

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. 2286EC	EXPIRY: 2025-11-28	

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.

EC	REP
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IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	12.8	9.60	16.0	DRG ELISA
	ng/ml	4.24	3.18	5.30	
	nmol/l	10.9	8.18	13.6	DIAsource RIA
	ng/ml	3.61	2.71	4.51	
	nmol/l	11.2	8.40	14.0	SNIBE Maglumi Analysers
	ng/ml	3.71	2.78	4.64	
25-OH Vitamin D	nmol/l	8.08	6.06	10.1	IDS-Isys 17-OH Progesterone
	ng/ml	2.67	2.01	3.33	
	nmol/l	66.5	49.9	83.1	Diasorin Liaison
	nmol/l	84.2	63.2	105	Siemens Centaur XP/XPT/Classic
	nmol/l	55.7	41.8	69.6	Roche Vitamin D Total
	nmol/l	62.1	46.6	77.6	Abbott Architect (3L52)
	nmol/l	75.4	56.6	94.3	SNIBE Maglumi Analysers
	nmol/l	82.1	61.6	103	Vitros ECi
	nmol/l	64.4	48.3	80.5	Tosoh Series
	nmol/l	73.9	55.4	92.4	BioMerieux Vidas
	nmol/l	49.5	37.1	61.9	Beckman Dxl 600/800
	nmol/l	55.4	41.6	69.3	Beckman Access 25 OH Vitamin D Total
	nmol/l	62.2	46.7	77.8	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	76.1	57.1	95.1	Diasorin Liaison XL
	nmol/l	52.2	39.2	65.3	Roche Vitamin D Total II
	nmol/l	64.7	48.5	80.9	Abbott Alinity i
	nmol/l	83.2	62.4	104	Siemens Atellica IM
	ACTH	nmol/l	53.1	39.8	66.4
nmol/l		51.3	38.5	64.1	Roche Vitamin D Total III
pmol/l		9.12	6.84	11.4	Siemens Immulite 2000/2500
pg/ml		41.5	31.1	51.9	
pmol/l		8.50	6.38	10.6	Roche Cobas 4000/E411
pg/ml		38.6	29.0	48.2	
pmol/l		8.40	6.30	10.5	SNIBE Maglumi Analysers
pg/ml		38.2	28.6	47.8	
pmol/l		13.0	9.75	16.3	Diasorin Liaison XL
pg/ml		59.1	44.3	73.9	
Aldosterone	pmol/l	7.95	5.96	9.94	Roche Cobas e402/e801
	pg/ml	36.1	27.1	45.1	
	pmol/l	490	368	613	Immunotech RIA
	pg/ml	177	133	221	
	pmol/l	218	164	273	SNIBE Maglumi Analysers
	pg/ml	78.7	59.2	98.2	
	pmol/l	351	263	439	IDS iSYS
	pg/ml	127	94.9	159	
	pmol/l	343	257	429	Diasorin Liaison
	pg/ml	124	92.7	155	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Aldosterone	pmol/l	377	283	471	Diasorin Liaison XL
	pg/ml	136	102	170	
Alphafoetoprotein	KIU/l = IU/ml	45.7	36.6	54.8	Abbott Architect
	ng/ml	55.3	44.3	66.3	
	KIU/l = IU/ml	47.1	37.7	56.5	BioMerieux Vidas
	ng/ml	57.0	45.6	68.4	
	KIU/l = IU/ml	53.0	42.4	63.6	Siemens Centaur XP/XPT/Classic
	ng/ml	64.1	51.3	76.9	
	KIU/l = IU/ml	47.9	38.3	57.5	Siemens Immulite 2000/2500
	ng/ml	58.0	46.3	69.7	
	KIU/l = IU/ml	43.5	34.8	52.2	Beckman Dxl800
	ng/ml	52.6	42.1	63.1	
	KIU/l = IU/ml	52.0	41.6	62.4	Roche Elecsys
	ng/ml	62.9	50.3	75.5	
	KIU/l = IU/ml	45.8	36.6	55.0	Beckman Access
	ng/ml	55.4	44.3	66.5	
	KIU/l = IU/ml	46.0	36.8	55.2	Tosoh Series
	ng/ml	55.7	44.5	66.9	
	KIU/l = IU/ml	46.5	37.2	55.8	Vitros Eci
	ng/ml	48.4	38.7	58.0	
	KIU/l = IU/ml	50.9	40.7	61.1	Roche Cobas e601/602
	ng/ml	61.6	49.2	74.0	
	KIU/l = IU/ml	52.2	41.8	62.6	Roche Cobas 4000/E411
	ng/ml	63.2	50.6	75.8	
	KIU/l = IU/ml	49.3	39.4	59.2	SNIBE Maglumi Analysers
	ng/ml	59.7	47.7	71.7	
	KIU/l = IU/ml	54.5	43.6	65.4	Siemens Centaur CP
	ng/ml	65.9	52.8	79.0	
	KIU/l = IU/ml	51.2	41.0	61.4	Immunotech IRMA
	ng/ml	62.0	49.6	74.4	
KIU/l = IU/ml	48.5	38.8	58.2	Sysmex HISCL Series	
ng/ml	58.7	46.9	70.5		
KIU/l = IU/ml	46.4	37.1	55.7	Mindray CL Series	
ng/ml	56.1	44.9	67.3		
KIU/l = IU/ml	50.9	40.7	61.1	Diasorin Liaison XL	
ng/ml	61.6	49.2	74.0		
KIU/l = IU/ml	52.3	41.8	62.8	Siemens Atellica IM	
ng/ml	63.3	50.6	76.0		
KIU/l = IU/ml	45.8	36.6	55.0	Abbott Alinity i	
ng/ml	55.4	44.3	66.5		
KIU/l = IU/ml	50.1	40.1	60.1	Roche Cobas e402/e801	
ng/ml	60.6	48.5	72.7		
KIU/l = IU/ml	42.1	33.7	50.5	Tosoh AIA-CL Series	
ng/ml	50.9	40.8	61.0		
Amikacin	µmol/l	15.6	12.5	18.7	EMIT
	µg/ml	9.14	7.32	11.0	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Amikacin	µmol/l	14.7	11.8	17.6	Roche Cobas 6000/8000
	µg/ml	8.61	6.91	10.3	
	µmol/l	15.0	12.0	18.0	Thermo Scientific QMS Amikacin
	µg/ml	8.78	7.03	10.5	
	µmol/l	15.5	12.4	18.6	Abbott Alinity
	µg/ml	9.08	7.26	10.9	
Androstenedione	µmol/l	15.2	12.2	18.2	Gravimetric
	µg/ml	8.90	7.14	10.7	
	nmol/l	14.5	10.9	18.1	Siemens Immulite 2000
	ng/ml	4.16	3.13	5.19	
	nmol/l	7.00	5.25	8.75	Diasorin Liaison XL
	ng/ml	2.01	1.51	2.51	
Beta-2-microglobulin	nmol/l	5.22	3.92	6.53	Siemens Atellica IM
	ng/ml	1.50	1.13	1.87	
	µg/ml = mg/l	3.04	2.43	3.65	Abbott Architect
	µg/ml = mg/l	3.47	2.78	4.16	BioMerieux Vidas
	µg/ml = mg/l	2.99	2.39	3.59	Behring Nephelometer
	µg/ml = mg/l	2.83	2.26	3.40	Siemens Immulite 2000/2500
C-Peptide	µg/ml = mg/l	3.40	2.72	4.08	Tosoh Series
	µg/ml = mg/l	3.12	2.50	3.74	Roche Cobas 6000/8000
	µg/ml = mg/l	2.87	2.30	3.44	SNIBE Maglumi Analysers
	µg/ml = mg/l	3.08	2.46	3.70	Siemens Atellica CH
	µg/ml = mg/l	3.13	2.50	3.76	Abbott Alinity
	nmol/l	2.120	1.590	2.650	Siemens Immulite 2000/2500
	ng/ml	6.40	4.80	8.00	
	nmol/l	2.180	1.640	2.730	Roche Elecsys
	ng/ml	6.58	4.95	8.21	
	nmol/l	2.240	1.680	2.800	Roche Cobas e601/602
	ng/ml	6.76	5.07	8.45	
	nmol/l	2.360	1.770	2.950	Diasorin Liaison
	ng/ml	7.12	5.34	8.90	
	nmol/l	2.230	1.670	2.790	Roche Cobas 4000/E411
	ng/ml	6.73	5.04	8.42	
	nmol/l	2.170	1.630	2.710	Abbott Architect
	ng/ml	6.55	4.92	8.18	
	nmol/l	1.840	1.380	2.300	Siemens Centaur XP/XPT/Classic
ng/ml	5.55	4.17	6.93		
nmol/l	2.140	1.610	2.680	Tosoh Series	
ng/ml	6.46	4.86	8.06		
nmol/l	3.130	2.350	3.910	SNIBE Maglumi Analysers	
ng/ml	9.45	7.09	11.8		
nmol/l	2.210	1.660	2.760	Roche Cobas e402/e801	
ng/ml	6.67	5.01	8.33		
nmol/l	1.790	1.340	2.240	Siemens Atellica IM	
ng/ml	5.40	4.05	6.75		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods	
			low	high		
C-Peptide	nmol/l	2.330	1.750	2.910	Vitros ECI	
	ng/ml	7.03	5.28	8.78		
	nmol/l	2.300	1.730	2.880	Tosoh AIA-CL Series	
	ng/ml	6.94	5.22	8.66		
	nmol/l	1.530	1.150	1.910	Beckman Access	
	ng/ml	4.62	3.47	5.77		
	nmol/l	2.050	1.540	2.560	Abbott Alinity i	
	ng/ml	6.19	4.65	7.73		
	CA 15-3	U/ml	41.5	33.2	49.8	Abbott Architect
		U/ml	39.4	31.5	47.3	BioMerieux Vidas
U/ml		38.9	31.1	46.7	Siemens Centaur XP/XPT/Classic	
U/ml		39.5	31.6	47.4	Siemens Immulite 2000/2500	
U/ml		47.7	38.2	57.2	Siemens Immulite 1000	
U/ml		19.3	15.4	23.2	Beckman Dxl800	
U/ml		43.8	35.0	52.6	Roche Elecsys	
U/ml		19.3	15.4	23.2	Beckman Access	
U/ml		45.3	36.2	54.4	Tosoh Series	
U/ml		38.1	30.5	45.7	Vitros ECI	
U/ml		43.7	35.0	52.4	Roche Cobas e601/602	
U/ml		40.6	32.5	48.7	Immunotech IRMA	
U/ml		43.3	34.6	52.0	Roche Cobas 4000/E411	
U/ml		50.6	40.5	60.7	SNIBE Maglumi Analysers	
U/ml		36.8	29.4	44.2	Siemens Centaur CP	
U/ml		20.9	16.7	25.1	Mindray CL 8000i/6000i/2000i/1200i/1000i	
U/ml		39.5	31.6	47.4	Diasorin Liaison XL	
U/ml		40.0	32.0	48.0	Siemens Atellica IM	
U/ml		42.3	33.8	50.8	Roche Cobas e402/e801	
U/ml		40.4	32.3	48.5	Abbott Alinity i	
CA 19-9	U/ml	118	94.4	142	BioMerieux Vidas	
	U/ml	170	136	204	Siemens Centaur XP/XPT/Classic	
	U/ml	139	111	167	Siemens Immulite 2000/2500	
	U/ml	158	126	190	Beckman Dxl800	
	U/ml	79.2	63.4	95.0	Roche Elecsys	
	U/ml	172	138	206	Beckman Access	
	U/ml	64.9	51.9	77.9	Tosoh Series	
	U/ml	154	123	185	Vitros ECI	
	U/ml	224	179	269	Abbott Architect XR/XR2/XRL	
	U/ml	76.7	61.4	92.0	Roche Cobas e601/602	
	U/ml	77.6	62.1	93.1	Roche Cobas 4000/E411	
	U/ml	57.5	46.0	69.0	SNIBE Maglumi Analysers	
	U/ml	98.7	79.0	118	Izotop RIA	
	U/ml	135	108	162	Siemens Centaur CP	
	U/ml	43.8	35.0	52.6	Immunotech IRMA	
	U/ml	69.2	55.4	83.0	Mindray CL 8000i/6000i/2000i/1200i/1000i	
	U/ml	137	110	164	Diasorin Liaison XL	
	U/ml	195	156	234	Siemens Atellica IM	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	77.7	62.2	93.2	Roche Cobas e402/e801
	U/ml	234	187	281	Abbott Alinity XR/XR2/XRL
CA125	U/ml	109	87.2	131	Abbott Architect
	U/ml	87.9	70.3	105	BioMerieux Vidas
	U/ml	87.6	70.1	105	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	94.4	75.5	113	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	73.6	58.9	88.3	Siemens Immulite 2000/2500
	U/ml	86.0	68.8	103	Siemens Immulite 1000
	U/ml	70.8	56.6	85.0	Beckman Dxl800
	U/ml	87.0	69.6	104	Roche Elecsys
	U/ml	72.7	58.2	87.2	Beckman Access
	U/ml	157	126	188	Tosoh Series
	U/ml	82.3	65.8	98.8	Vitros ECi
	U/ml	86.5	69.2	104	Roche Cobas 4000/E411
	U/ml	85.0	68.0	102	Roche Cobas e601/602
	U/ml	42.9	34.3	51.5	Immunotech IRMA
	U/ml	73.0	58.4	87.6	SNIBE Maglumi Analysers
	U/ml	91.9	73.5	110	Siemens Centaur CP CA125 II kit
	U/ml	142	114	170	Mindray CL 8000i/6000i/2000i/1200i/1000i
	U/ml	108	86.4	130	Diasorin Liaison XL
	U/ml	106	84.8	127	Siemens Atellica IM
	U/ml	78.3	62.6	94.0	Roche Cobas e402/e801
U/ml	111	88.8	133	Abbott Alinity i	
Carbamazepine	µmol/l	38.2	30.6	45.8	Abbott Architect (CMIA)
	µg/ml	9.03	7.23	10.8	
	µmol/l	37.4	29.9	44.9	Siemens Centaur XP/XPT/Classic
	µg/ml	8.84	7.07	10.6	
	µmol/l	33.1	26.5	39.7	Siemens Immulite 2000/2500
	µg/ml	7.82	6.26	9.38	
	µmol/l	39.1	31.3	46.9	Roche Integra
	µg/ml	9.24	7.40	11.1	
	µmol/l	39.1	31.3	46.9	Roche Cobas 6000/8000
	µg/ml	9.24	7.40	11.1	
	µmol/l	39.4	31.5	47.3	Beckman AU400/600/640/2700/5400
	µg/ml	9.31	7.45	11.2	
	µmol/l	30.8	24.6	37.0	Abbott Architect (PETINA)
	µg/ml	7.28	5.82	8.74	
µmol/l	31.9	25.5	38.3	Abbott Alinity (PETINA)	
µg/ml	7.54	6.03	9.05		
µmol/l	38.5	30.8	46.2	Gravimetric	
µg/ml	9.10	7.28	10.9		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	29.0	23.2	34.8	Abbott Architect
	ng/ml = µg/l	26.4	21.1	31.7	BioMerieux Vidas
	ng/ml = µg/l	26.9	21.5	32.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	36.2	29.0	43.4	Siemens Immulite 2000/2500
	ng/ml = µg/l	24.6	19.7	29.5	Beckman Dxl800

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	22.7	18.2	27.2	Roche Elecsys
	ng/ml = µg/l	26.0	20.8	31.2	Beckman Access
	ng/ml = µg/l	35.9	28.7	43.1	Tosoh Series
	ng/ml = µg/l	26.7	21.4	32.0	Vitros ECi
	ng/ml = µg/l	22.2	17.8	26.6	Roche Cobas e601/602
	ng/ml = µg/l	25.4	20.3	30.5	Immunotech IRMA
	ng/ml = µg/l	22.5	18.0	27.0	Roche Cobas 4000/E411
	ng/ml = µg/l	28.3	22.6	34.0	SNIBE Maglumi Analysers
	ng/ml = µg/l	32.3	25.8	38.8	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	26.9	21.5	32.3	Siemens Centaur CP
	ng/ml = µg/l	26.2	21.0	31.4	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/ml = µg/l	26.6	21.3	31.9	Diasorin Liaison XL
	ng/ml = µg/l	26.6	21.3	31.9	Siemens Atellica IM
	ng/ml = µg/l	22.4	17.9	26.9	Roche Cobas e402/e801
ng/ml = µg/l	28.5	22.8	34.2	Abbott Alinity i	
Cortisol	nmol/l	528	396	660	Abbott Architect
	µg/dl	19.0	14.3	23.7	
	nmol/l	543	407	679	BioMerieux Vidas
	µg/dl	19.5	14.7	24.3	
	nmol/l	673	505	841	Siemens Centaur XP/XPT/Classic
	µg/dl	24.2	18.2	30.2	
	nmol/l	522	392	653	Siemens Immulite 2000/2500
	µg/dl	18.8	14.1	23.5	
	nmol/l	584	438	730	Siemens Immulite 1000
	µg/dl	21.0	15.8	26.2	
	nmol/l	578	434	723	Beckman Dxl800
	µg/dl	20.8	15.6	26.0	
	nmol/l	609	457	761	Roche Elecsys
	µg/dl	21.9	16.5	27.3	
	nmol/l	634	476	793	Beckman Access
	µg/dl	22.8	17.1	28.5	
	nmol/l	658	494	823	Tosoh Series
	µg/dl	23.7	17.8	29.6	
	nmol/l	552	414	690	Vitros ECi
	µg/dl	19.9	14.9	24.9	
nmol/l	593	445	741	Roche Cobas e601/602	
µg/dl	21.3	16.0	26.6		
nmol/l	627	470	784	Roche Cobas 4000/E411	
µg/dl	22.6	16.9	28.3		
nmol/l	679	509	849	Immunotech RIA	
µg/dl	24.4	18.3	30.5		
nmol/l	614	461	768	SNIBE Maglumi Analysers	
µg/dl	22.1	16.6	27.6		
nmol/l	668	501	835	Siemens Centaur CP	
µg/dl	24.0	18.0	30.0		
nmol/l	619	464	774	Roche Cobas 4000/e411 Gen II	
µg/dl	22.3	16.7	27.9		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	595	446	744	Roche Cobas e601/602 Gen II
	µg/dl	21.4	16.1	26.7	
	nmol/l	630	473	788	Roche Elecsys Gen II
	µg/dl	22.7	17.0	28.4	
	nmol/l	716	537	895	Siemens Atellica IM
	µg/dl	25.8	19.3	32.3	
	nmol/l	597	448	746	Roche Cobas e402/e801
	µg/dl	21.5	16.1	26.9	
DHEA-S	nmol/l	613	460	766	Tosoh AIA-CL Series
	µg/dl	22.1	16.6	27.6	
	nmol/l	528	396	660	Abbott Alinity i
	µg/dl	19.0	14.3	23.7	
	µmol/l	13.9	11.1	16.7	Abbott Alinity i
	µmol/l	13.6	10.9	16.3	Abbott Architect
	µmol/l	12.3	9.84	14.8	Siemens Immulite 2000/2500
	µmol/l	12.4	9.92	14.9	Siemens Immulite 1000
	µmol/l	11.7	9.36	14.0	Beckman DxI800
	µmol/l	12.2	9.76	14.6	Beckman Access
	µmol/l	11.4	9.12	13.7	Siemens Centaur XP/XPT/Classic
	µmol/l	16.7	13.4	20.0	Roche Cobas 4000/E411
Digoxin	µmol/l	16.1	12.9	19.3	Roche Cobas e601/602
	µmol/l	11.8	9.44	14.2	SNIBE Maglumi Analysers
	µmol/l	11.6	9.28	13.9	Siemens Atellica IM
	µmol/l	16.0	12.8	19.2	Roche Cobas e402/e801
	nmol/l	2.48	1.98	2.98	Abbott Architect (CMIA)
	ng/ml	1.94	1.55	2.33	
	nmol/l	2.80	2.24	3.36	BioMerieux Vidas
	ng/ml	2.19	1.75	2.62	
	nmol/l	3.27	2.62	3.92	Siemens Centaur XP/XPT/Classic
	ng/ml	2.55	2.05	3.06	
	nmol/l	2.94	2.35	3.53	Siemens Dimension
	ng/ml	2.30	1.84	2.76	
	nmol/l	3.04	2.43	3.65	Beckman DxI800
	ng/ml	2.37	1.90	2.85	
	nmol/l	2.99	2.39	3.59	Roche Integra
	ng/ml	2.34	1.87	2.80	
	nmol/l	2.95	2.36	3.54	Roche Cobas e601/602
	ng/ml	2.30	1.84	2.76	
	nmol/l	3.13	2.50	3.76	Beckman AU400/600/640/2700/5400
	ng/ml	2.44	1.95	2.94	
nmol/l	3.69	2.95	4.43	SNIBE Maglumi Analysers	
ng/ml	2.88	2.30	3.46		
nmol/l	2.94	2.35	3.53	Roche Cobas 4000/E411	
ng/ml	2.30	1.84	2.76		
nmol/l	2.80	2.24	3.36	Abbott Architect (PETINA)	
ng/ml	2.19	1.75	2.62		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.80	2.24	3.36	Abbott Architect (PETINA)
	ng/ml	2.19	1.75	2.62	
	nmol/l	3.00	2.40	3.60	Roche Cobas e402/e801
	ng/ml	2.34	1.87	2.81	
	nmol/l	3.48	2.78	4.18	Siemens Atellica IM
	ng/ml	2.72	2.17	3.26	
	nmol/l	2.81	2.25	3.37	Siemens Atellica CH
	ng/ml	2.19	1.76	2.63	
	nmol/l	2.80	2.24	3.36	Abbott Alinity (CMIA)
	ng/ml	2.19	1.75	2.62	
	nmol/l	2.95	2.36	3.54	Abbott Alinity (PETINA)
	ng/ml	2.30	1.84	2.76	
	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	106	84.8	127	Abbott Architect
	ng/ml = µg/l	76.1	60.9	91.3	BioMerieux Vidas
	ng/ml = µg/l	73.6	58.9	88.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	97.6	78.1	117	Siemens Dimension
	ng/ml = µg/l	89.5	71.6	107	Siemens Immulite 2000/2500
	ng/ml = µg/l	82.2	65.8	98.6	Siemens Immulite 1000
	ng/ml = µg/l	67.2	53.8	80.6	Beckman Dxl800
	ng/ml = µg/l	109	87.2	131	Roche Elecsys/Cobas e411
	ng/ml = µg/l	107	85.6	128	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	69.7	55.8	83.6	Beckman Access
	ng/ml = µg/l	68.1	54.5	81.7	Tosoh Series
	ng/ml = µg/l	65.1	52.1	78.1	Vitros ECi
	ng/ml = µg/l	105	84.0	126	Roche Cobas 4000/c311
	ng/ml = µg/l	84.5	67.6	101	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	102	81.6	122	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	107	85.6	128	SNIBE Maglumi Analysers
	ng/ml = µg/l	71.4	57.1	85.7	Siemens Centaur CP
	ng/ml = µg/l	104	83.2	125	Diasorin Liaison XL
	ng/ml = µg/l	109	87.2	131	Abbott Alinity i
	ng/ml = µg/l	69.1	55.3	82.9	Siemens Atellica IM
ng/ml = µg/l	104	83.2	125	Roche Cobas e402/e801	
Folate	nmol/l	9.66	7.34	12.0	Abbott Architect
	ng/ml	4.26	3.24	5.28	
	nmol/l	21.7	16.5	26.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	9.57	7.28	11.9	
	nmol/l	7.70	5.85	9.55	Siemens Immulite 2000
	ng/ml	3.40	2.58	4.22	
	nmol/l	11.0	8.36	13.6	Beckman Dxl 600 / 800 - A14208
	ng/ml	4.85	3.69	6.01	
	nmol/l	11.5	8.74	14.3	Beckman Access
	ng/ml	5.07	3.85	6.29	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	16.1	12.2	20.0	Tosoh Series
	ng/ml	7.10	5.38	8.82	
	nmol/l	7.01	5.33	8.69	Vitros ECI
	ng/ml	3.09	2.35	3.83	
	nmol/l	5.98	4.54	7.42	Siemens Dimension
	ng/ml	2.64	2.00	3.28	
	nmol/l	11.5	8.74	14.3	Beckman Dxl 600 / 800 - A98032
	ng/ml	5.07	3.85	6.29	
	nmol/l	11.1	8.44	13.8	Roche Folate III - 04476433
	ng/ml	4.90	3.72	6.08	
	nmol/l	11.6	8.82	14.4	Roche Elecsys Folate
	ng/ml	5.12	3.89	6.35	
	nmol/l	11.4	8.66	14.1	Roche Folate III - 07559992
	ng/ml	5.03	3.82	6.24	
	nmol/l	20.3	15.4	25.2	Siemens Atellica IM
	ng/ml	8.95	6.79	11.1	
nmol/l	10.6	8.06	13.1	Abbott Alinity i	
ng/ml	4.67	3.55	5.79		
nmol/l	11.1	8.44	13.8	Roche Folate 07027290 e801	
ng/ml	4.90	3.72	6.08		
Free T3	pmol/l	14.0	10.5	17.5	Abbott Architect, 2 point calibration
	ng/dl	0.910	0.683	1.14	
	pg/ml	9.11	6.84	11.4	
	pmol/l	13.6	10.2	17.0	BioMerieux Vidas
	ng/dl	0.884	0.663	1.11	
	pg/ml	8.85	6.64	11.1	
	pmol/l	15.0	11.3	18.8	Siemens Centaur XP/XPT/Classic
	ng/dl	0.975	0.735	1.22	
	pg/ml	9.77	7.36	12.2	
	pmol/l	11.8	8.85	14.8	Siemens Immulite 2000/2500
	ng/dl	0.767	0.575	0.959	
	pg/ml	7.68	5.76	9.60	
	pmol/l	11.4	8.55	14.3	Siemens Immulite 1000
	ng/dl	0.741	0.556	0.926	
	pg/ml	7.42	5.57	9.27	
	pmol/l	10.5	7.88	13.1	Beckman Dxl800
	ng/dl	0.683	0.512	0.854	
	pg/ml	6.84	5.13	8.55	
	pmol/l	17.3	13.0	21.6	Roche Elecsys
	ng/dl	1.12	0.845	1.40	
	pg/ml	11.3	8.46	14.1	
	pmol/l	12.0	9.00	15.0	Beckman Access
	ng/dl	0.780	0.585	0.975	
	pg/ml	7.81	5.86	9.76	
pmol/l	20.1	15.1	25.1	Tosoh Series	
ng/dl	1.31	0.982	1.64		
pg/ml	13.1	9.83	16.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	33.1	24.8	41.4	Vitros ECI
	ng/dl	2.15	1.61	2.69	
	pg/ml	21.5	16.1	26.9	
	pmol/l	17.2	12.9	21.5	Roche Cobas 4000/E411
	ng/dl	1.12	0.839	1.40	
	pg/ml	11.2	8.40	14.0	
	pmol/l	17.6	13.2	22.0	Roche Cobas e601/602
	ng/dl	1.14	0.858	1.42	
	pg/ml	11.5	8.59	14.4	
	pmol/l	17.9	13.4	22.4	SNIBE Maglumi Analysers
	ng/dl	1.16	0.871	1.45	
	pg/ml	11.7	8.72	14.7	
	pmol/l	15.4	11.6	19.3	Siemens Centaur CP
	ng/dl	1.00	0.754	1.25	
	pg/ml	10.0	7.55	12.5	
	pmol/l	14.2	10.7	17.8	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/dl	0.923	0.696	1.15	
	pg/ml	9.24	6.97	11.5	
	pmol/l	16.6	12.5	20.8	Sysmex HISCL Series
	ng/dl	1.08	0.813	1.35	
	pg/ml	10.8	8.14	13.5	
	pmol/l	18.3	13.7	22.9	Diasorin Liaison XL
	ng/dl	1.19	0.891	1.49	
	pg/ml	11.9	8.92	14.9	
pmol/l	16.0	12.0	20.0	Siemens Atellica IM	
ng/dl	1.04	0.780	1.30		
pg/ml	10.4	7.81	13.0		
pmol/l	14.0	10.5	17.5	Abbott Alinity, 2 point cal	
ng/dl	0.910	0.683	1.14		
pg/ml	9.11	6.84	11.4		
pmol/l	14.1	10.6	17.6	Abbott Architect, 6 point calibration	
ng/dl	0.917	0.689	1.15		
pg/ml	9.18	6.90	11.5		
pmol/l	17.4	13.1	21.8	Roche Cobas e402/e801	
ng/dl	1.13	0.852	1.41		
pg/ml	11.3	8.53	14.1		
pmol/l	15.9	11.9	19.9	Tosoh AIA-CL Series	
ng/dl	1.03	0.774	1.29		
pg/ml	10.4	7.75	13.1		
pmol/l	14.2	10.7	17.8	Abbott Alinity, 6 point cal	
ng/dl	0.923	0.696	1.15		
pg/ml	9.24	6.97	11.5		
Free T4	pmol/l	22.6	17.0	28.3	Abbott Architect
	ng/dl	1.76	1.33	2.19	
	pg/ml	17.6	13.3	21.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	23.1	17.3	28.9	Siemens Centaur XP/XPT/Classic
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	27.7	20.8	34.6	Siemens Dimension
	ng/dl	2.16	1.62	2.70	
	pg/ml	21.6	16.2	27.0	
	pmol/l	31.4	23.6	39.3	Siemens Immulite 2000/2500
	ng/dl	2.45	1.84	3.06	
	pg/ml	24.5	18.4	30.6	
	pmol/l	33.6	25.2	42.0	Siemens Immulite 1000
	ng/dl	2.62	1.97	3.27	
	pg/ml	26.2	19.7	32.7	
	pmol/l	25.3	19.0	31.6	Beckman Dxl800
	ng/dl	1.97	1.48	2.46	
	pg/ml	19.7	14.8	24.6	
	pmol/l	29.5	22.1	36.9	Roche Elecsys
	ng/dl	2.30	1.72	2.88	
	pg/ml	23.0	17.2	28.8	
	pmol/l	26.2	19.7	32.8	Beckman Access
	ng/dl	2.04	1.54	2.54	
	pg/ml	20.4	15.4	25.4	
	pmol/l	29.5	22.1	36.9	Tosoh Series
	ng/dl	2.30	1.72	2.88	
	pg/ml	23.0	17.2	28.8	
	pmol/l	64.2	48.2	80.3	Vitros ECI
	ng/dl	5.01	3.76	6.26	
	pg/ml	50.1	37.6	62.6	
	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	30.1	22.6	37.6	Roche Cobas 4000/E411	
ng/dl	2.35	1.76	2.94		
pg/ml	23.5	17.6	29.4		
pmol/l	34.8	26.1	43.5	SNIBE Maglumi Analysers	
ng/dl	2.71	2.04	3.38		
pg/ml	27.1	20.4	33.8		
pmol/l	33.2	24.9	41.5	Biomerieux Vidas FT4N Kit	
ng/dl	2.59	1.94	3.24		
pg/ml	25.9	19.4	32.4		
pmol/l	20.9	15.7	26.1	Immunotech RIA	
ng/dl	1.63	1.22	2.04		
pg/ml	16.3	12.2	20.4		
pmol/l	26.9	20.2	33.6	Siemens Dimension Exl LOCI	
ng/dl	2.10	1.58	2.62		
pg/ml	21.0	15.8	26.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	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	29.7	22.3	37.1	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/dl	2.32	1.74	2.90	
	pg/ml	23.2	17.4	29.0	
	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	36.1	27.1	45.1	Diasorin Liaison XL
	ng/dl	2.82	2.11	3.53	
	pg/ml	28.2	21.1	35.3	
	pmol/l	23.8	17.9	29.8	Siemens Atellica IM
	ng/dl	1.86	1.40	2.32	
	pg/ml	18.6	14.0	23.2	
	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	
FSH	pmol/l	30.6	23.0	38.3	Roche Cobas e402/e801
	ng/dl	2.39	1.79	2.99	
	pg/ml	23.9	17.9	29.9	
	pmol/l	30.1	22.6	37.6	Tosoh AIA-CL Series
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	mU/ml	28.9	23.1	34.7	Abbott Architect
	mU/ml	33.1	26.5	39.7	BioMerieux Vidas
	mU/ml	34.1	27.3	40.9	Siemens Centaur XP/XPT/Classic
	mU/ml	30.3	24.2	36.4	Siemens Immulite 2000/2500
	mU/ml	29.7	23.8	35.6	Siemens Immulite 1000
	mU/ml	34.2	27.4	41.0	Beckman Dxl800
	mU/ml	30.0	24.0	36.0	Roche/BM Elecsys
	mU/ml	33.5	26.8	40.2	Beckman Access
	mU/ml	37.6	30.1	45.1	Tosoh Series
	mU/ml	24.7	19.8	29.6	Vitros ECi
	mU/ml	31.3	25.0	37.6	Roche Cobas 4000/E411
	mU/ml	29.5	23.6	35.4	Roche Cobas e601/602
mU/ml	33.4	26.7	40.1	SNIBE Maglumi Analysers	
mU/ml	33.3	26.6	40.0	Siemens Centaur CP	
mU/ml	37.3	29.8	44.8	Mindray CL 8000i/6000i/2000i/1200i/1000i	
mU/ml	45.8	36.6	55.0	Diasorin Liaison XL	
mU/ml	34.9	27.9	41.9	Siemens Atellica IM	
mU/ml	29.1	23.3	34.9	Abbott Alinity i	
mU/ml	30.0	24.0	36.0	Roche Cobas e402/e801	
Gentamicin	µmol/l	7.16	5.73	8.59	Roche Integra
	µg/ml	3.42	2.74	4.10	
	µmol/l	7.63	6.10	9.16	Abbott Architect (CMIA)
	µg/ml	3.65	2.92	4.38	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Gentamicin	µmol/l	5.78	4.62	6.94	Roche Cobas 6000/8000 Online KIMS
	µg/ml	2.76	2.21	3.31	
	µmol/l	8.43	6.74	10.1	Abbott Alinity (PETINA)
	µg/ml	4.03	3.22	4.84	
	µmol/l	8.16	6.53	9.79	Gravimetric
Growth Hormone (GH)	µg/ml	3.90	3.12	4.68	
	µU/ml	19.4	15.5	23.3	Siemens Immulite 2000/2500
	ng/ml	6.46	5.16	7.76	
	µU/ml	16.4	13.1	19.7	Siemens Immulite 1000
	ng/ml	5.46	4.36	6.56	
	µU/ml	13.9	11.1	16.7	Beckman Dxl800
	ng/ml	4.63	3.70	5.56	
	µU/ml	14.4	11.5	17.3	Beckman Access
	ng/ml	4.80	3.83	5.77	
	µU/ml	21.2	17.0	25.4	Tosoh Series
	ng/ml	7.06	5.66	8.46	
	µU/ml	18.5	14.8	22.2	Roche Cobas 4000/E411
	ng/ml	6.16	4.93	7.39	
	µU/ml	26.9	21.5	32.3	SNIBE Maglumi Analysers
	ng/ml	8.96	7.16	10.8	
	µU/ml	18.7	15.0	22.4	Roche Cobas e601/602
	ng/ml	6.23	5.00	7.46	
µU/ml	14.7	11.8	17.6	Diasorin Liaison XL	
ng/ml	4.90	3.93	5.87		
µU/ml	19.0	15.2	22.8	Roche Cobas e402/e801	
ng/ml	6.33	5.06	7.60		
µU/ml	16.0	12.8	19.2	Tosoh AIA-CL Series	
ng/ml	5.33	4.26	6.40		
Immunoglobulin E	KIU/l = IU/ml	92.1	73.7	111	Abbott Architect
	KIU/l = IU/ml	98.1	78.5	118	BioMerieux Vidas
	KIU/l = IU/ml	105	84.0	126	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	113	90.4	136	Siemens Immulite 2000/2500
	KIU/l = IU/ml	110	88.0	132	Siemens Immulite 1000
	KIU/l = IU/ml	124	99.0	149	Roche Elecsys
	KIU/l = IU/ml	118	94.4	142	Pharmacia Unicap
	KIU/l = IU/ml	102	81.6	122	Tosoh Series
	KIU/l = IU/ml	123	98.4	148	Roche Cobas 4000/E411
	KIU/l = IU/ml	121	96.8	145	Roche Cobas e601/602
	KIU/l = IU/ml	95.3	76.2	114	SNIBE Maglumi Analysers
	KIU/l = IU/ml	119	95.2	143	Agappe Mispa i2
	KIU/l = IU/ml	109	87.2	131	Siemens Atellica IM
	KIU/l = IU/ml	124	99.0	149	Roche Cobas e402/e801
	KIU/l = IU/ml	89.0	71.2	107	Abbott Alinity
Insulin	mU/l	16.7	12.5	20.9	Siemens Centaur XP/XPT/Classic
	µU/ml	16.7	12.5	20.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	5.25	3.94	6.56	Siemens Immulite 1000
	µU/ml	5.25	3.94	6.56	
	mU/l	18.0	13.5	22.5	Roche Elecsys
	µU/ml	18.0	13.5	22.5	
	mU/l	14.2	10.7	17.8	Beckman Access
	µU/ml	14.2	10.7	17.7	
	mU/l	13.5	10.1	16.9	Abbott Architect
	µU/ml	13.5	10.1	16.9	
	mU/l	16.8	12.6	21.0	Tosoh Series
	µU/ml	16.8	12.6	21.0	
	mU/l	18.2	13.7	22.8	Roche Cobas 4000/E411
	µU/ml	18.2	13.7	22.7	
	mU/l	13.8	10.4	17.3	Beckman Dxl 600/800
	µU/ml	13.8	10.4	17.2	
	mU/l	17.6	13.2	22.0	Roche Cobas 6000/8000
	µU/ml	17.6	13.2	22.0	
	mU/l	16.8	12.6	21.0	SNIBE Maglumi Analysers
	µU/ml	16.8	12.6	21.0	
	mU/l	18.1	13.6	22.6	Mindray CL Series
	µU/ml	18.1	13.6	22.6	
mU/l	19.2	14.4	24.0	Diasorin Liaison XL	
µU/ml	19.2	14.4	24.0		
mU/l	16.5	12.4	20.6	Siemens Atellica IM	
µU/ml	16.5	12.4	20.6		
mU/l	12.5	9.38	15.6	Abbott Alinity i	
µU/ml	12.5	9.38	15.6		
mU/l	18.0	13.5	22.5	Tosoh AIA-CL Series	
µU/ml	18.0	13.5	22.5		
Luteinising Hormone (LH)	mU/ml	27.5	22.0	33.0	Abbott Architect
	mU/ml	32.1	25.7	38.5	BioMerieux Vidas
	mU/ml	32.7	26.2	39.2	Siemens Centaur XP/XPT/Classic
	mU/ml	48.8	39.0	58.6	Siemens Immulite 2000
	mU/ml	50.5	40.4	60.6	Siemens Immulite 1000
	mU/ml	28.8	23.0	34.6	Beckman Dxl800
	mU/ml	38.3	30.6	46.0	Roche Elecsys
	mU/ml	29.5	23.6	35.4	Beckman Access
	mU/ml	31.7	25.4	38.0	Tosoh Series
	mU/ml	47.8	38.2	57.4	Vitros ECi
	mU/ml	38.4	30.7	46.1	Roche Cobas 4000/E411
	mU/ml	38.2	30.6	45.8	Roche Cobas e601/602
	mU/ml	54.5	43.6	65.4	SNIBE Maglumi Analysers
	mU/ml	34.6	27.7	41.5	Siemens Centaur CP
	mU/ml	39.5	31.6	47.4	Mindray CL 8000i/6000i/2000i/1200i/1000i
	mU/ml	43.4	34.7	52.1	Diasorin Liaison XL
	mU/ml	34.7	27.8	41.6	Siemens Atellica IM
	mU/ml	27.4	21.9	32.9	Abbott Alinity i

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Luteinising Hormone (LH)	mU/ml	38.4	30.7	46.1	Roche Cobas e402/e801
Oestradiol	pmol/l	662	530	794	Abbott Architect
	pg/ml	180	144	216	
	pmol/l	1322	1058	1586	BioMerieux Vidas
	pg/ml	360	288	432	
	pmol/l	909	727	1091	Siemens Centaur XP/XPT/Classic
	pg/ml	247	198	296	
	pmol/l	1011	809	1213	Siemens Immulite 2000/2500
	pg/ml	275	220	330	
	pmol/l	940	752	1128	Siemens Immulite 1000
	pg/ml	256	205	307	
	pmol/l	635	508	762	Beckman Dxl800
	pg/ml	173	138	208	
	pmol/l	685	548	822	Roche Elecsys (Estradiol II)
	pg/ml	186	149	223	
	pmol/l	698	558	838	Beckman Access
	pg/ml	190	152	228	
	pmol/l	730	584	876	Tosoh (E2)
	pg/ml	199	159	239	
	pmol/l	1180	944	1416	Vitros ECi
	pg/ml	321	257	385	
	pmol/l	714	571	857	Roche Cobas e601/602 (Estradiol II)
	pg/ml	194	155	233	
	pmol/l	699	559	839	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	190	152	228	
	pmol/l	906	725	1087	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	246	197	295	
	pmol/l	1548	1238	1858	SNIBE Maglumi Analysers
	pg/ml	421	337	505	
	pmol/l	727	582	872	Tosoh (iE2-hsE2)
	pg/ml	198	158	238	
pmol/l	726	581	871	Roche Cobas e601/602 (Estradiol III)	
pg/ml	197	158	236		
pmol/l	702	562	842	Roche Elecsys (Estradiol III)	
pg/ml	191	153	229		
pmol/l	700	560	840	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	190	152	228		
pmol/l	869	695	1043	Mindray CL Series	
pg/ml	236	189	283		
pmol/l	575	460	690	Diasorin Liaison XL	
pg/ml	156	125	187		
pmol/l	733	586	880	Beckman Access / Access 2 Sensitive B84493	
pg/ml	199	159	239		
pmol/l	657	526	788	Beckman Dxl600/800 Sensitive B84493	
pg/ml	179	143	215		
pmol/l	970	776	1164	Siemens Atellica IM	
pg/ml	264	211	317		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	641	513	769	Abbott Alinity i
	pg/ml	174	140	208	
	pmol/l	722	578	866	Roche Cobas e801 (Estradiol III)
	pg/ml	196	157	235	
	pmol/l	709	567	851	Tosoh AIA-CL Series
	pg/ml	193	154	232	
Paracetamol	mmol/l	0.330	0.264	0.396	Roche Cobas c501/502/503/701/702
	mg/l	49.9	39.9	59.9	
	mmol/l	0.330	0.264	0.396	Beckman AU Instruments
	mg/l	49.9	39.9	59.9	
	mmol/l	0.330	0.264	0.396	EMIT
	mg/l	49.9	39.9	59.9	
	mmol/l	0.340	0.272	0.408	Abbott Alinity
	mg/l	51.4	41.2	61.6	
	mmol/l	0.348	0.280	0.420	Gravimetric
	mg/l	52.7	42.4	63.5	
Phenobarbital	µmol/l	81.1	64.9	97.3	Abbott Architect (CMIA)
	µg/ml	18.8	15.1	22.5	
	µmol/l	75.4	60.3	90.5	Roche Cobas e601/602/801
	µg/ml	17.5	14.0	21.0	
	µmol/l	78.4	62.7	94.1	Beckman AU400/600/640/2700/5400
	µg/ml	18.2	14.5	21.9	
	µmol/l	107	85.6	128	Siemens Centaur XP/XPT/Classic
	µg/ml	24.8	19.9	29.7	
	µmol/l	75.9	60.7	91.1	Roche Integra
	µg/ml	17.6	14.1	21.1	
	µmol/l	76.2	61.0	91.4	Roche Cobas C303/501/502/503/701
	µg/ml	17.7	14.2	21.2	
	µmol/l	69.9	55.9	83.9	Microgenics CEDIA assay
	µg/ml	16.2	13.0	19.4	
µmol/l	80.6	64.5	96.7	Siemens Atellica CH	
µg/ml	18.7	15.0	22.4		
µmol/l	74.8	59.8	89.8	Abbott Alinity (PETINA)	
µg/ml	17.4	13.9	20.9		
Phenytoin	µmol/l	66.1	52.9	79.3	Abbott Architect
	µg/ml	16.7	13.4	20.0	
	µmol/l	81.7	65.4	98.0	Siemens Centaur XP/XPT/Classic
	µg/ml	20.6	16.5	24.7	
	µmol/l	65.7	52.6	78.8	Roche Integra
	µg/ml	16.6	13.3	19.9	
	µmol/l	68.3	54.6	82.0	Vitros
	µg/ml	17.2	13.8	20.6	
	µmol/l	68.2	54.6	81.8	Roche Cobas 6000/8000
	µg/ml	17.2	13.8	20.6	
µmol/l	69.8	55.8	83.8	Beckman AU Instruments	
µg/ml	17.6	14.1	21.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	69.0	55.2	82.8	EMIT
	µg/ml	17.4	13.9	20.9	
	µmol/l	75.3	60.2	90.4	Siemens Atellica CH
	µg/ml	19.0	15.2	22.8	
	µmol/l	70.7	56.6	84.8	Abbott Alinity
	µg/ml	17.9	14.3	21.5	
Primidone	µmol/l	22.5	18.0	27.0	Gravimetric
	µg/ml	4.91	3.93	5.89	
Progesterone	nmol/l	29.2	23.4	35.0	Abbott Architect
	ng/ml	9.14	7.32	11.0	
	nmol/l	35.3	28.2	42.4	BioMerieux Vidas
	ng/ml	11.0	8.83	13.2	
	nmol/l	25.3	20.2	30.4	Siemens Centaur XP/XPT/Classic
	ng/ml	7.92	6.32	9.52	
	nmol/l	25.3	20.2	30.4	Siemens Immulite 2000/2500
	ng/ml	7.92	6.32	9.52	
	nmol/l	29.0	23.2	34.8	Siemens Immulite 1000
	ng/ml	9.08	7.26	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	33.5	26.8	40.2	Roche Elecsys (Prog. II)
	ng/ml	10.5	8.39	12.6	
	nmol/l	31.9	25.5	38.3	Beckman Access Prog Cal 33555
	ng/ml	9.98	7.98	12.0	
	nmol/l	36.5	29.2	43.8	Tosoh Series
	ng/ml	11.4	9.14	13.7	
	nmol/l	35.7	28.6	42.8	Vitros ECi
	ng/ml	11.2	8.95	13.5	
	nmol/l	34.3	27.4	41.2	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	10.7	8.58	12.8	
	nmol/l	33.9	27.1	40.7	Roche Cobas e601/602 (Prog. II)
	ng/ml	10.6	8.48	12.7	
nmol/l	32.5	26.0	39.0	SNIBE Maglumi Analysers	
ng/ml	10.2	8.14	12.3		
nmol/l	25.6	20.5	30.7	Beckman Dxl Prog DE Cal A80773	
ng/ml	8.01	6.42	9.60		
nmol/l	31.3	25.0	37.6	Beckman Access Prog DE Cal A80773	
ng/ml	9.80	7.83	11.8		
nmol/l	24.9	19.9	29.9	Siemens Centaur CP	
ng/ml	7.79	6.23	9.35		
nmol/l	40.9	32.7	49.1	Mindray CL 8000i/6000i/2000i/1200i/1000i	
ng/ml	12.8	10.2	15.4		
nmol/l	33.6	26.9	40.3	Roche Cobas e601/602 (Prog. III)	
ng/ml	10.5	8.42	12.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	33.2	26.6	39.8	Roche Elecsys (Prog. III)
	ng/ml	10.4	8.33	12.5	
	nmol/l	33.9	27.1	40.7	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	10.6	8.48	12.7	
	nmol/l	28.4	22.7	34.1	Diasorin Liaison XL
	ng/ml	8.89	7.11	10.7	
	nmol/l	27.7	22.2	33.2	Abbott Alinity i
	ng/ml	8.67	6.95	10.4	
	nmol/l	26.2	21.0	31.4	Siemens Atellica IM
	ng/ml	8.20	6.57	9.83	
	nmol/l	33.7	27.0	40.4	Roche Cobas e801 (Prog. III)
	ng/ml	10.5	8.45	12.6	
	nmol/l	37.9	30.3	45.5	Tosoh AIA-CL Series
	ng/ml	11.9	9.48	14.3	
Prolactin	µU/ml	636	509	763	Abbott Architect
	µU/ml	683	546	820	BioMerieux Vidas
	µU/ml	516	413	619	Siemens Centaur XP/XPT/Classic
	µU/ml	562	450	674	Siemens Immulite 2000/2500
	µU/ml	630	504	756	Siemens Immulite 1000
	µU/ml	544	435	653	Beckman Dxl800
	µU/ml	783	626	940	Roche Elecsys
	µU/ml	562	450	674	Beckman Access
	µU/ml	622	498	746	Tosoh Series
	µU/ml	553	442	664	Vitros ECi
	µU/ml	754	603	905	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	651	521	781	Immunotech IRMA
	µU/ml	782	626	938	Roche Cobas 4000/E411
	µU/ml	752	602	902	Roche Cobas e601/602
	µU/ml	686	549	823	SNIBE Maglumi Analysers
	µU/ml	542	434	650	Siemens Centaur CP
	µU/ml	721	577	865	Mindray CL 8000i/6000i/2000i/1200i/1000i
	µU/ml	777	622	932	Diasorin Liaison XL
	µU/ml	491	393	589	Siemens Atellica IM
	µU/ml	668	534	802	Abbott Alinity i
µU/ml	735	588	882	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	11.3	8.48	14.1	Abbott Architect
	ng/ml = µg/l	12.5	9.38	15.6	BioMerieux Vidas
	ng/ml = µg/l	10.4	7.80	13.0	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.65	7.24	12.1	Siemens Immulite 2000/2500
	ng/ml = µg/l	12.8	9.60	16.0	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	9.52	7.14	11.9	Roche Elecsys
	ng/ml = µg/l	13.0	9.75	16.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	9.34	7.01	11.7	Tosoh Series
	ng/ml = µg/l	9.39	7.04	11.7	Roche Cobas 4000/E411
	ng/ml = µg/l	9.41	7.06	11.8	Roche Cobas e601/602

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	11.7	8.78	14.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.7	9.53	15.9	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.87	6.65	11.1	SNIBE Maglumi Analysers
	ng/ml = µg/l	8.83	6.62	11.0	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	10.2	7.65	12.8	Diasorin Liaison XL
	ng/ml = µg/l	11.1	8.33	13.9	Siemens Atellica IM
	ng/ml = µg/l	11.1	8.33	13.9	Abbott Alinity i
	ng/ml = µg/l	9.07	6.80	11.3	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	9.16	6.87	11.5	Abbott Architect
	ng/ml = µg/l	10.8	8.10	13.5	BioMerieux Vidas
	ng/ml = µg/l	11.0	8.25	13.8	bioMerieux VIDAS TPSA
	ng/ml = µg/l	11.5	8.63	14.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.45	7.09	11.8	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	13.0	9.75	16.3	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	12.7	9.53	15.9	Roche Elecsys
	ng/ml = µg/l	13.5	10.1	16.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	13.6	10.2	17.0	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.29	6.22	10.4	Tosoh Series
	ng/ml = µg/l	12.6	9.45	15.8	Vitros ECi
	ng/ml = µg/l	9.19	6.89	11.5	Immunotech IRMA
	ng/ml = µg/l	12.6	9.45	15.8	Roche Cobas 4000/E411
	ng/ml = µg/l	12.6	9.45	15.8	Roche Cobas e601/602
	ng/ml = µg/l	10.7	8.03	13.4	SNIBE Maglumi Analysers
	ng/ml = µg/l	12.8	9.60	16.0	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	11.3	8.48	14.1	Siemens Centaur CP
	ng/ml = µg/l	11.7	8.78	14.6	Diasorin Liaison XL
	ng/ml = µg/l	11.5	8.63	14.4	Siemens Atellica IM
	ng/ml = µg/l	9.35	7.01	11.7	Abbott Alinity i
ng/ml = µg/l	12.0	9.00	15.0	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	1.18	0.944	1.42	Roche Cobas c501/502/503
	mg/dl	16.3	13.0	19.6	
	mmol/l	1.19	0.952	1.43	EMIT
	mg/dl	16.4	13.1	19.7	
	mmol/l	1.22	0.980	1.46	Gravimetric
mg/dl	16.9	13.5	20.2		
SHBG	nmol/l	40.7	32.6	48.8	Siemens Immulite 2000/2500
	nmol/l	43.8	35.0	52.6	Abbott Architect
	nmol/l	44.7	35.8	53.6	Beckman Access
	nmol/l	43.4	34.7	52.1	Beckman Dxl800
	nmol/l	48.4	38.7	58.1	SNIBE Maglumi Analysers
	nmol/l	41.8	33.4	50.2	Siemens Atellica IM
	nmol/l	39.0	31.2	46.8	Roche analysers - 413417/15
	nmol/l	37.7	30.2	45.2	Roche Cobas e801 - 413429
nmol/l	42.0	33.6	50.4	Abbott Alinity i	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
T Uptake	%U	32.0	26.2	37.8	Siemens Immulite 2000
Testosterone	nmol/l	14.1	11.3	16.9	Abbott Architect
	ng/ml	4.06	3.25	4.87	
	ng/dl	406	325	487	
	nmol/l	13.1	10.5	15.7	BioMerieux Vidas
	ng/ml	3.77	3.02	4.52	
	ng/dl	377	302	452	
	nmol/l	14.7	11.8	17.6	Siemens Centaur XP/XPT/Classic
	ng/ml	4.23	3.40	5.06	
	ng/dl	423	340	506	
	nmol/l	15.4	12.3	18.5	Siemens Immulite 2000/2500
	ng/ml	4.44	3.54	5.34	
	ng/dl	444	354	534	
	nmol/l	14.9	11.9	17.9	Siemens Immulite 1000
	ng/ml	4.29	3.43	5.15	
	ng/dl	429	343	515	
	nmol/l	12.5	10.0	15.0	Beckman DxI800
	ng/ml	3.60	2.88	4.32	
	ng/dl	360	288	432	
	nmol/l	13.4	10.7	16.1	Beckman Access
	ng/ml	3.86	3.08	4.64	
	ng/dl	386	308	464	
	nmol/l	16.8	13.4	20.2	Tosoh Series
	ng/ml	4.84	3.86	5.82	
	ng/dl	484	386	582	
nmol/l	17.5	14.0	21.0	Vitros ECi	
ng/ml	5.04	4.03	6.05		
ng/dl	504	403	605		
nmol/l	14.5	11.6	17.4	Roche Cobas e601/602 Test II	
ng/ml	4.18	3.34	5.02		
ng/dl	418	334	502		
nmol/l	14.3	11.4	17.2	Roche Elecsys Test II	
ng/ml	4.12	3.28	4.96		
ng/dl	412	328	496		
nmol/l	14.3	11.4	17.2	Roche Cobas 4000/e411 Test II	
ng/ml	4.12	3.28	4.96		
ng/dl	412	328	496		
nmol/l	9.94	7.95	11.9	Immunotech RIA	
ng/ml	2.86	2.29	3.43		
ng/dl	286	229	343		
nmol/l	14.0	11.2	16.8	Abbott Architect 2nd Generation	
ng/ml	4.03	3.23	4.83		
ng/dl	403	323	483		
nmol/l	12.4	9.92	14.9	BioMerieux Vidas Testosterone II	
ng/ml	3.57	2.86	4.28		
ng/dl	357	286	428		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Testosterone	nmol/l	19.8	15.8	23.8	Mindray CL 8000i/6000i/2000i/1200i/1000i	
	ng/ml	5.70	4.55	6.85		
	ng/dl	570	455	685		
		nmol/l	14.8	11.8	17.8	Siemens Centaur TST II
		ng/ml	4.26	3.40	5.12	
		ng/dl	426	340	512	
		nmol/l	14.7	11.8	17.6	Siemens Atellica IM
		ng/ml	4.23	3.40	5.06	
		ng/dl	423	340	506	
		nmol/l	14.2	11.4	17.0	Roche Cobas e801 Test II
		ng/ml	4.09	3.28	4.90	
		ng/dl	409	328	490	
	nmol/l	14.2	11.4	17.0	Abbott Alinity i	
	ng/ml	4.09	3.28	4.90		
	ng/dl	409	328	490		
Theophylline	µmol/l	86.3	69.0	104	Roche Integra	
	µg/ml	15.6	12.4	18.8		
		µmol/l	81.0	64.8	97.2	Roche Cobas 6000/8000
		µg/ml	14.6	11.7	17.5	
		µmol/l	83.3	66.6	100	Abbott Alinity Enzyme-Immu
		µg/ml	15.0	12.0	18.0	
	µmol/l	83.8	67.0	101	Gravimetric	
	µg/ml	15.1	12.1	18.2		
Thyroglobulin	ng/ml	18.9	14.2	23.6	Siemens Immulite 1000	
	ng/ml	19.1	14.3	23.9	Siemens Immulite 2000	
	ng/ml	33.5	25.1	41.9	Roche Elecsys	
	ng/ml	34.6	26.0	43.3	Beckman DxI800	
	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	34.6	26.0	43.3	Beckman Access	
	ng/ml	39.2	29.4	49.0	Abbott Architect 2000i	
	ng/ml	3.64	2.73	4.55	SNIBE Maglumi Analysers	
	ng/ml	36.7	27.5	45.9	Tosoh Series	
	ng/ml	33.6	25.2	42.0	Roche Cobas e601/602 Tg II	
	ng/ml	34.6	26.0	43.3	Roche Elecsys TGII	
	ng/ml	34.0	25.5	42.5	Roche Cobas 4000/E411 TGII	
	ng/ml	44.0	33.0	55.0	Diasorin Liaison XL	
	ng/ml	33.1	24.8	41.4	Roche Cobas e801 Tg II	
	ng/ml	40.8	30.6	51.0	DiaSorin Liaison TG II Gen	
	ng/ml	42.5	31.9	53.1	DiaSorin Liaison XL TG II Gen	
	Thyroid Stimulating Hormone	µU/ml = mIU/l	1.83	1.46	2.20	Abbott Architect
µU/ml = mIU/l		2.08	1.66	2.50	bioMerieux VIDAS TSH	
µU/ml = mIU/l		1.85	1.48	2.22	bioMerieux VIDAS TSH3 Ultrasensitive	
µU/ml = mIU/l		2.20	1.76	2.64	Siemens Centaur XP/XPT/Classic	
µU/ml = mIU/l		2.09	1.67	2.51	Siemens Centaur XP/XPT/Classic 3rd Generation	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.13	1.70	2.56	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.01	1.61	2.41	Siemens Immulite 1000
	µU/ml = mIU/l	1.96	1.57	2.35	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.01	1.61	2.41	Beckman Dxl800
	µU/ml = mIU/l	2.33	1.86	2.80	Roche Elecsys
	µU/ml = mIU/l	2.88	2.30	3.46	Diasorin Liaison
	µU/ml = mIU/l	2.05	1.64	2.46	Beckman Access Fast TSH
	µU/ml = mIU/l	2.05	1.64	2.46	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	3.23	2.58	3.88	Tosoh Series
	µU/ml = mIU/l	2.08	1.66	2.50	Vitros Eci
	µU/ml = mIU/l	2.02	1.62	2.42	Immunotech IRMA
	µU/ml = mIU/l	2.34	1.87	2.81	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.31	1.85	2.77	Roche Cobas e601/602
	µU/ml = mIU/l	1.93	1.54	2.32	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.18	1.74	2.62	SNIBE Maglumi Analysers
	µU/ml = mIU/l	2.11	1.69	2.53	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	1.89	1.51	2.27	Siemens Dimension Exl LOCI
	µU/ml = mIU/l	1.93	1.54	2.32	Siemens Centaur CP
	µU/ml = mIU/l	1.89	1.51	2.27	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	2.74	2.19	3.29	Mindray CL 8000i/6000i/2000i/1200i/1000i
µU/ml = mIU/l	2.03	1.62	2.44	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	2.87	2.30	3.44	Diasorin Liaison XL	
µU/ml = mIU/l	2.10	1.68	2.52	Siemens Atellica IM	
µU/ml = mIU/l	1.79	1.43	2.15	Abbott Alinity i	
µU/ml = mIU/l	2.16	1.73	2.59	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	24.9	19.9	29.9	Abbott Architect
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	44.1	35.3	52.9	BioMerieux Vidas
	IU/ml	0.044	0.035	0.053	
	mU/ml=IU/l	25.8	20.6	31.0	Siemens Centaur XP/XPT/Classic
	IU/ml	0.026	0.021	0.031	
	mU/ml=IU/l	48.4	38.7	58.1	Siemens Dimension
	IU/ml	0.048	0.039	0.057	
	mU/ml=IU/l	56.4	45.1	67.7	Siemens Immulite 2000
	IU/ml	0.056	0.045	0.067	
	mU/ml=IU/l	56.9	45.5	68.3	Siemens Immulite 1000
	IU/ml	0.057	0.046	0.068	
	mU/ml=IU/l	28.3	22.6	34.0	Beckman Dxl800
	IU/ml	0.028	0.023	0.033	
	mU/ml=IU/l	29.0	23.2	34.8	Roche Cobas Core EIA
	IU/ml	0.029	0.023	0.035	
	mU/ml=IU/l	28.0	22.4	33.6	Beckman Access
	IU/ml	0.028	0.022	0.034	
mU/ml=IU/l	45.9	36.7	55.1	Tosoh Series	
IU/ml	0.046	0.037	0.055		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	46.5	37.2	55.8	Vitros ECI
	IU/ml	0.047	0.037	0.057	
	mU/ml=IU/l	23.7	19.0	28.4	Roche hCG STAT (Intact)
	IU/ml	0.024	0.019	0.029	
	mU/ml=IU/l	29.3	23.4	35.2	Roche hCG+Beta
	IU/ml	0.029	0.023	0.035	
	mU/ml=IU/l	49.6	39.7	59.5	SNIBE Maglumi Analysers
	IU/ml	0.050	0.040	0.060	
	mU/ml=IU/l	27.6	22.1	33.1	Beckman Access Total BhCG (5th IS)
	IU/ml	0.028	0.022	0.034	
	mU/ml=IU/l	28.2	22.6	33.8	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.028	0.023	0.033	
	mU/ml=IU/l	26.2	21.0	31.4	Siemens Centaur CP
	IU/ml	0.026	0.021	0.031	
	mU/ml=IU/l	23.0	18.4	27.6	Mindray CL Series
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	27.5	22.0	33.0	Diasorin Liaison XL
	IU/ml	0.028	0.022	0.034	
	mU/ml=IU/l	26.6	21.3	31.9	Siemens Atellica IM
	IU/ml	0.027	0.021	0.033	
mU/ml=IU/l	25.2	20.2	30.2	Abbott Alinity i	
IU/ml	0.025	0.020	0.030		
mU/ml=IU/l	29.0	23.2	34.8	Roche hCG+Beta e801	
IU/ml	0.029	0.023	0.035		
mU/ml=IU/l	55.3	44.2	66.4	Tosoh AIA-CL Series	
IU/ml	0.055	0.044	0.066		
Total T3	nmol/l	3.87	2.90	4.84	Abbott Architect
	ng/ml	2.52	1.89	3.15	
	ng/dl	252	189	315	
	nmol/l	4.34	3.26	5.43	BioMerieux Vidas
	ng/ml	2.83	2.12	3.54	
	ng/dl	283	212	354	
	nmol/l	4.75	3.56	5.94	Siemens Centaur XP/XPT/Classic
	ng/ml	3.09	2.32	3.86	
	ng/dl	309	232	386	
	nmol/l	3.92	2.94	4.90	Siemens Immulite 2000/2500
	ng/ml	2.55	1.91	3.19	
	ng/dl	255	191	319	
	nmol/l	4.14	3.11	5.18	Beckman Dxl800
	ng/ml	2.70	2.02	3.38	
	ng/dl	270	202	338	
	nmol/l	4.64	3.48	5.80	Roche Elecsys
	ng/ml	3.02	2.27	3.77	
	ng/dl	302	227	377	
	nmol/l	4.14	3.11	5.18	Beckman Access
	ng/ml	2.70	2.02	3.38	
ng/dl	270	202	338		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	4.15	3.11	5.19	Tosoh Series
	ng/ml	2.70	2.02	3.38	
	ng/dl	270	202	338	
	nmol/l	4.85	3.64	6.06	Vitros ECi
	ng/ml	3.16	2.37	3.95	
	ng/dl	316	237	395	
	nmol/l	4.52	3.39	5.65	Roche Cobas 4000/E411
	ng/ml	2.94	2.21	3.67	
	ng/dl	294	221	367	
	nmol/l	3.62	2.72	4.53	Immunotech RIA
	ng/ml	2.36	1.77	2.95	
	ng/dl	236	177	295	
	nmol/l	4.49	3.37	5.61	Roche Cobas e601/602
	ng/ml	2.92	2.19	3.65	
	ng/dl	292	219	365	
	nmol/l	4.00	3.00	5.00	SNIBE Maglumi Analysers
	ng/ml	2.60	1.95	3.25	
	ng/dl	260	195	325	
	nmol/l	4.82	3.62	6.03	Siemens Centaur CP
	ng/ml	3.14	2.36	3.92	
	ng/dl	314	236	392	
nmol/l	3.86	2.90	4.83	Mindray CL Series	
ng/ml	2.51	1.89	3.13		
ng/dl	251	189	313		
nmol/l	3.17	2.38	3.96	Diasorin Liaison XL	
ng/ml	2.06	1.55	2.57		
ng/dl	206	155	257		
nmol/l	3.92	2.94	4.90	Abbott Alinity i	
ng/ml	2.55	1.91	3.19		
ng/dl	255	191	319		
nmol/l	4.73	3.55	5.91	Siemens Atellica IM	
ng/ml	3.08	2.31	3.85		
ng/dl	308	231	385		
nmol/l	4.81	3.61	6.01	Roche Cobas e402/e801	
ng/ml	3.13	2.35	3.91		
ng/dl	313	235	391		
nmol/l	4.35	3.26	5.44	Tosoh AIA-CL Series	
ng/ml	2.83	2.12	3.54		
ng/dl	283	212	354		
Total T4	nmol/l	118	88.5	148	Abbott Architect
	µg/dl	9.20	6.90	11.5	
	ng/ml	92.0	69.0	115	
	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. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	133	100	166	Siemens Centaur XP/XPT/Classic
	µg/dl	10.4	7.80	13.0	
	ng/ml	104	78.0	130	
	nmol/l	115	86.3	144	Siemens Immulite 2000/2500
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	
	nmol/l	123	92.3	154	Beckman Dxl800
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	115	86.3	144	Roche Elecsys
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	
	nmol/l	127	95.3	159	Beckman Access
	µg/dl	9.91	7.43	12.4	
	ng/ml	99.1	74.3	124	
	nmol/l	114	85.5	143	Tosoh Series
	µg/dl	8.89	6.67	11.1	
	ng/ml	88.9	66.7	111	
	nmol/l	128	96.0	160	Vitros ECi
	µg/dl	9.98	7.49	12.5	
	ng/ml	100	74.9	125	
	nmol/l	118	88.5	148	Roche Cobas 4000/E411
	µg/dl	9.20	6.90	11.5	
	ng/ml	92.0	69.0	115	
	nmol/l	115	86.3	144	Roche Cobas e601/602
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	
nmol/l	95.9	71.9	120	Immunotech IRMA	
µg/dl	7.48	5.61	9.35		
ng/ml	74.8	56.1	93.5		
nmol/l	134	101	168	SNIBE Maglumi Analysers	
µg/dl	10.5	7.88	13.1		
ng/ml	105	78.8	131		
nmol/l	141	106	176	Siemens Centaur CP	
µg/dl	11.0	8.27	13.7		
ng/ml	110	82.7	137		
nmol/l	133	100	166	Mindray CL Series	
µg/dl	10.4	7.80	13.0		
ng/ml	104	78.0	130		
nmol/l	95.4	71.6	119	Diasorin Liaison XL	
µg/dl	7.44	5.58	9.30		
ng/ml	74.4	55.8	93.0		
nmol/l	117	87.8	146	Abbott Alinity i	
µg/dl	9.13	6.85	11.4		
ng/ml	91.3	68.5	114		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	140	105	175	Siemens Atellica IM
	µg/dl	10.9	8.19	13.6	
	ng/ml	109	81.9	136	
	nmol/l	109	81.8	136	Roche Cobas e402/e801
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	149	112	186	Tosoh AIA-CL Series
	µg/dl	11.6	8.74	14.5	
	ng/ml	116	87.4	145	
Valproic Acid	µmol/l	509	407	611	Abbott Architect (CMIA)
	µg/ml	73.4	58.7	88.1	
	µmol/l	584	467	701	Siemens Centaur XP/XPT/Classic
	µg/ml	84.3	67.4	101	
	µmol/l	553	442	664	Siemens Immulite 2000/2500
	µg/ml	79.8	63.8	95.8	
	µmol/l	533	426	640	Roche Integra
	µg/ml	76.9	61.5	92.3	
	µmol/l	538	430	646	Vitros
	µg/ml	77.6	62.0	93.2	
	µmol/l	531	425	637	Roche Cobas 6000/8000
	µg/ml	76.6	61.3	91.9	
	µmol/l	562	450	674	Beckman AU400/600/640/2700/5400
	µg/ml	81.1	64.9	97.3	
	µmol/l	540	432	648	Abbott Architect (PETINA)
	µg/ml	77.9	62.3	93.5	
	µmol/l	534	427	641	Siemens Atellica CH
	µg/ml	77.1	61.6	92.6	
	µmol/l	560	448	672	Abbott Alinity (CMIA)
	µg/ml	80.8	64.6	97.0	
	µmol/l	537	430	644	Abbott Alinity (PETINA)
µg/ml	77.5	62.0	93.0		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	6.86	5.49	8.23	Roche Integra
	µg/ml	10.2	8.16	12.2	
	µmol/l	6.56	5.25	7.87	Ortho Vitros Microslide Systems
	µg/ml	9.75	7.80	11.7	
	µmol/l	7.99	6.39	9.59	Abbott Architect (CMIA)
	µg/ml	11.9	9.49	14.3	
	µmol/l	6.62	5.30	7.94	Siemens Centaur XP/XPT/Classic
	µg/ml	9.84	7.87	11.8	
	µmol/l	7.72	6.18	9.26	Siemens Dimension
	µg/ml	11.5	9.18	13.8	
	µmol/l	7.05	5.64	8.46	Roche Cobas 6000/8000
	µg/ml	10.5	8.38	12.6	
	µmol/l	7.50	6.00	9.00	Abbott Architect (PETINA)
	µg/ml	11.1	8.91	13.3	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2286EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Vancomycin	µmol/l	6.43	5.14	7.72	EMIT	
	µg/ml	9.55	7.64	11.5		
	µmol/l	6.99	5.59	8.39	Siemens Atellica CH	
	µg/ml	10.4	8.31	12.5		
	µmol/l	7.55	6.04	9.06	Abbott Alinity (CMIA)	
	µg/ml	11.2	8.97	13.4		
	µmol/l	7.24	5.79	8.69	Abbott Alinity (PETINA)	
	µg/ml	10.8	8.60	13.0		
	µmol/l	7.10	5.68	8.52	Gravimetric	
	µg/ml	10.5	8.44	12.7		
	Vitamin B12	pmol/l	381	305	457	Abbott Architect
		pg/ml	516	413	619	
pmol/l		344	275	413	Siemens Centaur XP/XPT/Classic	
pg/ml		466	373	559		
pmol/l		372	298	446	Siemens Immulite 2000	
pg/ml		504	404	604		
pmol/l		284	227	341	Beckman DxI800	
pg/ml		385	308	462		
pmol/l		428	342	514	Roche Elecsys	
pg/ml		580	463	697		
pmol/l		318	254	382	Beckman Access	
pg/ml		431	344	518		
pmol/l		540	432	648	Tosoh Series	
pg/ml		732	585	879		
pmol/l		382	306	458	Vitros ECI	
pg/ml		518	415	621		
pmol/l		391	313	469	Siemens Dimension	
pg/ml		530	424	636		
pmol/l		304	243	365	SNIBE Maglumi Analysers	
pg/ml		412	329	495		
pmol/l		417	334	500	Roche Cobas 4000/e411 Gen II	
pg/ml		565	453	677		
pmol/l		439	351	527	Roche Cobas e601/602 Gen II	
pg/ml		595	476	714		
pmol/l		467	374	560	Mindray CL Series	
pg/ml		633	507	759		
pmol/l		354	283	425	Diasorin Liaison XL	
pg/ml		480	383	577		
pmol/l		354	283	425	Siemens Atellica IM	
pg/ml		480	383	577		
pmol/l	402	322	482	Abbott Alinity i		
pg/ml	545	436	654			
pmol/l	426	341	511	Roche Cobas e801 Gen II		
pg/ml	577	462	692			