.90	11.5	
	pmol/l	12.9	9.68	16.1	Abbott Alinity, 6 point cal
	ng/dl	0.839	0.629	1.05	
	pg/ml	8.40	6.30	10.5	
Free T4	pmol/l	22.5	16.9	28.1	Abbott Architect
	ng/dl	1.76	1.32	2.20	
	pg/ml	17.6	13.2	22.0	
	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	32.7	24.5	40.9	Siemens Immulite 2000/2500
	ng/dl	2.55	1.91	3.19	
	pg/ml	25.5	19.1	31.9	
	pmol/l	33.3	25.0	41.6	Siemens Immulite 1000
	ng/dl	2.60	1.95	3.25	
	pg/ml	26.0	19.5	32.5	
	pmol/l	25.8	19.4	32.3	Beckman DxI800
	ng/dl	2.01	1.51	2.51	
	pg/ml	20.1	15.1	25.1	
	pmol/l	30.2	22.7	37.8	Roche Elecsys
	ng/dl	2.36	1.77	2.95	
	pg/ml	23.6	17.7	29.5	
	pmol/l	33.5	25.1	41.9	Diasorin Liaison
	ng/dl	2.61	1.96	3.26	
	pg/ml	26.1	19.6	32.6	
	pmol/l	26.6	20.0	33.3	Beckman Access
	ng/dl	2.07	1.56	2.58	
	pg/ml	20.7	15.6	25.8	
pmol/l	30.0	22.5	37.5	Tosoh Series	
ng/dl	2.34	1.76	2.92		
pg/ml	23.4	17.6	29.2		
pmol/l	66.8	50.1	83.5	Vitros ECi	
ng/dl	5.21	3.91	6.51		
pg/ml	52.1	39.1	65.1		
pmol/l	29.9	22.4	37.4	Roche Cobas e601/602	
ng/dl	2.33	1.75	2.91		
pg/ml	23.3	17.5	29.1		
pmol/l	29.9	22.4	37.4	Roche Cobas 4000/E411	
ng/dl	2.33	1.75	2.91		
pg/ml	23.3	17.5	29.1		
pmol/l	32.9	24.7	41.1	Biomérieux Vidas FT4N Kit	
ng/dl	2.57	1.93	3.21		
pg/ml	25.7	19.3	32.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	21.4	16.1	26.8	Immunotech RIA
	ng/dl	1.67	1.26	2.08	
	pg/ml	16.7	12.6	20.8	
	pmol/l	25.6	19.2	32.0	Siemens Dimension Exl LOCI
	ng/dl	2.00	1.50	2.50	
	pg/ml	20.0	15.0	25.0	
	pmol/l	23.2	17.4	29.0	Siemens Centaur CP
	ng/dl	1.81	1.36	2.26	
	pg/ml	18.1	13.6	22.6	
	pmol/l	30.8	23.1	38.5	Mindray CL-2000i
	ng/dl	2.40	1.80	3.00	
	pg/ml	24.0	18.0	30.0	
	pmol/l	31.4	23.6	39.3	Sysmex HISCL Series
	ng/dl	2.45	1.84	3.06	
	pg/ml	24.5	18.4	30.6	
	pmol/l	36.7	27.5	45.9	Diasorin Liaison XL
	ng/dl	2.86	2.15	3.57	
	pg/ml	28.6	21.5	35.7	
	pmol/l	23.3	17.5	29.1	Siemens Atellica IM
	ng/dl	1.82	1.37	2.27	
	pg/ml	18.2	13.7	22.7	
pmol/l	22.2	16.7	27.8	Abbott Alinity i	
ng/dl	1.73	1.30	2.16		
pg/ml	17.3	13.0	21.6		
pmol/l	29.9	22.4	37.4	Roche Cobas e402/e801	
ng/dl	2.33	1.75	2.91		
pg/ml	23.3	17.5	29.1		
pmol/l	30.0	22.5	37.5	Tosoh AIA-CL Series	
ng/dl	2.34	1.76	2.92		
pg/ml	23.4	17.6	29.2		
FSH	mU/ml	26.3	21.0	31.6	Abbott Architect
	mU/ml	32.2	25.8	38.6	BioMerieux Vidas
	mU/ml	33.8	27.0	40.6	Siemens Centaur XP/XPT/Classic
	mU/ml	29.6	23.7	35.5	Siemens Immulite 2000/2500
	mU/ml	29.9	23.9	35.9	Siemens Immulite 1000
	mU/ml	31.7	25.4	38.0	Beckman Dxl800
	mU/ml	27.6	22.1	33.1	Roche/BM Elecsys
	mU/ml	31.4	25.1	37.7	Beckman Access
	mU/ml	32.5	26.0	39.0	Tosoh Series
	mU/ml	22.7	18.2	27.2	Vitros ECi
	mU/ml	28.9	23.1	34.7	Roche Cobas 4000/E411
	mU/ml	27.0	21.6	32.4	Roche Cobas e601/602
	mU/ml	32.8	26.2	39.4	Siemens Centaur CP
	mU/ml	35.2	28.2	42.2	Mindray CL-2000i
	mU/ml	42.9	34.3	51.5	Diasorin Liaison XL

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	34.1	27.3	40.9	Siemens Atellica IM
	mU/ml	26.5	21.2	31.8	Abbott Alinity i
	mU/ml	27.6	22.1	33.1	Roche Cobas e402/e801
Gentamicin	µmol/l	7.38	5.90	8.86	Roche Integra
	µg/ml	3.53	2.82	4.24	
	µmol/l	8.28	6.62	9.94	Siemens Centaur XP/XPT/Classic
	µg/ml	3.96	3.16	4.76	
	µmol/l	8.11	6.49	9.73	Abbott Architect (CMIA)
	µg/ml	3.88	3.10	4.66	
	µmol/l	5.64	4.51	6.77	Roche Cobas 6000/8000 Online KIMS
	µg/ml	2.70	2.16	3.24	
	µmol/l	7.02	5.62	8.42	Roche Cobas 6000/8000 CEDIA
	µg/ml	3.36	2.69	4.03	
	µmol/l	8.19	6.55	9.83	Siemens Atellica CH
	µg/ml	3.91	3.13	4.69	
	Growth Hormone (GH)	µU/ml	18.7	15.0	22.4
ng/ml		6.23	5.00	7.46	
µU/ml		17.1	13.7	20.5	Siemens Immulite 1000
ng/ml		5.69	4.56	6.82	
µU/ml		13.8	11.0	16.6	Beckman Dxl800
ng/ml		4.60	3.66	5.54	
µU/ml		14.4	11.5	17.3	Beckman Access
ng/ml		4.80	3.83	5.77	
µU/ml		18.6	14.9	22.3	Tosoh Series
ng/ml		6.19	4.96	7.42	
µU/ml		14.0	11.2	16.8	Diasorin Liaison
ng/ml		4.66	3.73	5.59	
µU/ml		16.5	13.2	19.8	Roche Cobas 4000/E411
ng/ml		5.49	4.40	6.58	
µU/ml		16.5	13.2	19.8	Roche Cobas e601/602
ng/ml		5.49	4.40	6.58	
Immunoglobulin E		µU/ml	13.7	11.0	16.4
	ng/ml	4.56	3.66	5.46	
	µU/ml	16.9	13.5	20.3	Roche Cobas e402/e801
	ng/ml	5.63	4.50	6.76	
	KIU/l = IU/ml	83.4	66.7	100	Abbott Architect
	KIU/l = IU/ml	87.3	69.8	105	BioMerieux Vidas
	KIU/l = IU/ml	96.9	77.5	116	Siemens Centaur XP/XPT/Classic
KIU/l = IU/ml	99.0	79.2	119	Siemens Immulite 2000/2500	
KIU/l = IU/ml	107	85.6	128	Siemens Immulite 1000	
KIU/l = IU/ml	104	83.2	125	Roche Elecsys	
KIU/l = IU/ml	101	80.8	121	Pharmacia Unicap	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Immunoglobulin E	KIU/l = IU/ml	89.6	71.7	108	Tosoh Series
	KIU/l = IU/ml	109	87.2	131	Roche Cobas 4000/E411
	KIU/l = IU/ml	108	86.4	130	Roche Cobas e601/602
	KIU/l = IU/ml	84.8	67.8	102	Siemens Centaur CP
	KIU/l = IU/ml	104	83.2	125	Agappe Mispa i2
	KIU/l = IU/ml	98.2	78.6	118	Siemens Atellica IM
	KIU/l = IU/ml	108	86.4	130	Roche Cobas e402/e801
	KIU/l = IU/ml	82.0	65.6	98.4	Abbott Alinity
Insulin	mU/l	18.3	13.7	22.9	Siemens Centaur XP/XPT/Classic
	µU/ml	18.3	13.7	22.9	
	mU/l	6.54	4.91	8.18	Siemens Immulite 1000
	µU/ml	6.54	4.91	8.17	
	mU/l	7.36	5.52	9.20	Siemens Immulite 2000
	µU/ml	7.36	5.52	9.20	
	mU/l	16.0	12.0	20.0	Roche Elecsys
	µU/ml	16.0	12.0	20.0	
	mU/l	15.9	11.9	19.9	Beckman Access
	µU/ml	15.9	11.9	19.9	
	mU/l	14.6	11.0	18.3	Abbott Architect
	µU/ml	14.6	11.0	18.2	
	mU/l	17.5	13.1	21.9	Tosoh Series
	µU/ml	17.5	13.1	21.9	
	mU/l	16.7	12.5	20.9	Roche Cobas 4000/E411
	µU/ml	16.7	12.5	20.9	
	mU/l	15.8	11.9	19.8	Beckman Dxl 600/800
	µU/ml	15.8	11.9	19.7	
	mU/l	18.1	13.6	22.6	Diasorin Liaison
	µU/ml	18.1	13.6	22.6	
mU/l	16.1	12.1	20.1	Roche Cobas 6000/8000	
µU/ml	16.1	12.1	20.1		
mU/l	16.0	12.0	20.0	Mindray CL Series	
µU/ml	16.0	12.0	20.0		
mU/l	19.9	14.9	24.9	Diasorin Liaison XL	
µU/ml	19.9	14.9	24.9		
mU/l	18.0	13.5	22.5	Siemens Atellica IM	
µU/ml	18.0	13.5	22.5		
mU/l	13.4	10.1	16.8	Abbott Alinity i	
µU/ml	13.4	10.1	16.7		
Luteinising Hormone (LH)	mU/ml	24.9	19.9	29.9	Abbott Architect
	mU/ml	29.6	23.7	35.5	BioMerieux Vidas
	mU/ml	32.3	25.8	38.8	Siemens Centaur XP/XPT/Classic
	mU/ml	47.6	38.1	57.1	Siemens Immulite 2000
	mU/ml	45.6	36.5	54.7	Siemens Immulite 1000
	mU/ml	26.0	20.8	31.2	Beckman Dxl800
	mU/ml	34.7	27.8	41.6	Roche Elecsys
	mU/ml	40.4	32.3	48.5	Diasorin Liaison

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Luteinising Hormone (LH)	mU/ml	26.9	21.5	32.3	Beckman Access
	mU/ml	29.5	23.6	35.4	Tosoh Series
	mU/ml	42.5	34.0	51.0	Vitros ECi
	mU/ml	35.2	28.2	42.2	Roche Cobas 4000/E411
	mU/ml	34.5	27.6	41.4	Roche Cobas e601/602
	mU/ml	32.9	26.3	39.5	Siemens Centaur CP
	mU/ml	36.5	29.2	43.8	Mindray CL-2000i
	mU/ml	39.5	31.6	47.4	Diasorin Liaison XL
	mU/ml	33.0	26.4	39.6	Siemens Atellica IM
	mU/ml	25.0	20.0	30.0	Abbott Alinity i
	mU/ml	34.8	27.8	41.8	Roche Cobas e402/e801
Oestradiol	pmol/l	755	604	906	Abbott Architect
	pg/ml	205	164	246	
	pmol/l	1455	1164	1746	BioMerieux Vidas
	pg/ml	396	317	475	
	pmol/l	1092	874	1310	Siemens Centaur XP/XPT/Classic
	pg/ml	297	238	356	
	pmol/l	1177	942	1412	Siemens Immulite 2000/2500
	pg/ml	320	256	384	
	pmol/l	1002	802	1202	Siemens Immulite 1000
	pg/ml	273	218	328	
	pmol/l	789	631	947	Beckman Dxl800
	pg/ml	215	172	258	
	pmol/l	835	668	1002	Roche Elecsys (Estradiol II)
	pg/ml	227	182	272	
	pmol/l	848	678	1018	Beckman Access
	pg/ml	231	184	278	
	pmol/l	1257	1006	1508	Vitros ECi
	pg/ml	342	274	410	
	pmol/l	837	670	1004	Roche Cobas e601/602 (Estradiol II)
	pg/ml	228	182	274	
	pmol/l	825	660	990	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	224	180	268	
	pmol/l	1106	885	1327	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	301	241	361	
	pmol/l	783	626	940	Tosoh (iE2-hsE2)
	pg/ml	213	170	256	
	pmol/l	1050	840	1260	Siemens Centaur CP
	pg/ml	286	228	344	
	pmol/l	1103	882	1324	Siemens Centaur CP Enhanced (eE2)
	pg/ml	300	240	360	
pmol/l	839	671	1007	Roche Cobas e601/602 (Estradiol III)	
pg/ml	228	183	273		
pmol/l	831	665	997	Roche Elecsys (Estradiol III)	
pg/ml	226	181	271		
pmol/l	819	655	983	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	223	178	268		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	986	789	1183	Mindray CL Series
	pg/ml	268	215	321	
	pmol/l	652	522	782	Diasorin Liaison XL
	pg/ml	177	142	212	
	pmol/l	836	669	1003	Beckman Access / Access 2 Sensitive B84493
	pg/ml	227	182	272	
	pmol/l	773	618	928	Beckman Dxl600/800 Sensitive B84493
	pg/ml	210	168	252	
	pmol/l	1159	927	1391	Siemens Atellica IM
	pg/ml	315	252	378	
pmol/l	738	590	886	Abbott Alinity i	
pg/ml	201	160	242		
pmol/l	841	673	1009	Roche Cobas e801 (Estradiol III)	
pg/ml	229	183	275		
pmol/l	912	730	1094	Tosoh AIA-CL Series	
pg/ml	248	199	297		
Paracetamol	mmol/l	0.323	0.258	0.388	Roche Cobas c501/502/503/701/702
	mg/l	48.9	39.0	58.8	
	mmol/l	0.326	0.261	0.391	Beckman AU Instruments
	mg/l	49.3	39.5	59.1	
	mmol/l	0.332	0.266	0.398	Abbott Alinity
mg/l	50.2	40.2	60.2		
mmol/l	0.348	0.280	0.420	Gravimetric	
mg/l	52.7	42.4	63.5		
Phenobarbital	µmol/l	83.8	67.0	101	Abbott Architect (CMIA)
	µg/ml	19.4	15.5	23.3	
	µmol/l	84.8	67.8	102	Siemens Immulite 2000/2500
	µg/ml	19.7	15.7	23.7	
	µmol/l	72.2	57.8	86.6	Beckman AU400/600/640/2700/5400
	µg/ml	16.8	13.4	20.2	
	µmol/l	114	91.2	137	Siemens Centaur XP/XPT/Classic
	µg/ml	26.4	21.2	31.6	
	µmol/l	74.8	59.8	89.8	Roche Integra
	µg/ml	17.4	13.9	20.9	
	µmol/l	75.0	60.0	90.0	Roche Cobas C303/501/502/503/701
	µg/ml	17.4	13.9	20.9	
µmol/l	71.9	57.5	86.3	Abbott Alinity (PETINA)	
µg/ml	16.7	13.3	20.1		
µmol/l	77.6	62.1	93.1	Gravimetric	
µg/ml	18.0	14.4	21.6		
Phenytoin	µmol/l	68.3	54.6	82.0	Abbott Architect
	µg/ml	17.2	13.8	20.6	
	µmol/l	80.2	64.2	96.2	Siemens Centaur XP/XPT/Classic
	µg/ml	20.3	16.2	24.4	
	µmol/l	77.0	61.6	92.4	Siemens Dimension
µg/ml	19.4	15.6	23.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	71.4	57.1	85.7	Roche Integra
	µg/ml	18.0	14.4	21.6	
	µmol/l	72.0	57.6	86.4	Vitros
	µg/ml	18.2	14.5	21.9	
	µmol/l	67.9	54.3	81.5	Roche Cobas 6000/8000
	µg/ml	17.1	13.7	20.5	
	µmol/l	67.7	54.2	81.2	Beckman AU Instruments
	µg/ml	17.1	13.7	20.5	
	µmol/l	68.6	54.9	82.3	EMIT
	µg/ml	17.3	13.9	20.7	
	µmol/l	75.2	60.2	90.2	Siemens Atellica CH
	µg/ml	19.0	15.2	22.8	
Primidone	µmol/l	69.7	55.8	83.6	Abbott Alinity
	µg/ml	17.6	14.1	21.1	
Phenytoin	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	28.6	22.9	34.3	Abbott Architect
	ng/ml	8.95	7.17	10.7	
	nmol/l	39.9	31.9	47.9	BioMerieux Vidas
	ng/ml	12.5	9.98	15.0	
	nmol/l	23.9	19.1	28.7	Siemens Centaur XP/XPT/Classic
	ng/ml	7.48	5.98	8.98	
	nmol/l	25.4	20.3	30.5	Siemens Immulite 2000/2500
	ng/ml	7.95	6.35	9.55	
	nmol/l	29.1	23.3	34.9	Siemens Immulite 1000
	ng/ml	9.11	7.29	10.9	
	nmol/l	30.6	24.5	36.7	Beckman Dxl Prog Cal 33555
	ng/ml	9.58	7.67	11.5	
	nmol/l	32.9	26.3	39.5	Roche Elecsys (Prog. II)
	ng/ml	10.3	8.23	12.4	
	nmol/l	30.4	24.3	36.5	Beckman Access Prog Cal 33555
	ng/ml	9.52	7.61	11.4	
	nmol/l	34.6	27.7	41.5	Tosoh Series
	ng/ml	10.8	8.67	12.9	
	nmol/l	35.9	28.7	43.1	Vitros ECi
	ng/ml	11.2	8.98	13.4	
	nmol/l	33.3	26.6	40.0	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	10.4	8.33	12.5	
	nmol/l	33.5	26.8	40.2	Roche Cobas e601/602 (Prog. II)
	ng/ml	10.5	8.39	12.6	
nmol/l	26.5	21.2	31.8	Beckman Dxl Prog DE Cal A80773	
ng/ml	8.29	6.64	9.94		
nmol/l	32.5	26.0	39.0	Beckman Access Prog DE Cal A80773	
ng/ml	10.2	8.14	12.3		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	23.4	18.7	28.1	Siemens Centaur CP
	ng/ml	7.32	5.85	8.79	
	nmol/l	40.5	32.4	48.6	Mindray CL-2000i
	ng/ml	12.7	10.1	15.3	
	nmol/l	33.1	26.5	39.7	Roche Cobas e601/602 (Prog. III)
	ng/ml	10.4	8.29	12.5	
	nmol/l	33.0	26.4	39.6	Roche Elecsys (Prog. III)
	ng/ml	10.3	8.26	12.3	
	nmol/l	32.9	26.3	39.5	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	10.3	8.23	12.4	
	nmol/l	27.5	22.0	33.0	Diasorin Liaison XL
	ng/ml	8.61	6.89	10.3	
	nmol/l	26.8	21.4	32.2	Abbott Alinity i
	ng/ml	8.39	6.70	10.1	
Prolactin	nmol/l	24.8	19.8	29.8	Siemens Atellica IM
	ng/ml	7.76	6.20	9.32	
	nmol/l	32.9	26.3	39.5	Roche Cobas e801 (Prog. III)
	ng/ml	10.3	8.23	12.4	
	µU/ml	588	470	706	Abbott Architect
	µU/ml	649	519	779	BioMerieux Vidas
	µU/ml	487	390	584	Siemens Centaur XP/XPT/Classic
	µU/ml	495	396	594	Siemens Immulite 2000/2500
	µU/ml	529	423	635	Siemens Immulite 1000
	µU/ml	505	404	606	Beckman Dxl800
	µU/ml	713	570	856	Roche Elecsys
	µU/ml	618	494	742	Diasorin Liaison
	µU/ml	533	426	640	Beckman Access
	µU/ml	573	458	688	Tosoh Series
	µU/ml	502	402	602	Vitros Eci
	µU/ml	709	567	851	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	627	502	752	Immunotech IRMA
	µU/ml	725	580	870	Roche Cobas 4000/E411
	µU/ml	703	562	844	Roche Cobas e601/602
	µU/ml	477	382	572	Siemens Centaur CP
µU/ml	653	522	784	Mindray CL-2000i	
µU/ml	663	530	796	Diasorin Liaison XL	
µU/ml	455	364	546	Siemens Atellica IM	
µU/ml	610	488	732	Abbott Alinity i	
µU/ml	690	552	828	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	10.9	8.18	13.6	Abbott Architect
	ng/ml = µg/l	13.0	9.75	16.3	BioMerieux Vidas
	ng/ml = µg/l	9.42	7.07	11.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	8.84	6.63	11.1	Siemens Immulite 2000/2500
	ng/ml = µg/l	11.8	8.85	14.8	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	9.01	6.76	11.3	Roche Elecsys

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	9.33	7.00	11.7	Diasorin Liaison
	ng/ml = µg/l	12.2	9.15	15.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	8.92	6.69	11.2	Tosoh Series
	ng/ml = µg/l	9.05	6.79	11.3	Roche Cobas 4000/E411
	ng/ml = µg/l	9.21	6.91	11.5	Roche Cobas e601/602
	ng/ml = µg/l	8.38	6.29	10.5	Siemens Dimension Vista
	ng/ml = µg/l	10.7	8.03	13.4	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.0	9.00	15.0	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.39	6.29	10.5	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	7.54	5.66	9.43	Fujirebio Lumipulse G Series
	ng/ml = µg/l	9.18	6.89	11.5	Diasorin Liaison XL
	ng/ml = µg/l	9.67	7.25	12.1	Siemens Atellica IM
	ng/ml = µg/l	11.1	8.33	13.9	Abbott Alinity i
	ng/ml = µg/l	8.84	6.63	11.1	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	9.01	6.76	11.3	Abbott Architect
	ng/ml = µg/l	10.9	8.18	13.6	BioMerieux Vidas
	ng/ml = µg/l	10.7	8.03	13.4	bioMerieux VIDAS TPSA
	ng/ml = µg/l	11.5	8.63	14.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.87	7.40	12.3	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	10.8	8.10	13.5	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	12.4	9.30	15.5	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	10.3	7.73	12.9	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.2	9.15	15.3	Roche Elecsys
	ng/ml = µg/l	10.7	8.03	13.4	Diasorin Liaison
	ng/ml = µg/l	12.7	9.53	15.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	13.0	9.75	16.3	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.41	6.31	10.5	Tosoh Series
	ng/ml = µg/l	11.9	8.93	14.9	Vitros ECi
	ng/ml = µg/l	9.04	6.78	11.3	Immunotech IRMA
	ng/ml = µg/l	12.2	9.15	15.3	Roche Cobas 4000/E411
	ng/ml = µg/l	12.2	9.15	15.3	Roche Cobas e601/602
	ng/ml = µg/l	8.31	6.23	10.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	12.1	9.08	15.1	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	10.7	8.03	13.4	Siemens Centaur CP
ng/ml = µg/l	11.3	8.48	14.1	Diasorin Liaison XL	
ng/ml = µg/l	11.9	8.93	14.9	Siemens Atellica IM	
ng/ml = µg/l	9.21	6.91	11.5	Abbott Alinity i	
ng/ml = µg/l	11.9	8.93	14.9	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	1.19	0.952	1.43	Abbott Architect
	mg/dl	16.4	13.1	19.7	
	mmol/l	1.21	0.968	1.45	Roche Cobas c501/502/503
	mg/dl	16.7	13.4	20.0	
	mmol/l	1.18	0.944	1.42	EMIT
	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	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
SHBG	nmol/l	35.8	28.6	43.0	Siemens Immulite 2000/2500
	nmol/l	38.0	30.4	45.6	Abbott Architect
	nmol/l	35.3	28.2	42.4	Beckman Dxl800
	nmol/l	36.0	28.8	43.2	Siemens Atellica IM
	nmol/l	34.1	27.3	40.9	Roche analysers - 413417/15
	nmol/l	32.6	26.1	39.1	Roche Cobas e801 - 413429
	nmol/l	36.6	29.3	43.9	Abbott Alinity i
T Uptake	%U	38.6	31.7	45.5	Siemens Immulite 2000
Testosterone	nmol/l	13.8	11.0	16.6	Abbott Architect
	ng/ml	3.97	3.17	4.77	
	ng/dl	397	317	477	
	nmol/l	12.4	9.92	14.9	BioMerieux Vidas
	ng/ml	3.57	2.86	4.28	
	ng/dl	357	286	428	
	nmol/l	14.1	11.3	16.9	Siemens Centaur XP/XPT/Classic
	ng/ml	4.06	3.25	4.87	
	ng/dl	406	325	487	
	nmol/l	16.0	12.8	19.2	Siemens Immulite 2000/2500
	ng/ml	4.61	3.69	5.53	
	ng/dl	461	369	553	
	nmol/l	15.1	12.1	18.1	Siemens Immulite 1000
	ng/ml	4.35	3.48	5.22	
	ng/dl	435	348	522	
	nmol/l	13.0	10.4	15.6	Beckman Dxl800
	ng/ml	3.74	3.00	4.48	
	ng/dl	374	300	448	
	nmol/l	13.9	11.1	16.7	Beckman Access
	ng/ml	4.00	3.20	4.80	
	ng/dl	400	320	480	
	nmol/l	17.7	14.2	21.2	Tosoh Series
	ng/ml	5.10	4.09	6.11	
	ng/dl	510	409	611	
nmol/l	18.1	14.5	21.7	Vitros ECI	
ng/ml	5.21	4.18	6.24		
ng/dl	521	418	624		
nmol/l	14.7	11.8	17.6	Roche Cobas e601/602 Test II	
ng/ml	4.23	3.40	5.06		
ng/dl	423	340	506		
nmol/l	14.7	11.8	17.6	Roche Elecsys Test II	
ng/ml	4.23	3.40	5.06		
ng/dl	423	340	506		
nmol/l	14.4	11.5	17.3	Roche Cobas 4000/e411 Test II	
ng/ml	4.15	3.31	4.99		
ng/dl	415	331	499		
nmol/l	13.7	11.0	16.4	Abbott Architect 2nd Generation	
ng/ml	3.95	3.17	4.73		
ng/dl	395	317	473		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	12.5	10.0	15.0	BioMerieux Vidas Testosterone II
	ng/ml	3.60	2.88	4.32	
	ng/dl	360	288	432	
	nmol/l	20.1	16.1	24.1	Mindray CL-2000i
	ng/ml	5.79	4.64	6.94	
	ng/dl	579	464	694	
	nmol/l	14.5	11.6	17.4	Siemens Centaur TST II
	ng/ml	4.18	3.34	5.02	
	ng/dl	418	334	502	
	nmol/l	14.8	11.8	17.8	Siemens Atellica IM
	ng/ml	4.26	3.40	5.12	
	ng/dl	426	340	512	
	nmol/l	14.4	11.5	17.3	Roche Cobas e801 Test II
	ng/ml	4.15	3.31	4.99	
ng/dl	415	331	499		
nmol/l	13.5	10.8	16.2	Abbott Alinity i	
ng/ml	3.89	3.11	4.67		
ng/dl	389	311	467		
Theophylline	µmol/l	84.3	67.4	101	Roche Integra
	µg/ml	15.2	12.1	18.3	
	µmol/l	80.5	64.4	96.6	Roche Cobas 6000/8000
	µg/ml	14.5	11.6	17.4	
	µmol/l	85.7	68.6	103	Beckman AU400/600/640/2700/5400
	µg/ml	15.4	12.4	18.4	
	µmol/l	80.7	64.6	96.8	Abbott Alinity Enzyme-Immu
	µg/ml	14.5	11.6	17.4	
Thyroglobulin	µmol/l	83.8	67.0	101	Gravimetric
	µg/ml	15.1	12.1	18.2	
	ng/ml	13.8	10.4	17.3	Siemens Immulite 1000
	ng/ml	13.8	10.4	17.3	Siemens Immulite 2000
	ng/ml	33.7	25.3	42.1	Roche Elecsys
	ng/ml	27.8	20.9	34.8	Beckman Dxl800
	ng/ml	34.1	25.6	42.6	Roche Cobas 4000/E411
	ng/ml	34.3	25.7	42.9	Roche Cobas e601/602
	ng/ml	28.4	21.3	35.5	Beckman Access
	ng/ml	34.0	25.5	42.5	Abbott Architect 2000i
	ng/ml	31.8	23.9	39.8	Tosoh Series
	ng/ml	33.7	25.3	42.1	Roche Cobas e601/602 Tg II
	ng/ml	34.0	25.5	42.5	Roche Elecsys TGII
	ng/ml	34.6	26.0	43.3	Roche Cobas 4000/E411 TGII
	ng/ml	31.2	23.4	39.0	Diasorin Liaison XL
	ng/ml	33.1	24.8	41.4	Roche Cobas e801 Tg II
ng/ml	32.9	24.7	41.1	DiaSorin Liaison XL TG II Gen	
ng/ml	34.2	25.7	42.8	Abbott Alinity i	
Thyroid Stimulating	µU/ml = mIU/l	1.88	1.50	2.26	Abbott Architect

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.25	1.80	2.70	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.09	1.67	2.51	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.36	1.89	2.83	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	2.23	1.78	2.68	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.30	1.84	2.76	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.17	1.74	2.60	Siemens Immulite 1000
	µU/ml = mIU/l	2.19	1.75	2.63	Beckman Dxl800
	µU/ml = mIU/l	2.52	2.02	3.02	Roche Elecsys
	µU/ml = mIU/l	3.04	2.43	3.65	Diasorin Liaison
	µU/ml = mIU/l	2.15	1.72	2.58	Beckman Access Fast TSH
	µU/ml = mIU/l	2.16	1.73	2.59	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	3.14	2.51	3.77	Tosoh Series
	µU/ml = mIU/l	2.40	1.92	2.88	Vitros ECi
	µU/ml = mIU/l	2.30	1.84	2.76	Immunotech IRMA
	µU/ml = mIU/l	2.56	2.05	3.07	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.54	2.03	3.05	Roche Cobas e601/602
	µU/ml = mIU/l	2.15	1.72	2.58	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.00	1.60	2.40	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.29	1.83	2.75	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.19	1.75	2.63	Siemens Centaur CP
	µU/ml = mIU/l	2.13	1.70	2.56	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	2.91	2.33	3.49	Mindray CL-2000i
	µU/ml = mIU/l	2.16	1.73	2.59	Beckman Dxl 600/800 Access (3rd IS)
µU/ml = mIU/l	3.08	2.46	3.70	Diasorin Liaison XL	
µU/ml = mIU/l	2.31	1.85	2.77	Siemens Atellica IM	
µU/ml = mIU/l	1.92	1.54	2.30	Abbott Alinity i	
µU/ml = mIU/l	2.40	1.92	2.88	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	17.2	13.8	20.6	Abbott Architect
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	33.8	27.0	40.6	BioMerieux Vidas
	IU/ml	0.034	0.027	0.041	
	mU/ml=IU/l	17.0	13.6	20.4	Siemens Centaur XP/XPT/Classic
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	44.4	35.5	53.3	Siemens Dimension
	IU/ml	0.044	0.036	0.052	
	mU/ml=IU/l	72.6	58.1	87.1	Siemens Immulite 2000
	IU/ml	0.073	0.058	0.088	
	mU/ml=IU/l	58.4	46.7	70.1	Siemens Immulite 1000
	IU/ml	0.058	0.047	0.069	
	mU/ml=IU/l	21.0	16.8	25.2	Beckman Dxl800
	IU/ml	0.021	0.017	0.025	
	mU/ml=IU/l	18.0	14.4	21.6	Diasorin Liaison
	IU/ml	0.018	0.014	0.022	
mU/ml=IU/l	25.9	20.7	31.1	Roche Cobas Core EIA	
IU/ml	0.026	0.021	0.031		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	19.9	15.9	23.9	Beckman Access
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	40.0	32.0	48.0	Tosoh Series
	IU/ml	0.040	0.032	0.048	
	mU/ml=IU/l	39.6	31.7	47.5	Vitros ECi
	IU/ml	0.040	0.032	0.048	
	mU/ml=IU/l	6.10	4.88	7.32	Roche hCG STAT (Intact)
	IU/ml	0.006	0.005	0.007	
	mU/ml=IU/l	26.0	20.8	31.2	Roche hCG+Beta
	IU/ml	0.026	0.021	0.031	
	mU/ml=IU/l	19.5	15.6	23.4	Beckman Access Total BhCG (5th IS)
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	20.7	16.6	24.8	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.021	0.017	0.025	
	mU/ml=IU/l	16.9	13.5	20.3	Siemens Centaur CP
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	14.3	11.4	17.2	Mindray CL Series
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	17.9	14.3	21.5	Diasorin Liaison XL
	IU/ml	0.018	0.014	0.022	
mU/ml=IU/l	18.6	14.9	22.3	Siemens Atellica IM	
IU/ml	0.019	0.015	0.023		
mU/ml=IU/l	17.8	14.2	21.4	Abbott Alinity i	
IU/ml	0.018	0.014	0.022		
mU/ml=IU/l	26.2	21.0	31.4	Roche hCG+Beta e801	
IU/ml	0.026	0.021	0.031		
mU/ml=IU/l	51.9	41.5	62.3	Tosoh AIA-CL Series	
IU/ml	0.052	0.042	0.062		
Total T3	nmol/l	3.40	2.55	4.25	Abbott Architect
	ng/ml	2.21	1.66	2.76	
	ng/dl	221	166	276	
	nmol/l	3.82	2.87	4.78	BioMerieux Vidas
	ng/ml	2.49	1.87	3.11	
	ng/dl	249	187	311	
	nmol/l	4.21	3.16	5.26	Siemens Centaur XP/XPT/Classic
	ng/ml	2.74	2.06	3.42	
	ng/dl	274	206	342	
	nmol/l	3.59	2.69	4.49	Siemens Immulite 2000/2500
	ng/ml	2.34	1.75	2.93	
	ng/dl	234	175	293	
	nmol/l	3.38	2.54	4.23	Siemens Immulite 1000
	ng/ml	2.20	1.65	2.75	
	ng/dl	220	165	275	
	nmol/l	3.59	2.69	4.49	Beckman Dxl800
ng/ml	2.34	1.75	2.93		
ng/dl	234	175	293		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	4.18	3.14	5.23	Roche Elecsys
	ng/ml	2.72	2.04	3.40	
	ng/dl	272	204	340	
	nmol/l	3.73	2.80	4.66	Beckman Access
	ng/ml	2.43	1.82	3.04	
	ng/dl	243	182	304	
	nmol/l	3.62	2.72	4.53	Tosoh Series
	ng/ml	2.36	1.77	2.95	
	ng/dl	236	177	295	
	nmol/l	4.32	3.24	5.40	Vitros ECI
	ng/ml	2.81	2.11	3.51	
	ng/dl	281	211	351	
	nmol/l	4.17	3.13	5.21	Roche Cobas 4000/E411
	ng/ml	2.71	2.04	3.38	
	ng/dl	271	204	338	
	nmol/l	3.09	2.32	3.86	Immunotech RIA
	ng/ml	2.01	1.51	2.51	
	ng/dl	201	151	251	
	nmol/l	4.04	3.03	5.05	Roche Cobas e601/602
	ng/ml	2.63	1.97	3.29	
	ng/dl	263	197	329	
	nmol/l	4.25	3.19	5.31	Siemens Centaur CP
	ng/ml	2.77	2.08	3.46	
	ng/dl	277	208	346	
nmol/l	3.59	2.69	4.49	Mindray CL Series	
ng/ml	2.34	1.75	2.93		
ng/dl	234	175	293		
nmol/l	2.84	2.13	3.55	Diasorin Liaison XL	
ng/ml	1.85	1.39	2.31		
ng/dl	185	139	231		
nmol/l	3.46	2.60	4.33	Abbott Alinity i	
ng/ml	2.25	1.69	2.81		
ng/dl	225	169	281		
nmol/l	4.37	3.28	5.46	Siemens Atellica IM	
ng/ml	2.84	2.14	3.54		
ng/dl	284	214	354		
nmol/l	4.27	3.20	5.34	Roche Cobas e402/e801	
ng/ml	2.78	2.08	3.48		
ng/dl	278	208	348		
Total T4	nmol/l	113	84.8	141	Abbott Architect
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	123	92.3	154	BioMerieux Vidas
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	131	98.3	164	Siemens Centaur XP/XPT/Classic
	µg/dl	10.2	7.67	12.7	
	ng/ml	102	76.7	127	
	nmol/l	113	84.8	141	Siemens Immulite 2000/2500
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	118	88.5	148	Beckman Dxl800
	µg/dl	9.20	6.90	11.5	
	ng/ml	92.0	69.0	115	
	nmol/l	112	84.0	140	Roche Elecsys
	µg/dl	8.74	6.55	10.9	
	ng/ml	87.4	65.5	109	
	nmol/l	126	94.5	158	Beckman Access
	µg/dl	9.83	7.37	12.3	
	ng/ml	98.3	73.7	123	
	nmol/l	106	79.5	133	Tosoh Series
	µg/dl	8.27	6.20	10.3	
	ng/ml	82.7	62.0	103	
	nmol/l	113	84.8	141	Vitros ECi
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	113	84.8	141	Roche Cobas 4000/E411
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	110	82.5	138	Roche Cobas e601/602
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
	nmol/l	91.3	68.5	114	Immunotech IRMA
	µg/dl	7.12	5.34	8.90	
	ng/ml	71.2	53.4	89.0	
nmol/l	125	93.8	156	Siemens Centaur CP	
µg/dl	9.75	7.32	12.2		
ng/ml	97.5	73.2	122		
nmol/l	137	103	171	Mindray CL Series	
µg/dl	10.7	8.03	13.4		
ng/ml	107	80.3	134		
nmol/l	100	75.0	125	Diasorin Liaison XL	
µg/dl	7.80	5.85	9.75		
ng/ml	78.0	58.5	97.5		
nmol/l	113	84.8	141	Abbott Alinity i	
µg/dl	8.81	6.61	11.0		
ng/ml	88.1	66.1	110		
nmol/l	127	95.3	159	Siemens Atellica IM	
µg/dl	9.91	7.43	12.4		
ng/ml	99.1	74.3	124		
nmol/l	107	80.3	134	Roche Cobas e402/e801	
µg/dl	8.35	6.26	10.4		
ng/ml	83.5	62.6	104		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	524	419	629	Abbott Architect (CMIA)
	µg/ml	75.6	60.5	90.7	
	µmol/l	558	446	670	Siemens Centaur XP/XPT/Classic
	µg/ml	80.5	64.4	96.6	
	µmol/l	550	440	660	Siemens Dimension
	µg/ml	79.4	63.5	95.3	
	µmol/l	552	442	662	Siemens Immulite 2000/2500
	µg/ml	79.7	63.8	95.6	
	µmol/l	529	423	635	Roche Integra
	µg/ml	76.3	61.0	91.6	
	µmol/l	545	436	654	Vitros
	µg/ml	78.6	62.9	94.3	
	µmol/l	541	433	649	Roche Cobas 6000/8000
	µg/ml	78.1	62.5	93.7	
	µmol/l	567	454	680	Beckman AU400/600/640/2700/5400
	µg/ml	81.8	65.5	98.1	
	µmol/l	524	419	629	Abbott Architect (PETINA)
	µg/ml	75.6	60.5	90.7	
	µmol/l	593	474	712	EMIT
	µg/ml	85.6	68.4	103	
µmol/l	546	437	655	Siemens Atellica CH	
µg/ml	78.8	63.1	94.5		
µmol/l	536	429	643	Abbott Alinity (CMIA)	
µg/ml	77.3	61.9	92.7		
µmol/l	525	420	630	Abbott Alinity (PETINA)	
µg/ml	75.8	60.6	91.0		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	7.00	5.60	8.40	Roche Integra
	µg/ml	10.4	8.32	12.5	
	µmol/l	6.60	5.28	7.92	Ortho Vitros Microslide Systems
	µg/ml	9.81	7.84	11.8	
	µmol/l	8.10	6.48	9.72	Abbott Architect (CMIA)
	µg/ml	12.0	9.63	14.4	
	µmol/l	6.08	4.86	7.30	Siemens Centaur XP/XPT/Classic
	µg/ml	9.03	7.22	10.8	
	µmol/l	7.51	6.01	9.01	Siemens Dimension
	µg/ml	11.2	8.93	13.5	
	µmol/l	7.26	5.81	8.71	Roche Cobas 6000/8000
	µg/ml	10.8	8.63	13.0	
µmol/l	5.81	4.65	6.97	Thermo Scientific QMS Vancomycin	
µg/ml	8.63	6.91	10.4		
µmol/l	7.53	6.02	9.04	Abbott Architect (PETINA)	
µg/ml	11.2	8.94	13.5		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2228EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	7.35	5.88	8.82	Siemens Atellica CH
	µg/ml	10.9	8.74	13.1	
	µmol/l	7.73	6.18	9.28	Abbott Alinity (CMIA)
	µg/ml	11.5	9.18	13.8	
	µmol/l	7.32	5.86	8.78	Abbott Alinity (PETINA)
	µg/ml	10.9	8.71	13.1	
Vitamin B12	µmol/l	7.10	5.68	8.52	Gravimetric
	µg/ml	10.5	8.44	12.7	
	pmol/l	358	286	430	Abbott Architect
	pg/ml	485	388	582	
	pmol/l	354	283	425	Siemens Centaur XP/XPT/Classic
	pg/ml	480	383	577	
	pmol/l	371	297	445	Siemens Immulite 2000
	pg/ml	503	402	604	
	pmol/l	278	222	334	Beckman Dxl800
	pg/ml	377	301	453	
	pmol/l	410	328	492	Roche Elecsys
	pg/ml	556	444	668	
	pmol/l	304	243	365	Beckman Access
	pg/ml	412	329	495	
	pmol/l	492	394	590	Tosoh Series
	pg/ml	667	534	800	
	pmol/l	382	306	458	Vitros ECi
	pg/ml	518	415	621	
	pmol/l	361	289	433	Siemens Dimension
	pg/ml	489	392	586	
pmol/l	413	330	496	Siemens Centaur CP	
pg/ml	560	447	673		
pmol/l	396	317	475	Roche Cobas 4000/e411 Gen II	
pg/ml	537	430	644		
pmol/l	417	334	500	Roche Cobas e601/602 Gen II	
pg/ml	565	453	677		
pmol/l	454	363	545	Mindray CL Series	
pg/ml	615	492	738		
pmol/l	372	298	446	Siemens Atellica IM	
pg/ml	504	404	604		
pmol/l	379	303	455	Abbott Alinity i	
pg/ml	514	411	617		
pmol/l	406	325	487	Roche Cobas e801 Gen II	
pg/ml	550	440	660		