

PRODUCT INFORMATION

IA3110 / IA3112

2026EC

The reconstituted stability for Immunoassay Premium Plus Level 2 lot 2026EC for **Free PSA and Total PSA is 2 days when stored at +2°C to +8°C**
Free PSA and Total PSA are stable for 28 days when frozen once and stored at -20°C.

CCS6934

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. 2026EC	EXPIRY: 2023-11-28	

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. Free PSA and Total PSA are stable for 2 days when stored at +2°C to +8°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

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

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

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

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

MATERIALS PROVIDED

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

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Aldosterone is present in control levels 2 and level 3 only. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

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

EC	REP
----	-----

Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

11 Mar 21 me

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	9.86	7.40	12.3	Immunotech RIA
	ng/ml	3.26	2.45	4.07	
	nmol/l	6.76	5.07	8.45	Novatec ELISA
	ng/ml	2.24	1.68	2.80	
	nmol/l	14.3	10.7	17.9	DRG ELISA
	ng/ml	4.73	3.54	5.92	
	nmol/l	11.9	8.93	14.9	DIAsource RIA
	ng/ml	3.94	2.96	4.92	
	nmol/l	15.6	11.7	19.5	DIAsource ELISA
	ng/ml	5.16	3.87	6.45	
	nmol/l	12.9	9.68	16.1	IBL ELISA
	ng/ml	4.27	3.20	5.34	
	nmol/l	12.3	9.23	15.4	LC/MS
	ng/ml	4.07	3.06	5.08	
25-OH Vitamin D	nmol/l	10.5	7.88	13.1	Beckman Coulter RIA
	ng/ml	3.48	2.61	4.35	
	nmol/l	10.5	7.88	13.1	DBC ELISA
	ng/ml	3.48	2.61	4.35	
	nmol/l	61.1	45.8	76.4	Diasorin Liaison
	nmol/l	82.3	61.7	103	Siemens Centaur XP/XPT/Classic
	nmol/l	52.7	39.5	65.9	Roche Vitamin D Total
	nmol/l	52.4	39.3	65.5	Abbott Architect (3L52)
	nmol/l	80.3	60.2	100	Vitros ECi
	nmol/l	62.9	47.2	78.6	Tosoh Series
	nmol/l	65.5	49.1	81.9	BioMerieux Vidas
	nmol/l	52.4	39.3	65.5	Beckman Dxl 600/800
	nmol/l	56.0	42.0	70.0	Fujirebio Lumipulse G Series
	nmol/l	57.3	43.0	71.6	Beckman Access 25 OH Vitamin D Total
nmol/l	55.7	41.8	69.6	LC/MS	
nmol/l	53.1	39.8	66.4	Abbott Architect (5P02)/ Alinity (8P45)	
nmol/l	65.4	49.1	81.8	Diasorin Liaison XL	
nmol/l	55.4	41.6	69.3	Roche Vitamin D Total II	
nmol/l	55.2	41.4	69.0	Abbott Alinity i	
nmol/l	77.3	58.0	96.6	Siemens Atellica IM	
nmol/l	57.3	43.0	71.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	8.45	6.34	10.6	Siemens Immulite 2000/2500
	pg/ml	38.4	28.8	48.0	
	pmol/l	9.38	7.04	11.7	Roche Cobas 4000/E411
	pg/ml	42.6	32.0	53.2	
	pmol/l	9.71	7.28	12.1	Roche Cobas e601/602
	pg/ml	44.1	33.1	55.1	
	pmol/l	13.6	10.2	17.0	CIS IRMA
	pg/ml	61.8	46.4	77.2	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
ACTH	pmol/l	8.14	6.11	10.2	Siemens Immulite 1000
	pg/ml	37.0	27.8	46.2	
	pmol/l	13.4	10.1	16.8	Diasorin Liaison
	pg/ml	60.9	45.9	75.9	
	pmol/l	10.3	7.73	12.9	Roche Cobas e801
	pg/ml	46.8	35.1	58.5	
Aldosterone	pmol/l	19.4	14.6	24.3	CIS RIA
	pg/ml	7.00	5.27	8.73	
	pmol/l	274	206	343	Immunotech RIA
	pg/ml	98.9	74.3	124	
	pmol/l	160	120	200	Diasorin Liaison
	pg/ml	57.7	43.3	72.1	
pmol/l	170	128	213	Diasorin Liaison XL	
pg/ml	61.3	46.2	76.4		
Alphafoetoprotein	KIU/l = IU/ml	44.7	35.8	53.6	Abbott Architect
	ng/ml	54.1	43.3	64.9	
	KIU/l = IU/ml	41.1	32.9	49.3	BioMerieux Vidas
	ng/ml	49.7	39.8	59.6	
	KIU/l = IU/ml	53.7	42.4	65.0	Siemens Centaur XP/XPT/Classic
	ng/ml	65.0	51.4	78.6	
	KIU/l = IU/ml	44.4	35.5	53.3	Siemens Immulite 2000/2500
	ng/ml	53.7	43.0	64.4	
	KIU/l = IU/ml	46.1	36.9	55.3	Siemens Immulite 1000
	ng/ml	55.8	44.6	67.0	
	KIU/l = IU/ml	43.3	34.6	52.0	Beckman DxI800
	ng/ml	52.4	41.9	62.9	
	KIU/l = IU/ml	48.7	39.0	58.4	Roche Elecsys
	ng/ml	58.9	47.2	70.6	
	KIU/l = IU/ml	48.4	38.7	58.1	Diasorin Liaison
	ng/ml	58.6	46.8	70.4	
	KIU/l = IU/ml	44.6	35.7	53.5	Beckman Access
	ng/ml	54.0	43.2	64.8	
	KIU/l = IU/ml	45.4	36.3	54.5	Tosoh Series
	ng/ml	54.9	43.9	65.9	
KIU/l = IU/ml	47.1	37.7	56.5	Vitros ECI	
ng/ml	49.0	39.2	58.8		
KIU/l = IU/ml	50.7	40.6	60.8	Roche Cobas e601/602	
ng/ml	61.3	49.1	73.5		
KIU/l = IU/ml	75.4	60.3	90.5	CIS IRMA	
ng/ml	91.2	73.0	109		
KIU/l = IU/ml	50.4	40.3	60.5	Roche Cobas 4000/E411	
ng/ml	61.0	48.8	73.2		
KIU/l = IU/ml	50.5	40.4	60.6	Siemens Dimension	
ng/ml	61.1	48.9	73.3		
KIU/l = IU/ml	55.2	43.6	66.8	Siemens Centaur CP	
ng/ml	66.8	52.8	80.8		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Alphafoetoprotein	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	53.3	42.6	64.0	Siemens Atellica IM	
	ng/ml	64.5	51.5	77.5		
	KIU/l = IU/ml	44.7	35.8	53.6	Abbott Alinity i	
	ng/ml	54.1	43.3	64.9		
	KIU/l = IU/ml	49.7	39.8	59.6	Roche Cobas e801	
	ng/ml	60.1	48.2	72.0		
Amikacin	µmol/l	14.4	11.5	17.3	Roche Cobas 6000/8000	
	µg/ml	8.43	6.73	10.1		
	µmol/l	15.0	12.0	18.0	Thermo Scientific QMS Amikacin	
	µg/ml	8.78	7.03	10.5		
	µmol/l	15.7	12.6	18.8	Abbott Architect	
	µg/ml	9.19	7.38	11.0		
	µmol/l	15.2	12.2	18.2	Gravimetric	
	µg/ml	8.90	7.14	10.7		
Androstenedione	nmol/l	6.05	4.54	7.56	Beckman Coulter RIA	
	ng/ml	1.74	1.30	2.18		
	nmol/l	13.2	9.90	16.5	Siemens Immulite 2000	
	ng/ml	3.79	2.84	4.74		
	nmol/l	11.5	8.63	14.4	Siemens Immulite 1000	
	ng/ml	3.30	2.48	4.12		
	nmol/l	5.58	4.19	6.98	LC/MS	
	ng/ml	1.60	1.20	2.00		
	nmol/l	7.68	5.76	9.60	Diasorin Liaison XL	
	ng/ml	2.20	1.65	2.75		
	Beta-2-microglobulin	µg/ml = mg/l	3.10	2.48	3.72	Abbott Architect
		µg/ml = mg/l	3.23	2.58	3.88	BioMerieux Vidas
µg/ml = mg/l		2.89	2.31	3.47	Behring Nephelometer	
µg/ml = mg/l		2.67	2.14	3.20	Siemens Immulite 2000/2500	
µg/ml = mg/l		3.04	2.43	3.65	Tosoh Series	
µg/ml = mg/l		3.09	2.47	3.71	Roche Cobas 6000/8000	
µg/ml = mg/l		2.79	2.23	3.35	Diasorin Liaison XL	
µg/ml = mg/l		3.07	2.46	3.68	Siemens Atellica CH	
C-Peptide	µg/ml = mg/l	3.07	2.46	3.68	Abbott Alinity	
	nmol/l	2.190	1.640	2.740	Siemens Immulite 2000/2500	
	ng/ml	6.61	4.95	8.27		
	nmol/l	2.190	1.640	2.740	Roche Elecsys	
	ng/ml	6.61	4.95	8.27		
	nmol/l	2.280	1.710	2.850	Roche Cobas e601/602	
	ng/ml	6.88	5.16	8.60		
	nmol/l	2.210	1.660	2.760	Siemens Immulite 1000	
ng/ml	6.67	5.01	8.33			
	nmol/l	2.240	1.680	2.800	Diasorin Liaison	
	ng/ml	6.76	5.07	8.45		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	2.230	1.670	2.790	Roche Cobas 4000/E411
	ng/ml	6.73	5.04	8.42	
	nmol/l	2.060	1.550	2.580	Abbott Architect
	ng/ml	6.22	4.68	7.76	
	nmol/l	1.640	1.230	2.050	Siemens Centaur XP/XPT/Classic
	ng/ml	4.95	3.71	6.19	
	nmol/l	2.280	1.710	2.850	Tosoh Series
	ng/ml	6.88	5.16	8.60	
	nmol/l	2.350	1.760	2.940	Diasorin Liaison XL
	ng/ml	7.09	5.31	8.87	
	nmol/l	2.230	1.670	2.790	Roche Cobas e801
	ng/ml	6.73	5.04	8.42	
	nmol/l	1.690	1.270	2.110	Siemens Atellica IM
	ng/ml	5.10	3.83	6.37	
CA 15-3	nmol/l	1.940	1.460	2.430	Abbott Alinity i
	ng/ml	5.86	4.41	7.31	
	U/ml	50.0	40.0	60.0	Abbott Architect
	U/ml	38.8	31.0	46.6	BioMerieux Vidas
	U/ml	44.0	29.9	58.1	Siemens Centaur XP/XPT/Classic
	U/ml	45.2	36.2	54.2	Siemens Immulite 2000/2500
	U/ml	54.8	43.8	65.8	Siemens Immulite 1000
	U/ml	19.6	15.7	23.5	Beckman Dxl800
	U/ml	41.4	33.1	49.7	Roche Elecsys
	U/ml	47.1	37.7	56.5	Diasorin Liaison
	U/ml	20.3	16.2	24.4	Beckman Access
	U/ml	45.6	36.5	54.7	Tosoh Series
	U/ml	38.3	30.6	46.0	Vitros ECi
	U/ml	42.7	34.2	51.2	Roche Cobas e601/602
	U/ml	42.2	33.8	50.6	Roche Cobas 4000/E411
	U/ml	44.2	30.1	58.3	Siemens Centaur CP
	U/ml	23.4	18.7	28.1	Mindray CL-2000i
	U/ml	42.8	34.2	51.4	Diasorin Liaison XL
	U/ml	46.0	36.8	55.2	Siemens Atellica IM
	U/ml	41.0	32.8	49.2	Roche Cobas e801
U/ml	50.1	40.1	60.1	Abbott Alinity i	
CA 19-9	U/ml	43.2	34.6	51.8	BioMerieux Vidas
	U/ml	66.1	44.9	87.3	Siemens Centaur XP/XPT/Classic
	U/ml	494	395	593	Siemens Immulite 2000/2500
	U/ml	639	511	767	Siemens Immulite 1000
	U/ml	476	381	571	Beckman Dxl800
	U/ml	76.8	61.4	92.2	Roche Elecsys
	U/ml	115	92.0	138	Diasorin Liaison
	U/ml	540	432	648	Beckman Access
	U/ml	63.0	50.4	75.6	Tosoh Series
	U/ml	103	82.4	124	Vitros ECi
	U/ml	89.0	71.2	107	Abbott Architect XR/XR2/XRL

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	77.1	61.7	92.5	Roche Cobas e601/602
	U/ml	77.9	62.3	93.5	Roche Cobas 4000/E411
	U/ml	61.9	42.1	81.7	Siemens Centaur CP
	U/ml	50.9	40.7	61.1	Mindray CL-2000i
	U/ml	124	99.0	149	Diasorin Liaison XL
	U/ml	67.1	53.7	80.5	Siemens Atellica IM
	U/ml	73.7	59.0	88.4	Roche Cobas e801
	U/ml	85.6	68.5	103	Abbott Alinity XR/XR2/XRL
CA125	U/ml	73.7	59.0	88.4	Abbott Architect
	U/ml	56.6	45.3	67.9	BioMerieux Vidas
	U/ml	47.4	32.2	62.6	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	47.4	32.2	62.6	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	32.3	25.8	38.8	Siemens Immulite 2000/2500
	U/ml	35.3	28.2	42.4	Siemens Immulite 1000
	U/ml	23.9	19.1	28.7	Beckman Dxl800
	U/ml	77.2	61.8	92.6	Roche Elecsys
	U/ml	94.4	75.5	113	Diasorin Liaison
	U/ml	24.3	19.4	29.2	Beckman Access
	U/ml	109	87.2	131	Tosoh Series
	U/ml	48.4	38.7	58.1	Vitros ECi
	U/ml	78.3	62.6	94.0	Roche Cobas 4000/E411
	U/ml	77.6	62.1	93.1	Roche Cobas e601/602
	U/ml	65.9	52.7	79.1	Fujirebio Lumipulse G Series
	U/ml	47.0	32.0	62.0	Siemens Centaur CP CA125 II kit
	U/ml	31.9	25.5	38.3	Mindray CL-2000i
	U/ml	81.7	65.4	98.0	Diasorin Liaison XL
	U/ml	58.9	47.1	70.7	Siemens Atellica IM
	U/ml	70.2	56.2	84.2	Roche Cobas e801
U/ml	74.0	59.2	88.8	Abbott Alinity i	
Carbamazepine	µmol/l	37.2	29.8	44.6	Abbott AXSYM
	µg/ml	8.79	7.04	10.5	
	µmol/l	37.5	30.0	45.0	Abbott Architect (CMIA)
	µg/ml	8.87	7.09	10.7	
	µmol/l	39.2	27.4	51.0	Siemens Centaur XP/XPT/Classic
	µg/ml	9.27	6.49	12.1	
	µmol/l	35.6	28.5	42.7	Siemens Dimension
	µg/ml	8.42	6.74	10.1	
	µmol/l	33.0	26.4	39.6	Siemens Immulite 2000/2500
	µg/ml	7.80	6.24	9.36	
	µmol/l	34.7	27.8	41.6	Siemens Immulite 1000
	µg/ml	8.20	6.57	9.83	
	µmol/l	38.1	30.5	45.7	Roche Integra
	µg/ml	9.01	7.21	10.8	
µmol/l	34.2	27.4	41.0	Vitros	
µg/ml	8.08	6.48	9.68		
µmol/l	37.4	29.9	44.9	Roche Cobas 6000/8000	
µg/ml	8.84	7.07	10.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Carbamazepine	µmol/l	36.9	29.5	44.3	Beckman DxC	
	µg/ml	8.72	6.97	10.5		
	µmol/l	38.6	30.9	46.3	Beckman AU400/600/640/2700/5400	
	µg/ml	9.13	7.30	11.0		
	µmol/l	32.4	25.9	38.9	Abbott Architect (PETINA)	
	µg/ml	7.66	6.12	9.20		
	µmol/l	38.6	30.9	46.3	EMIT	
	µg/ml	9.13	7.30	11.0		
	µmol/l	36.7	29.4	44.0	Siemens Atellica CH	
	µg/ml	8.68	6.95	10.4		
	µmol/l	30.8	24.6	37.0	Abbott Alinity (PETINA)	
	µg/ml	7.28	5.82	8.74		
	µmol/l	38.5	30.8	46.2	Gravimetric	
	µg/ml	9.10	7.28	10.9		
	Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	30.1	24.1	36.1	Abbott Architect
		ng/ml = µg/l	25.3	20.2	30.4	BioMerieux Vidas
ng/ml = µg/l		27.1	18.4	35.8	Siemens Centaur XP/XPT/Classic	
ng/ml = µg/l		22.7	18.2	27.2	CIS RIA Coated tube	
ng/ml = µg/l		35.3	28.2	42.4	Siemens Immulite 2000/2500	
ng/ml = µg/l		35.9	28.7	43.1	Siemens Immulite 1000	
ng/ml = µg/l		24.0	19.2	28.8	Beckman Dxl800	
ng/ml = µg/l		22.6	18.1	27.1	Roche Elecsys	
ng/ml = µg/l		22.8	18.2	27.4	Diasorin Liaison	
ng/ml = µg/l		25.3	20.2	30.4	Beckman Access	
ng/ml = µg/l		37.8	30.2	45.4	Tosoh Series	
ng/ml = µg/l		28.0	22.4	33.6	Vitros ECi	
ng/ml = µg/l		22.3	17.8	26.8	Roche Cobas e601/602	
ng/ml = µg/l		22.9	18.3	27.5	Roche Cobas 4000/E411	
ng/ml = µg/l		28.1	19.1	37.1	Siemens Centaur CP	
ng/ml = µg/l		19.3	15.4	23.2	Mindray CL-2000i	
ng/ml = µg/l		24.2	19.4	29.0	Diasorin Liaison XL	
ng/ml = µg/l		27.3	21.8	32.8	Siemens Atellica IM	
ng/ml = µg/l	22.6	18.1	27.1	Roche Cobas e801		
ng/ml = µg/l	29.5	23.6	35.4	Abbott Alinity i		
Cortisol	nmol/l	538	404	673	Abbott Architect	
	µg/dl	19.4	14.5	24.3		
	nmol/l	565	424	706	BioMerieux Vidas	
	µg/dl	20.3	15.3	25.3		
	nmol/l	700	483	917	Siemens Centaur XP/XPT/Classic	
	µg/dl	25.2	17.4	33.0		
	nmol/l	514	386	643	CIS RIA	
	µg/dl	18.5	13.9	23.1		
	nmol/l	563	422	704	Siemens Immulite 2000/2500	
	µg/dl	20.3	15.2	25.4		
	nmol/l	630	473	788	Siemens Immulite 1000	
	µg/dl	22.7	17.0	28.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	596	447	745	Beckman Dxl800
	µg/dl	21.5	16.1	26.9	
	nmol/l	617	463	771	Roche Elecsys
	µg/dl	22.2	16.7	27.7	
	nmol/l	618	464	773	Diasorin Liaison
	µg/dl	22.2	16.7	27.7	
	nmol/l	652	489	815	Beckman Access
	µg/dl	23.5	17.6	29.4	
	nmol/l	646	485	808	Tosoh Series
	µg/dl	23.3	17.5	29.1	
	nmol/l	569	427	711	Vitros Eci
	µg/dl	20.5	15.4	25.6	
	nmol/l	595	446	744	Roche Cobas e601/602
	µg/dl	21.4	16.1	26.7	
	nmol/l	644	483	805	Roche Cobas 4000/E411
	µg/dl	23.2	17.4	29.0	
	nmol/l	700	483	917	Siemens Centaur CP
	µg/dl	25.2	17.4	33.0	
nmol/l	634	476	793	Roche Cobas 4000/e411 Gen II	
µg/dl	22.8	17.1	28.5		
nmol/l	586	440	733	Roche Cobas e601/602 Gen II	
µg/dl	21.1	15.8	26.4		
nmol/l	621	466	776	Roche Elecsys Gen II	
µg/dl	22.4	16.8	28.0		
nmol/l	724	543	905	Siemens Atellica IM	
µg/dl	26.1	19.5	32.7		
nmol/l	578	434	723	Roche Cobas e801	
µg/dl	20.8	15.6	26.0		
nmol/l	538	404	673	Abbott Alinity i	
µg/dl	19.4	14.5	24.3		
DHEA-S	µmol/l	12.7	10.2	15.2	Abbott Architect
	µmol/l	11.2	8.96	13.4	Siemens Immulite 2000/2500
	µmol/l	10.8	8.64	13.0	Siemens Immulite 1000
	µmol/l	10.8	8.64	13.0	Beckman Dxl800
	µmol/l	16.5	13.2	19.8	Roche Elecsys
	µmol/l	11.8	9.44	14.2	Beckman Access
	µmol/l	10.1	8.08	12.1	Diasorin Liaison
	µmol/l	10.8	7.02	14.6	Siemens Centaur XP/XPT/Classic
	µmol/l	15.7	12.6	18.8	Roche Cobas 4000/E411
	µmol/l	15.4	12.3	18.5	Roche Cobas e601/602
	µmol/l	10.2	8.16	12.2	Diasorin Liaison XL
	µmol/l	11.2	8.96	13.4	Siemens Atellica IM
µmol/l	14.7	11.8	17.6	Roche Cobas e801	
Digoxin	nmol/l	2.35	1.88	2.82	Abbott Architect (CMIA)
	ng/ml	1.84	1.47	2.21	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.72	2.18	3.26	BioMerieux Vidas
	ng/ml	2.12	1.70	2.54	
	nmol/l	3.11	2.39	3.83	Siemens Centaur XP/XPT/Classic
	ng/ml	2.43	1.87	2.99	
	nmol/l	2.75	2.20	3.30	Siemens Dimension
	ng/ml	2.15	1.72	2.58	
	nmol/l	2.88	2.30	3.46	Siemens Immulite 2000/2500
	ng/ml	2.25	1.80	2.70	
	nmol/l	2.78	2.22	3.34	Beckman Dxl800
	ng/ml	2.17	1.73	2.61	
	nmol/l	2.98	2.38	3.58	Roche Integra
	ng/ml	2.33	1.86	2.80	
	nmol/l	2.73	2.18	3.28	Roche Cobas e601/602
	ng/ml	2.13	1.70	2.56	
	nmol/l	2.81	2.25	3.37	Beckman AU400/600/640/2700/5400
	ng/ml	2.19	1.76	2.62	
	nmol/l	2.78	2.22	3.34	Roche Cobas 4000/E411
	ng/ml	2.17	1.73	2.61	
	nmol/l	2.29	1.83	2.75	Abbott Architect (PETINA)
	ng/ml	1.79	1.43	2.15	
nmol/l	2.77	2.22	3.32	Roche Cobas e801	
ng/ml	2.16	1.73	2.59		
nmol/l	3.13	2.50	3.76	Siemens Atellica IM	
ng/ml	2.44	1.95	2.93		
nmol/l	2.82	2.26	3.38	Siemens Atellica CH	
ng/ml	2.20	1.77	2.63		
nmol/l	2.49	1.99	2.99	Abbott Alinity (PETINA)	
ng/ml	1.94	1.55	2.33		
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	120	96.0	144	Abbott Architect
	ng/ml = µg/l	91.8	73.4	110	BioMerieux Vidas
	ng/ml = µg/l	94.0	70.5	118	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	107	85.6	128	Siemens Dimension
	ng/ml = µg/l	98.6	78.9	118	Siemens Immulite 2000/2500
	ng/ml = µg/l	86.9	69.5	104	Siemens Immulite 1000
	ng/ml = µg/l	76.0	60.8	91.2	Beckman Dxl800
	ng/ml = µg/l	120	96.0	144	Roche Elecsys/Cobas e411
	ng/ml = µg/l	102	81.6	122	Diasorin Liaison
	ng/ml = µg/l	118	94.4	142	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	79.5	63.6	95.4	Beckman Access
	ng/ml = µg/l	76.1	60.9	91.3	Tosoh Series
	ng/ml = µg/l	71.3	57.0	85.6	Vitros ECi
	ng/ml = µg/l	122	97.6	146	Roche Cobas 4000/c311

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	91.6	73.3	110	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	86.8	65.1	109	Siemens Centaur CP
	ng/ml = µg/l	110	88.0	132	Diasorin Liaison XL
	ng/ml = µg/l	121	96.8	145	Abbott Alinity i
	ng/ml = µg/l	95.7	76.6	115	Siemens Atellica IM
	ng/ml = µg/l	119	95.2	143	Roche Cobas e801
Folate	nmol/l	10.6	8.06	13.1	Abbott Architect
	ng/ml	4.67	3.55	5.79	
	nmol/l	22.5	14.6	30.4	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	9.92	6.45	13.4	
	nmol/l	9.30	7.07	11.5	Siemens Immulite 2000
	ng/ml	4.10	3.12	5.08	
	nmol/l	12.5	9.50	15.5	Beckman Dxl 600 / 800 - A14208
	ng/ml	5.51	4.19	6.83	
	nmol/l	12.7	9.65	15.7	Beckman Access
	ng/ml	5.60	4.26	6.94	
	nmol/l	7.68	5.84	9.52	Vitros ECI
	ng/ml	3.39	2.58	4.20	
	nmol/l	7.26	5.52	9.00	Siemens Dimension
	ng/ml	3.20	2.43	3.97	
	nmol/l	12.7	9.65	15.7	Beckman Dxl 600 / 800 - A98032
	ng/ml	5.60	4.26	6.94	
	nmol/l	28.0	18.2	37.8	Siemens Centaur CP (enhanced kit)
	ng/ml	12.3	8.00	16.6	
	nmol/l	12.7	9.65	15.7	Roche Folate III - 04476433
	ng/ml	5.60	4.26	6.94	
	nmol/l	12.4	9.42	15.4	Roche Elecsys Folate
	ng/ml	5.47	4.15	6.79	
nmol/l	12.3	9.35	15.3	Roche Folate III - 07559992	
ng/ml	5.42	4.12	6.72		
nmol/l	21.1	16.0	26.2	Siemens Atellica IM	
ng/ml	9.31	7.06	11.6		
nmol/l	11.4	8.66	14.1	Abbott Alinity i	
ng/ml	5.03	3.82	6.24		
nmol/l	12.4	9.42	15.4	Roche Cobas e801	
ng/ml	5.47	4.15	6.79		
Free T3	pmol/l	10.2	7.65	12.8	Abbott Architect, 2 point calibration
	ng/dl	0.663	0.497	0.829	
	pg/ml	6.64	4.98	8.30	
	pmol/l	11.7	8.78	14.6	BioMerieux Vidas
	ng/dl	0.761	0.571	0.951	
	pg/ml	7.62	5.72	9.52	
	pmol/l	11.3	6.78	15.8	Siemens Centaur XP/XPT/Classic
	ng/dl	0.735	0.441	1.03	
	pg/ml	7.36	4.42	10.3	
	pmol/l	9.38	7.04	11.7	Siemens Immulite 2000/2500
	ng/dl	0.610	0.458	0.762	
	pg/ml	6.11	4.58	7.64	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	9.50	7.13	11.9	Siemens Immulite 1000
	ng/dl	0.618	0.463	0.773	
	pg/ml	6.18	4.64	7.72	
	pmol/l	8.30	6.23	10.4	Beckman Dxl800
	ng/dl	0.540	0.405	0.675	
	pg/ml	5.40	4.06	6.74	
	pmol/l	13.2	9.90	16.5	Roche Elecsys
	ng/dl	0.858	0.644	1.07	
	pg/ml	8.59	6.44	10.7	
	pmol/l	14.0	10.5	17.5	Diasorin Liaison
	ng/dl	0.910	0.683	1.14	
	pg/ml	9.11	6.84	11.4	
	pmol/l	9.44	7.08	11.8	Beckman Access
	ng/dl	0.614	0.460	0.768	
	pg/ml	6.15	4.61	7.69	
	pmol/l	15.8	11.9	19.8	Tosoh Series
	ng/dl	1.03	0.774	1.29	
	pg/ml	10.3	7.75	12.9	
	pmol/l	27.0	20.3	33.8	Vitros ECi
	ng/dl	1.76	1.32	2.20	
	pg/ml	17.6	13.2	22.0	
	pmol/l	13.1	9.83	16.4	Roche Cobas 4000/E411
	ng/dl	0.852	0.639	1.07	
	pg/ml	8.53	6.40	10.7	
	pmol/l	13.4	10.1	16.8	Roche Cobas e601/602
	ng/dl	0.871	0.657	1.09	
	pg/ml	8.72	6.58	10.9	
	pmol/l	11.0	6.60	15.4	Siemens Centaur CP
	ng/dl	0.715	0.429	1.00	
	pg/ml	7.16	4.30	10.0	
pmol/l	11.2	8.40	14.0	Mindray CL-2000i	
ng/dl	0.728	0.546	0.910		
pg/ml	7.29	5.47	9.11		
pmol/l	14.9	11.2	18.6	Diasorin Liaison XL	
ng/dl	0.969	0.728	1.21		
pg/ml	9.70	7.29	12.1		
pmol/l	11.3	8.48	14.1	Siemens Atellica IM	
ng/dl	0.735	0.551	0.919		
pg/ml	7.36	5.52	9.20		
pmol/l	10.4	7.80	13.0	Abbott Alinity, 2 point cal	
ng/dl	0.676	0.507	0.845		
pg/ml	6.77	5.08	8.46		
pmol/l	10.1	7.58	12.6	Abbott Architect, 6 point calibration	
ng/dl	0.657	0.493	0.821		
pg/ml	6.58	4.93	8.23		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	13.1	9.83	16.4	Roche Cobas e801
	ng/dl	0.852	0.639	1.07	
	pg/ml	8.53	6.40	10.7	
	pmol/l	10.0	7.50	12.5	Abbott Alinity, 6 point cal
	ng/dl	0.650	0.488	0.812	
	pg/ml	6.51	4.88	8.14	
Free T4	pmol/l	20.5	15.4	25.6	Abbott Architect
	ng/dl	1.60	1.20	2.00	
	pg/ml	16.0	12.0	20.0	
	pmol/l	20.7	15.5	25.9	Siemens Centaur XP/XPT/Classic
	ng/dl	1.61	1.21	2.01	
	pg/ml	16.1	12.1	20.1	
	pmol/l	28.9	21.7	36.1	CIS RIA Coated tube
	ng/dl	2.25	1.69	2.81	
	pg/ml	22.5	16.9	28.1	
	pmol/l	30.1	22.6	37.6	Siemens Immulite 2000/2500
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	pmol/l	30.9	23.2	38.6	Siemens Immulite 1000
	ng/dl	2.41	1.81	3.01	
	pg/ml	24.1	18.1	30.1	
	pmol/l	23.2	17.4	29.0	Beckman Dxl800
	ng/dl	1.81	1.36	2.26	
	pg/ml	18.1	13.6	22.6	
	pmol/l	27.4	20.6	34.3	Roche Elecsys
	ng/dl	2.14	1.61	2.67	
	pg/ml	21.4	16.1	26.7	
	pmol/l	29.8	22.4	37.3	Diasorin Liaison
	ng/dl	2.32	1.75	2.89	
	pg/ml	23.2	17.5	28.9	
pmol/l	23.8	17.9	29.8	Beckman Access	
ng/dl	1.86	1.40	2.32		
pg/ml	18.6	14.0	23.2		
pmol/l	28.1	21.1	35.1	Tosoh Series	
ng/dl	2.19	1.65	2.73		
pg/ml	21.9	16.5	27.3		
pmol/l	57.8	43.4	72.3	Vitros ECi	
ng/dl	4.51	3.39	5.63		
pg/ml	45.1	33.9	56.3		
pmol/l	27.0	20.3	33.8	Roche Cobas e601/602	
ng/dl	2.11	1.58	2.64		
pg/ml	21.1	15.8	26.4		
pmol/l	22.3	16.7	27.9	Immunotech IRMA	
ng/dl	1.74	1.30	2.18		
pg/ml	17.4	13.0	21.8		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	27.1	20.3	33.9	Roche Cobas 4000/E411
	ng/dl	2.11	1.58	2.64	
	pg/ml	21.1	15.8	26.4	
	pmol/l	21.4	16.1	26.8	Monobind Inc. ELISA / CLIA
	ng/dl	1.67	1.26	2.08	
	pg/ml	16.7	12.6	20.8	
	pmol/l	29.9	22.4	37.4	Biomerieux Vidas FT4N Kit
	ng/dl	2.33	1.75	2.91	
	pg/ml	23.3	17.5	29.1	
	pmol/l	24.8	18.6	31.0	Siemens Dimension Exl LOCI
	ng/dl	1.93	1.45	2.41	
	pg/ml	19.3	14.5	24.1	
	pmol/l	21.0	15.8	26.3	Siemens Centaur CP
	ng/dl	1.64	1.23	2.05	
	pg/ml	16.4	12.3	20.5	
	pmol/l	25.9	19.4	32.4	Mindray CL-2000i
	ng/dl	2.02	1.51	2.53	
	pg/ml	20.2	15.1	25.3	
	pmol/l	33.2	24.9	41.5	Diasorin Liaison XL
	ng/dl	2.59	1.94	3.24	
	pg/ml	25.9	19.4	32.4	
	pmol/l	21.2	15.9	26.5	Siemens Atellica IM
	ng/dl	1.65	1.24	2.06	
	pg/ml	16.5	12.4	20.6	
pmol/l	20.0	15.0	25.0	Abbott Alinity i	
ng/dl	1.56	1.17	1.95		
pg/ml	15.6	11.7	19.5		
pmol/l	28.0	21.0	35.0	Roche Cobas e801	
ng/dl	2.18	1.64	2.72		
pg/ml	21.8	16.4	27.2		
FSH	mU/ml	26.9	21.5	32.3	Abbott Architect
	mU/ml	30.6	24.5	36.7	BioMerieux Vidas
	mU/ml	35.6	26.7	44.5	Siemens Centaur XP/XPT/Classic
	mU/ml	26.1	20.9	31.3	Siemens Immulite 2000/2500
	mU/ml	26.8	21.4	32.2	Siemens Immulite 1000
	mU/ml	30.9	24.7	37.1	Beckman Dxl800
	mU/ml	26.2	21.0	31.4	Roche/BM Elecsys
	mU/ml	39.9	31.9	47.9	Diasorin Liaison
	mU/ml	31.5	25.2	37.8	Beckman Access
	mU/ml	31.7	25.4	38.0	Tosoh Series
	mU/ml	22.9	18.3	27.5	Vitros ECi
	mU/ml	28.2	22.6	33.8	Roche Cobas 4000/E411
	mU/ml	26.0	20.8	31.2	Roche Cobas e601/602
	mU/ml	24.1	19.3	28.9	Fujirebio Lumipulse G Series
	mU/ml	29.5	22.1	36.9	Siemens Centaur CP
	mU/ml	32.1	25.7	38.5	Mindray CL-2000i

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	45.8	36.6	55.0	Diasorin Liaison XL
	mU/ml	37.4	29.9	44.9	Siemens Atellica IM
	mU/ml	26.4	21.1	31.7	Abbott Alinity i
	mU/ml	27.1	21.7	32.5	Roche Cobas e801
Gentamicin	µmol/l	8.09	6.47	9.71	Roche Integra
	µg/ml	3.87	3.09	4.65	
	µmol/l	8.54	6.06	11.0	Siemens Centaur XP/XPT/Classic
	µg/ml	4.08	2.90	5.26	
	µmol/l	8.04	6.43	9.65	Abbott Architect (CMIA)
	µg/ml	3.84	3.07	4.61	
	µmol/l	6.41	5.13	7.69	Roche Cobas 6000/8000 Online KIMS
	µg/ml	3.06	2.45	3.67	
	µmol/l	10.1	8.08	12.1	Beckman DxC
	µg/ml	4.83	3.86	5.80	
	µmol/l	7.21	5.77	8.65	Roche Cobas 6000/8000 CEDIA
	µg/ml	3.45	2.76	4.14	
	µmol/l	9.22	7.38	11.1	EMIT
	µg/ml	4.41	3.53	5.29	
	µmol/l	8.14	6.51	9.77	Siemens Atellica CH
	µg/ml	3.89	3.11	4.67	
µmol/l	8.62	6.90	10.3	Abbott Alinity (PETINA)	
µg/ml	4.12	3.30	4.94		
µmol/l	8.16	6.53	9.79	Gravimetric	
µg/ml	3.90	3.12	4.68		
Growth Hormone (GH)	µU/ml	19.2	15.4	23.0	Siemens Immulite 2000/2500
	ng/ml	6.39	5.13	7.65	
	µU/ml	17.0	13.6	20.4	Siemens Immulite 1000
	ng/ml	5.66	4.53	6.79	
	µU/ml	14.9	11.9	17.9	Beckman Dxl800
	ng/ml	4.96	3.96	5.96	
	µU/ml	16.2	13.0	19.4	Beckman Access
	ng/ml	5.39	4.33	6.45	
	µU/ml	19.0	15.2	22.8	Tosoh Series
	ng/ml	6.33	5.06	7.60	
	µU/ml	15.3	12.2	18.4	Diasorin Liaison
	ng/ml	5.09	4.06	6.12	
	µU/ml	17.5	14.0	21.0	Roche Cobas 4000/E411
	ng/ml	5.83	4.66	7.00	
	µU/ml	17.3	13.8	20.8	Roche Cobas e601/602
	ng/ml	5.76	4.60	6.92	
	µU/ml	17.6	14.1	21.1	IDS iSYS
	ng/ml	5.86	4.70	7.02	
µU/ml	16.4	13.1	19.7	Diasorin Liaison XL	
ng/ml	5.46	4.36	6.56		
µU/ml	17.7	14.2	21.2	Roche Cobas e801	
ng/ml	5.89	4.73	7.05		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Immunoglobulin E	KIU/l = IU/ml	103	82.4	124	Abbott Architect
	KIU/l = IU/ml	100	80.0	120	BioMerieux Vidas
	KIU/l = IU/ml	114	68.4	160	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	117	93.6	140	Siemens Immulite 2000/2500
	KIU/l = IU/ml	125	100	150	Siemens Immulite 1000
	KIU/l = IU/ml	129	103	155	Roche Elecsys
	KIU/l = IU/ml	117	93.6	140	Pharmacia Unicap
	KIU/l = IU/ml	107	85.6	128	Tosoh Series
	KIU/l = IU/ml	133	106	160	Roche Cobas 4000/E411
	KIU/l = IU/ml	128	102	154	Roche Cobas e601/602
	KIU/l = IU/ml	121	72.6	169	Siemens Centaur CP
	KIU/l = IU/ml	111	88.8	133	Siemens Atellica IM
	KIU/l = IU/ml	130	104	156	Roche Cobas e801
	KIU/l = IU/ml	103	82.4	124	Abbott Alinity i
Insulin	mU/l	14.5	10.9	18.1	Siemens Centaur XP/XPT/Classic
	µU/ml	14.5	10.9	18.1	
	mU/l	13.9	10.4	17.4	Roche Elecsys
	µU/ml	13.9	10.4	17.4	
	mU/l	12.4	9.30	15.5	Beckman Access
	µU/ml	12.4	9.30	15.5	
	mU/l	12.5	9.38	15.6	Abbott Architect
	µU/ml	12.5	9.38	15.6	
	mU/l	14.5	10.9	18.1	Tosoh Series
	µU/ml	14.5	10.9	18.1	
	mU/l	14.1	10.6	17.6	Roche Cobas 4000/E411
	µU/ml	14.1	10.6	17.6	
	mU/l	11.7	8.78	14.6	Beckman Dxl 600/800
	µU/ml	11.7	8.78	14.6	
	mU/l	16.8	12.6	21.0	Diasorin Liaison
	µU/ml	16.8	12.6	21.0	
	mU/l	13.9	10.4	17.4	Roche Cobas 6000/8000
	µU/ml	13.9	10.4	17.4	
	mU/l	12.9	9.68	16.1	Fujirebio Lumipulse G Series
	µU/ml	12.9	9.68	16.1	
mU/l	14.4	10.8	18.0	Siemens Centaur CP	
µU/ml	14.4	10.8	18.0		
mU/l	18.8	14.1	23.5	Diasorin Liaison XL	
µU/ml	18.8	14.1	23.5		
mU/l	14.9	11.2	18.6	Siemens Atellica IM	
µU/ml	14.9	11.2	18.6		
mU/l	11.2	8.40	14.0	Abbott Alinity i	
µU/ml	11.2	8.40	14.0		
Luteinising Hormone (LH)	mU/ml	29.3	23.4	35.2	Abbott Architect
	mU/ml	35.8	28.6	43.0	BioMerieux Vidas
	mU/ml	34.6	26.6	42.6	Siemens Centaur XP/XPT/Classic
	mU/ml	51.1	40.9	61.3	Siemens Immulite 2000

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Luteinising Hormone (LH)	mU/ml	52.8	42.2	63.4	Siemens Immulite 1000
	mU/ml	29.2	23.4	35.0	Beckman DxI800
	mU/ml	36.9	29.5	44.3	Roche Elecsys
	mU/ml	46.5	37.2	55.8	Diasorin Liaison
	mU/ml	29.4	23.5	35.3	Beckman Access
	mU/ml	33.0	26.4	39.6	Tosoh Series
	mU/ml	46.8	37.4	56.2	Vitros ECi
	mU/ml	38.4	30.7	46.1	Roche Cobas 4000/E411
	mU/ml	38.4	30.7	46.1	Roche Cobas e601/602
	mU/ml	32.4	25.9	38.9	Fujirebio Lumipulse G Series
	mU/ml	34.4	26.5	42.3	Siemens Centaur CP
	mU/ml	38.6	30.9	46.3	Mindray CL-2000i
	mU/ml	46.2	37.0	55.4	Diasorin Liaison XL
	mU/ml	35.9	28.7	43.1	Siemens Atellica IM
	mU/ml	28.8	23.0	34.6	Abbott Alinity i
	mU/ml	38.8	31.0	46.6	Roche Cobas e801
Oestradiol	pmol/l	681	545	817	Abbott Architect
	pg/ml	185	148	222	
	pmol/l	1217	974	1460	BioMerieux Vidas
	pg/ml	331	265	397	
	pmol/l	994	596	1392	Siemens Centaur XP/XPT/Classic
	pg/ml	270	162	378	
	pmol/l	1034	827	1241	Siemens Immulite 2000/2500
	pg/ml	281	225	337	
	pmol/l	1141	913	1369	Siemens Immulite 1000
	pg/ml	310	248	372	
	pmol/l	827	662	992	Beckman DxI800
	pg/ml	225	180	270	
	pmol/l	726	581	871	Roche Elecsys (Estradiol II)
	pg/ml	197	158	236	
	pmol/l	898	718	1078	Beckman Access
	pg/ml	244	195	293	
	pmol/l	849	679	1019	Tosoh (E2)
	pg/ml	231	185	277	
	pmol/l	1066	853	1279	Vitros ECi
	pg/ml	290	232	348	
pmol/l	750	600	900	Roche Cobas e601/602 (Estradiol II)	
pg/ml	204	163	245		
pmol/l	737	590	884	Roche Cobas 4000/E411 (Estradiol II)	
pg/ml	200	160	240		
pmol/l	985	591	1379	Siemens Centaur XP/XPT/Classic Enhanced (eE2)	
pg/ml	268	161	375		
pmol/l	758	606	910	Tosoh (iE2-hsE2)	
pg/ml	206	165	247		
pmol/l	1031	619	1443	Siemens Centaur CP	
pg/ml	280	168	392		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	963	578	1348	Siemens Centaur CP Enhanced (eE2)
	pg/ml	262	157	367	
	pmol/l	760	608	912	Roche Cobas e601/602 (Estradiol III)
	pg/ml	207	165	249	
	pmol/l	741	593	889	Roche Elecsys (Estradiol III)
	pg/ml	202	161	243	
	pmol/l	725	580	870	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	197	158	236	
	pmol/l	612	490	734	Diasorin Liaison XL
	pg/ml	166	133	199	
	pmol/l	834	667	1001	Beckman Access / Access 2 Sensitive B84493
	pg/ml	227	181	273	
	pmol/l	759	607	911	Beckman Dxl600/800 Sensitive B84493
	pg/ml	206	165	247	
	pmol/l	1016	813	1219	Siemens Atellica IM
	pg/ml	276	221	331	
pmol/l	683	546	820	Abbott Alinity i	
pg/ml	186	149	223		
pmol/l	749	599	899	Roche Cobas e801 (Estradiol III)	
pg/ml	204	163	245		
Paracetamol	mmol/l	0.326	0.261	0.391	Abbott Architect
	mg/l	49.3	39.5	59.1	
	mmol/l	0.330	0.264	0.396	EMIT
	mg/l	49.9	39.9	59.9	
	mmol/l	0.348	0.280	0.420	Beckman AU Instruments
	mg/l	52.7	42.4	63.5	
	mmol/l	0.320	0.260	0.380	Roche Cobas c501/502/503/701/702
	mg/l	48.4	39.3	57.5	
	mmol/l	0.348	0.280	0.420	Gravimetric
	mg/l	52.7	42.4	63.5	
Phenobarbital	µmol/l	78.2	62.6	93.8	Abbott Architect (CMIA)
	µg/ml	18.1	14.5	21.7	
	µmol/l	75.0	60.0	90.0	Roche Cobas e601/602/801
	µg/ml	17.4	13.9	20.9	
	µmol/l	78.5	62.8	94.2	Siemens Immulite 2000/2500
	µg/ml	18.2	14.6	21.8	
	µmol/l	73.1	58.5	87.7	Beckman AU400/600/640/2700/5400
	µg/ml	17.0	13.6	20.4	
	µmol/l	102	73.4	131	Siemens Centaur XP/XPT/Classic
	µg/ml	23.7	17.1	30.3	
	µmol/l	76.9	61.5	92.3	Roche Integra
	µg/ml	17.8	14.3	21.3	
	µmol/l	76.9	61.5	92.3	Siemens Immulite 1000
	µg/ml	17.8	14.3	21.3	
µmol/l	71.0	56.8	85.2	Abbott Architect (PETINA)	
µg/ml	16.5	13.2	19.8		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Phenobarbital	µmol/l	75.4	60.3	90.5	Siemens Atellica CH	
	µg/ml	17.5	14.0	21.0		
	µmol/l	74.0	59.2	88.8	Abbott Alinity (PETINA)	
	µg/ml	17.2	13.7	20.7		
	µmol/l	77.6	62.1	93.1	Gravimetric	
	µg/ml	18.0	14.4	21.6		
	Phenytoin	µmol/l	67.5	54.0	81.0	Abbott Architect
		µg/ml	17.0	13.6	20.4	
	µmol/l	75.9	59.2	92.6	Siemens Centaur XP/XPT/Classic	
	µg/ml	19.2	15.0	23.4		
	µmol/l	72.0	57.6	86.4	Siemens Dimension	
	µg/ml	18.2	14.5	21.9		
	µmol/l	63.2	50.6	75.8	Siemens Immulite 2000/2500	
	µg/ml	16.0	12.8	19.2		
	µmol/l	64.7	51.8	77.6	Roche Integra	
	µg/ml	16.3	13.1	19.5		
	µmol/l	70.3	56.2	84.4	Vitros	
	µg/ml	17.8	14.2	21.4		
	µmol/l	65.1	52.1	78.1	Roche Cobas 6000/8000	
	µg/ml	16.4	13.2	19.6		
	µmol/l	69.0	55.2	82.8	EMIT	
	µg/ml	17.4	13.9	20.9		
	µmol/l	66.6	53.3	79.9	Abbott Alinity	
	µg/ml	16.8	13.5	20.1		
	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	28.1	22.5	33.7	Abbott Architect	
	ng/ml	8.80	7.04	10.6		
	nmol/l	40.9	32.7	49.1	BioMerieux Vidas	
	ng/ml	12.8	10.2	15.4		
	nmol/l	24.2	16.9	31.5	Siemens Centaur XP/XPT/Classic	
	ng/ml	7.57	5.30	9.84		
	nmol/l	26.4	21.1	31.7	Siemens Immulite 2000/2500	
	ng/ml	8.26	6.60	9.92		
	nmol/l	31.2	25.0	37.4	Siemens Immulite 1000	
	ng/ml	9.77	7.83	11.7		
	nmol/l	32.3	25.8	38.8	Beckman Dxl Prog Cal 33555	
	ng/ml	10.1	8.08	12.1		
	nmol/l	33.5	26.8	40.2	Roche Elecsys (Prog. II)	
	ng/ml	10.5	8.39	12.6		
nmol/l	33.2	26.6	39.8	Beckman Access Prog Cal 33555		
ng/ml	10.4	8.33	12.5			
nmol/l	39.8	31.8	47.8	Tosoh Series		
ng/ml	12.5	9.95	15.1			

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	34.7	27.8	41.6	Vitros ECi
	ng/ml	10.9	8.70	13.1	
	nmol/l	34.2	27.4	41.0	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	10.7	8.58	12.8	
	nmol/l	34.5	27.6	41.4	Roche Cobas e601/602 (Prog. II)
	ng/ml	10.8	8.64	13.0	
	nmol/l	28.0	22.4	33.6	Diasorin Liaison
	ng/ml	8.76	7.01	10.5	
	nmol/l	29.7	23.8	35.6	Beckman Dxl Prog DE Cal A80773
	ng/ml	9.30	7.45	11.2	
	nmol/l	30.0	24.0	36.0	Beckman Access Prog DE Cal A80773
	ng/ml	9.39	7.51	11.3	
	nmol/l	26.4	18.5	34.3	Siemens Centaur CP
	ng/ml	8.26	5.78	10.7	
	nmol/l	34.6	27.7	41.5	Roche Cobas e601/602 (Prog. III)
	ng/ml	10.8	8.67	12.9	
	nmol/l	34.2	27.4	41.0	Roche Elecsys (Prog. III)
	ng/ml	10.7	8.58	12.8	
nmol/l	34.1	27.3	40.9	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	10.7	8.54	12.9		
nmol/l	25.7	20.6	30.8	Abbott Alinity i	
ng/ml	8.04	6.45	9.63		
nmol/l	33.5	26.8	40.2	Roche Cobas e801 (Prog. III)	
ng/ml	10.5	8.39	12.6		
Prolactin	µU/ml	659	527	791	Abbott Architect
	µU/ml	797	638	956	BioMerieux Vidas
	µU/ml	551	430	672	Siemens Centaur XP/XPT/Classic
	µU/ml	515	412	618	Siemens Immulite 2000/2500
	µU/ml	567	454	680	Siemens Immulite 1000
	µU/ml	543	434	652	Beckman Dxl800
	µU/ml	650	520	780	Roche Elecsys
	µU/ml	691	553	829	Diasorin Liaison
	µU/ml	564	451	677	Beckman Access
	µU/ml	606	485	727	Tosoh Series
	µU/ml	563	450	676	Vitros ECi
	µU/ml	634	507	761	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	615	492	738	Immunotech IRMA
	µU/ml	659	527	791	Roche Cobas 4000/E411
	µU/ml	645	516	774	Roche Cobas e601/602
	µU/ml	746	597	895	Fujirebio Lumipulse G Series
	µU/ml	518	404	632	Siemens Centaur CP
	µU/ml	787	630	944	Mindray CL-2000i
	µU/ml	710	568	852	Diasorin Liaison XL
	µU/ml	546	437	655	Siemens Atellica IM
µU/ml	653	522	784	Abbott Alinity i	
µU/ml	621	497	745	Roche Cobas e801 PRL II	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	7.63	5.72	9.54	Abbott Architect
	ng/ml = µg/l	7.78	5.84	9.73	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	6.39	4.79	7.99	Siemens Immulite 2000/2500
	ng/ml = µg/l	6.25	4.69	7.81	Siemens Immulite 1000
	ng/ml = µg/l	8.89	6.67	11.1	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	7.55	5.66	9.44	Roche Elecsys
	ng/ml = µg/l	4.92	3.69	6.15	Diasorin Liaison
	ng/ml = µg/l	9.24	6.93	11.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	6.89	5.17	8.61	Tosoh Series
	ng/ml = µg/l	7.47	5.60	9.34	Roche Cobas 4000/E411
	ng/ml = µg/l	7.44	5.58	9.30	Roche Cobas e601/602
	ng/ml = µg/l	8.00	6.00	10.0	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	8.97	6.73	11.2	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	6.92	5.19	8.65	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	6.44	4.83	8.05	Fujirebio Lumipulse G Series
	ng/ml = µg/l	5.18	3.89	6.48	Diasorin Liaison XL
ng/ml = µg/l	7.84	5.88	9.80	Siemens Atellica IM	
ng/ml = µg/l	7.74	5.81	9.68	Abbott Alinity i	
ng/ml = µg/l	7.32	5.49	9.15	Roche Cobas e801	
PSA Total	ng/ml = µg/l	6.96	5.22	8.70	Abbott Architect
	ng/ml = µg/l	8.23	6.17	10.3	BioMerieux Vidas
	ng/ml = µg/l	8.89	6.67	11.1	bioMerieux VIDAS TPSA
	ng/ml = µg/l	8.23	6.17	10.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	8.31	6.23	10.4	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	8.83	6.62	11.0	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	8.09	6.07	10.1	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	8.65	6.49	10.8	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	6.44	4.83	8.05	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	9.01	6.76	11.3	Roche Elecsys
	ng/ml = µg/l	6.35	4.76	7.94	Diasorin Liaison
	ng/ml = µg/l	8.82	6.62	11.0	Beckman Access standardised to Hybritech
	ng/ml = µg/l	9.02	6.77	11.3	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	6.85	5.14	8.56	Tosoh Series
	ng/ml = µg/l	9.13	6.85	11.4	Vitros ECi
	ng/ml = µg/l	9.08	6.81	11.4	CIS RIA Coated tube
	ng/ml = µg/l	9.49	7.12	11.9	Roche Cobas 4000/E411
	ng/ml = µg/l	9.22	6.92	11.5	Roche Cobas e601/602
	ng/ml = µg/l	6.60	4.95	8.25	Fujirebio Lumipulse G Series
	ng/ml = µg/l	9.02	6.77	11.3	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	7.69	5.77	9.61	Siemens Centaur CP
	ng/ml = µg/l	6.02	4.52	7.53	Diasorin Liaison XL
ng/ml = µg/l	8.52	6.39	10.7	Siemens Atellica IM	
ng/ml = µg/l	7.22	5.42	9.03	Abbott Alinity i	
ng/ml = µg/l	9.00	6.75	11.3	Roche Cobas e801	
Salicylic Acid	mmol/l	1.16	0.928	1.39	Roche Integra
	mg/dl	16.0	12.8	19.2	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Salicylic Acid	mmol/l	1.18	0.944	1.42	Abbott Architect
	mg/dl	16.3	13.0	19.6	
	mmol/l	1.21	0.968	1.45	EMIT
	mg/dl	16.7	13.4	20.0	
	mmol/l	1.15	0.920	1.38	Roche Cobas c501/502/503
	mg/dl	15.9	12.7	19.1	
	mmol/l	1.22	0.980	1.46	Gravimetric
	mg/dl	16.9	13.5	20.2	
SHBG	nmol/l	39.3	31.4	47.2	Siemens Centaur XP/XPT/Classic
	nmol/l	37.7	30.2	45.2	Siemens Immulite 1000
	nmol/l	37.7	30.2	45.2	Siemens Immulite 2000/2500
	nmol/l	36.9	29.5	44.3	Abbott Architect
	nmol/l	37.7	30.2	45.2	Beckman DxI800
	nmol/l	36.2	29.0	43.4	Siemens Atellica IM
	nmol/l	34.3	27.4	41.2	Roche analysers - 413417/15
	nmol/l	35.0	28.0	42.0	Roche Cobas e801 - 413429
	nmol/l	37.4	29.9	44.9	Abbott Alinity i
T Uptake	%U	32.6	26.7	38.5	Siemens Immulite 2000
Testosterone	nmol/l	13.0	10.4	15.6	Abbott Architect
	ng/ml	3.74	3.00	4.48	
	ng/dl	374	300	448	
	nmol/l	9.90	7.92	11.9	BioMerieux Vidas
	ng/ml	2.85	2.28	3.42	
	ng/dl	285	228	342	
	nmol/l	13.8	9.66	17.9	Siemens Centaur XP/XPT/Classic
	ng/ml	3.97	2.78	5.16	
	ng/dl	397	278	516	
	nmol/l	16.1	12.9	19.3	Siemens Immulite 2000/2500
	ng/ml	4.64	3.72	5.56	
	ng/dl	464	372	556	
	nmol/l	19.5	15.6	23.4	Siemens Immulite 1000
	ng/ml	5.62	4.49	6.75	
	ng/dl	562	449	675	
	nmol/l	11.7	9.36	14.0	Beckman DxI800
	ng/ml	3.37	2.70	4.04	
	ng/dl	337	270	404	
	nmol/l	12.9	10.3	15.5	Beckman Access
	ng/ml	3.72	2.97	4.47	
ng/dl	372	297	447		
nmol/l	16.4	13.1	19.7	Tosoh Series	
ng/ml	4.72	3.77	5.67		
ng/dl	472	377	567		
nmol/l	17.3	13.8	20.8	Vitros Eci	
ng/ml	4.98	3.97	5.99		
ng/dl	498	397	599		
nmol/l	14.0	11.2	16.8	Roche Cobas e601/602 Test II	
ng/ml	4.03	3.23	4.83		
ng/dl	403	323	483		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	13.8	11.0	16.6	Roche Elecsys Test II
	ng/ml	3.97	3.17	4.77	
	ng/dl	397	317	477	
	nmol/l	14.0	11.2	16.8	Roche Cobas 4000/e411 Test II
	ng/ml	4.03	3.23	4.83	
	ng/dl	403	323	483	
	nmol/l	12.9	10.3	15.5	Abbott Architect 2nd Generation
	ng/ml	3.72	2.97	4.47	
	ng/dl	372	297	447	
	nmol/l	8.93	7.14	10.7	Boditech Med Inc i-CHROMA
	ng/ml	2.57	2.06	3.08	
	ng/dl	257	206	308	
	nmol/l	9.95	7.96	11.9	BioMerieux Vidas Testosterone II
	ng/ml	2.87	2.29	3.45	
	ng/dl	287	229	345	
	nmol/l	19.5	15.6	23.4	Mindray CL-2000i
	ng/ml	5.62	4.49	6.75	
	ng/dl	562	449	675	
	nmol/l	13.7	9.59	17.8	Siemens Centaur TST II
	ng/ml	3.95	2.77	5.13	
ng/dl	395	277	513		
nmol/l	5.87	4.70	7.04	Diasorin Liaison XL	
ng/ml	1.69	1.35	2.03		
ng/dl	169	135	203		
nmol/l	13.5	10.8	16.2	Siemens Atellica IM	
ng/ml	3.89	3.11	4.67		
ng/dl	389	311	467		
nmol/l	14.1	11.3	16.9	Roche Cobas e801 Test II	
ng/ml	4.06	3.25	4.87		
ng/dl	406	325	487		
nmol/l	13.4	10.7	16.1	Abbott Alinity i	
ng/ml	3.86	3.08	4.64		
ng/dl	386	308	464		
Theophylline	µmol/l	80.3	64.2	96.4	Siemens Centaur XP/XPT/Classic
	µg/ml	14.5	11.6	17.4	
	µmol/l	83.8	67.0	101	Roche Integra
	µg/ml	15.1	12.1	18.1	
	µmol/l	73.5	58.8	88.2	Abbott Architect (CMIA)
	µg/ml	13.2	10.6	15.8	
	µmol/l	77.2	61.8	92.6	Roche Cobas 6000/8000
	µg/ml	13.9	11.1	16.7	
	µmol/l	81.6	65.3	97.9	Beckman AU400/600/640/2700/5400
	µg/ml	14.7	11.8	17.6	
	µmol/l	83.8	67.0	101	Gravimetric
	µg/ml	15.1	12.1	18.2	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroglobulin	ng/ml	13.3	9.98	16.6	Siemens Immulite 1000
	ng/ml	15.5	11.6	19.4	Siemens Immulite 2000
	ng/ml	40.6	30.5	50.8	Roche Elecsys
	ng/ml	32.8	24.6	41.0	Beckman Dxl800
	ng/ml	38.7	29.0	48.4	Roche Cobas 4000/E411
	ng/ml	14.6	11.0	18.3	Diesse Chorus
	ng/ml	38.7	29.0	48.4	Roche Cobas e601/602
	ng/ml	34.9	26.2	43.6	Beckman Access
	ng/ml	42.1	31.6	52.6	Abbott Architect 2000i
	ng/ml	38.4	28.8	48.0	Tosoh Series
	ng/ml	39.1	29.3	48.9	Roche Cobas e601/602 Tg II
	ng/ml	39.6	29.7	49.5	Roche Elecsys TGII
	ng/ml	39.8	29.9	49.8	Roche Cobas 4000/E411 TGII
	ng/ml	37.9	28.4	47.4	Diasorin Liaison XL
	ng/ml	43.8	32.9	54.8	Roche Cobas e801 Tg II
Thyroid Stimulating Hormone	μU/ml = mIU/l	1.95	1.56	2.34	Abbott Architect
	μU/ml = mIU/l	2.06	1.65	2.47	bioMerieux VIDAS TSH
	μU/ml = mIU/l	2.02	1.62	2.42	bioMerieux VIDAS TSH3 Ultrasensitive
	μU/ml = mIU/l	2.26	1.54	2.98	Siemens Centaur XP/XPT/Classic
	μU/ml = mIU/l	2.91	2.33	3.49	CIS IRMA
	μU/ml = mIU/l	2.15	1.46	2.84	Siemens Centaur XP/XPT/Classic 3rd Generation
	μU/ml = mIU/l	2.24	1.79	2.69	Siemens Immulite 2000/2500
	μU/ml = mIU/l	2.26	1.81	2.71	Siemens Immulite 1000
	μU/ml = mIU/l	2.05	1.64	2.46	Beckman Dxl800 Fast TSH
	μU/ml = mIU/l	2.04	1.63	2.45	Beckman Dxl800
	μU/ml = mIU/l	2.33	1.86	2.80	Roche Elecsys
	μU/ml = mIU/l	3.24	2.59	3.89	Diasorin Liaison
	μU/ml = mIU/l	2.01	1.61	2.41	Beckman Access Fast TSH
	μU/ml = mIU/l	2.08	1.66	2.50	Beckman Access hyperTSH 3rd Generation
	μU/ml = mIU/l	2.46	1.97	2.95	Tosoh Series
	μU/ml = mIU/l	2.52	2.02	3.02	Vitros ECi
	μU/ml = mIU/l	2.39	1.91	2.87	Roche Cobas 4000/E411
	μU/ml = mIU/l	2.39	1.91	2.87	Roche Cobas e601/602
	μU/ml = mIU/l	2.03	1.62	2.44	Beckman Dxl800 Hyper TSH
	μU/ml = mIU/l	1.85	1.48	2.22	Siemens Dimension Vista LOCI
	μU/ml = mIU/l	2.20	1.50	2.90	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	μU/ml = mIU/l	2.23	1.52	2.94	Siemens Centaur CP
	μU/ml = mIU/l	2.21	1.50	2.92	Siemens Centaur CP TSH3-Ultra
	μU/ml = mIU/l	2.84	2.27	3.41	Mindray CL-2000i
	μU/ml = mIU/l	2.03	1.62	2.44	Beckman Dxl 600/800 Access (3rd IS)
μU/ml = mIU/l	3.27	2.62	3.92	Diasorin Liaison XL	
μU/ml = mIU/l	2.19	1.75	2.63	Siemens Atellica IM	
μU/ml = mIU/l	1.91	1.53	2.29	Abbott Alinity i	
μU/ml = mIU/l	2.24	1.79	2.69	Roche Cobas e801	
Tobramycin	μmol/l	7.16	5.73	8.59	Gravimetric
	μg/ml	3.35	2.68	4.02	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	21.7	17.4	26.0	Abbott Architect
	IU/ml	0.022	0.017	0.027	
	mU/ml=IU/l	45.2	36.2	54.2	BioMerieux Vidas
	IU/ml	0.045	0.036	0.054	
	mU/ml=IU/l	23.2	13.9	32.5	Siemens Centaur XP/XPT/Classic
	IU/ml	0.023	0.014	0.032	
	mU/ml=IU/l	45.5	36.4	54.6	Siemens Dimension
	IU/ml	0.046	0.036	0.056	
	mU/ml=IU/l	57.7	46.2	69.2	Siemens Immulite 2000
	IU/ml	0.058	0.046	0.070	
	mU/ml=IU/l	59.3	47.4	71.2	Siemens Immulite 1000
	IU/ml	0.059	0.047	0.071	
	mU/ml=IU/l	25.3	20.2	30.4	Beckman DxI800
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	23.5	18.8	28.2	Diasorin Liaison
	IU/ml	0.024	0.019	0.029	
	mU/ml=IU/l	28.0	22.4	33.6	Roche Cobas Core EIA
	IU/ml	0.028	0.022	0.034	
	mU/ml=IU/l	24.6	19.7	29.5	Beckman Access
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	44.6	35.7	53.5	Tosoh Series
	IU/ml	0.045	0.036	0.054	
	mU/ml=IU/l	48.6	38.9	58.3	Vitros ECi
	IU/ml	0.049	0.039	0.059	
	mU/ml=IU/l	31.3	25.0	37.6	Roche hCG STAT (Intact)
	IU/ml	0.031	0.025	0.037	
	mU/ml=IU/l	27.4	21.9	32.9	Roche hCG+Beta
	IU/ml	0.027	0.022	0.032	
	mU/ml=IU/l	24.7	19.8	29.6	Beckman Access Total BhCG (5th IS)
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	24.9	19.9	29.9	Beckman DxI Total BhCG (5th IS)
	IU/ml	0.025	0.020	0.030	
mU/ml=IU/l	23.5	14.1	32.9	Siemens Centaur CP	
IU/ml	0.024	0.014	0.034		
mU/ml=IU/l	22.8	18.2	27.4	Diasorin Liaison XL	
IU/ml	0.023	0.018	0.028		
mU/ml=IU/l	25.0	20.0	30.0	Siemens Atellica IM	
IU/ml	0.025	0.020	0.030		
mU/ml=IU/l	21.4	17.1	25.7	Abbott Alinity i	
IU/ml	0.021	0.017	0.025		
mU/ml=IU/l	26.7	21.4	32.0	Roche hCG+Beta e801	
IU/ml	0.027	0.021	0.033		
Total T3	nmol/l	2.96	2.22	3.70	Abbott Architect
	ng/ml	1.93	1.45	2.41	
	ng/dl	193	145	241	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.57	2.68	4.46	BioMerieux Vidas
	ng/ml	2.32	1.74	2.90	
	ng/dl	232	174	290	
	nmol/l	3.86	2.90	4.83	Siemens Centaur XP/XPT/Classic
	ng/ml	2.51	1.89	3.13	
	ng/dl	251	189	313	
	nmol/l	3.20	2.40	4.00	Siemens Immulite 2000/2500
	ng/ml	2.08	1.56	2.60	
	ng/dl	208	156	260	
	nmol/l	3.52	2.64	4.40	Siemens Immulite 1000
	ng/ml	2.29	1.72	2.86	
	ng/dl	229	172	286	
	nmol/l	3.10	2.33	3.88	Beckman DxI800
	ng/ml	2.02	1.52	2.52	
	ng/dl	202	152	252	
	nmol/l	3.76	2.82	4.70	Roche Elecsys
	ng/ml	2.45	1.84	3.06	
	ng/dl	245	184	306	
	nmol/l	2.97	2.23	3.71	Diasorin Liaison
	ng/ml	1.93	1.45	2.41	
	ng/dl	193	145	241	
	nmol/l	3.14	2.36	3.93	Beckman Access
	ng/ml	2.04	1.54	2.54	
	ng/dl	204	154	254	
	nmol/l	3.36	2.52	4.20	Tosoh Series
	ng/ml	2.19	1.64	2.74	
	ng/dl	219	164	274	
	nmol/l	3.80	2.85	4.75	Vitros ECI
	ng/ml	2.47	1.86	3.08	
	ng/dl	247	186	308	
nmol/l	2.30	1.73	2.88	CIS RIA Coated tube	
ng/ml	1.50	1.13	1.87		
ng/dl	150	113	187		
nmol/l	3.77	2.83	4.71	Roche Cobas 4000/E411	
ng/ml	2.45	1.84	3.06		
ng/dl	245	184	306		
nmol/l	3.72	2.79	4.65	Roche Cobas e601/602	
ng/ml	2.42	1.82	3.02		
ng/dl	242	182	302		
nmol/l	3.91	2.93	4.89	Siemens Centaur CP	
ng/ml	2.55	1.91	3.19		
ng/dl	255	191	319		
nmol/l	2.09	1.57	2.61	Boditech Med Inc i-CHROMA	
ng/ml	1.36	1.02	1.70		
ng/dl	136	102	170		
nmol/l	2.58	1.94	3.23	Diasorin Liaison XL	
ng/ml	1.68	1.26	2.10		
ng/dl	168	126	210		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.00	2.25	3.75	Abbott Alinity i
	ng/ml	1.95	1.46	2.44	
	ng/dl	195	146	244	
	nmol/l	3.79	2.84	4.74	Siemens Atellica IM
	ng/ml	2.47	1.85	3.09	
	ng/dl	247	185	309	
	nmol/l	3.85	2.89	4.81	Roche Cobas e801
	ng/ml	2.51	1.88	3.14	
	ng/dl	251	188	314	
Total T4	nmol/l	101	75.8	126	Abbott Architect
	µg/dl	7.88	5.91	9.85	
	ng/ml	78.8	59.1	98.5	
	nmol/l	117	87.8	146	BioMerieux Vidas
	µg/dl	9.13	6.85	11.4	
	ng/ml	91.3	68.5	114	
	nmol/l	105	68.3	142	Siemens Centaur XP/XPT/Classic
	µg/dl	8.19	5.32	11.1	
	ng/ml	81.9	53.2	111	
	nmol/l	105	78.8	131	Siemens Immulite 2000/2500
	µg/dl	8.19	6.15	10.2	
	ng/ml	81.9	61.5	102	
	nmol/l	118	88.5	148	Siemens Immulite 1000
	µg/dl	9.20	6.90	11.5	
	ng/ml	92.0	69.0	115	
	nmol/l	110	82.5	138	Beckman Dxl800
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
	nmol/l	108	81.0	135	Roche Elecsys
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	112	84.0	140	Beckman Access
	µg/dl	8.74	6.55	10.9	
	ng/ml	87.4	65.5	109	
	nmol/l	103	77.3	129	Tosoh Series
	µg/dl	8.03	6.03	10.0	
	ng/ml	80.3	60.3	100	
	nmol/l	107	80.3	134	Vitros ECi
	µg/dl	8.35	6.26	10.4	
	ng/ml	83.5	62.6	104	
nmol/l	107	80.3	134	CIS RIA Coated tube	
µg/dl	8.35	6.26	10.4		
ng/ml	83.5	62.6	104		
nmol/l	110	82.5	138	Roche Cobas 4000/E411	
µg/dl	8.58	6.44	10.7		
ng/ml	85.8	64.4	107		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	105	78.8	131	Roche Cobas e601/602
	µg/dl	8.19	6.15	10.2	
	ng/ml	81.9	61.5	102	
	nmol/l	88.3	66.2	110	Immunotech IRMA
	µg/dl	6.89	5.16	8.62	
	ng/ml	68.9	51.6	86.2	
	nmol/l	164	123	205	Boditech Med Inc i-CHROMA
	µg/dl	12.8	9.59	16.0	
	ng/ml	128	95.9	160	
	nmol/l	118	76.7	159	Siemens Centaur CP
	µg/dl	9.20	5.98	12.4	
	ng/ml	92.0	59.8	124	
	nmol/l	83.2	62.4	104	Diasorin Liaison XL
	µg/dl	6.49	4.87	8.11	
	ng/ml	64.9	48.7	81.1	
	nmol/l	101	75.8	126	Abbott Alinity i
	µg/dl	7.88	5.91	9.85	
	ng/ml	78.8	59.1	98.5	
nmol/l	104	78.0	130	Siemens Atellica IM	
µg/dl	8.11	6.08	10.1		
ng/ml	81.1	60.8	101		
nmol/l	101	75.8	126	Roche Cobas e801	
µg/dl	7.88	5.91	9.85		
ng/ml	78.8	59.1	98.5		
Valproic Acid	µmol/l	517	414	620	Abbott Architect (CMIA)
	µg/ml	74.6	59.7	89.5	
	µmol/l	555	444	666	Siemens Centaur XP/XPT/Classic
	µg/ml	80.1	64.1	96.1	
	µmol/l	542	434	650	Siemens Dimension
	µg/ml	78.2	62.6	93.8	
	µmol/l	533	426	640	Siemens Immulite 2000/2500
	µg/ml	76.9	61.5	92.3	
	µmol/l	528	422	634	Siemens Immulite 1000
	µg/ml	76.2	60.9	91.5	
	µmol/l	522	418	626	Roche Integra
	µg/ml	75.3	60.3	90.3	
	µmol/l	552	442	662	Vitros
	µg/ml	79.7	63.8	95.6	
	µmol/l	538	430	646	Roche Cobas 6000/8000
	µg/ml	77.6	62.0	93.2	
	µmol/l	521	417	625	Beckman DxC
	µg/ml	75.2	60.2	90.2	
µmol/l	551	441	661	Beckman AU400/600/640/2700/5400	
µg/ml	79.5	63.6	95.4		
µmol/l	570	456	684	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	82.3	65.8	98.8		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	513	410	616	Abbott Architect (PETINA)
	µg/ml	74.0	59.2	88.8	
	µmol/l	559	447	671	EMIT
	µg/ml	80.7	64.5	96.9	
	µmol/l	555	444	666	Siemens Atellica CH
	µg/ml	80.1	64.1	96.1	
	µmol/l	509	407	611	Abbott Alinity (PETINA)
	µg/ml	73.4	58.7	88.1	
	µmol/l	638	510	766	Gravimetric
	µg/ml	92.1	73.6	111	
Vancomycin	µmol/l	7.31	5.85	8.77	Roche Integra
	µg/ml	10.9	8.69	13.1	
	µmol/l	6.13	4.90	7.36	Ortho Vitros Microslide Systems
	µg/ml	9.11	7.28	10.9	
	µmol/l	7.85	6.28	9.42	Abbott Architect (CMIA)
	µg/ml	11.7	9.33	14.1	
	µmol/l	6.57	5.12	8.02	Siemens Centaur XP/XPT/Classic
	µg/ml	9.76	7.61	11.9	
	µmol/l	7.46	5.97	8.95	Siemens Dimension
	µg/ml	11.1	8.87	13.3	
	µmol/l	6.95	5.56	8.34	Roche Cobas 6000/8000
	µg/ml	10.3	8.26	12.3	
	µmol/l	6.77	5.42	8.12	Thermo Scientific QMS Vancomycin
	µg/ml	10.1	8.05	12.2	
	µmol/l	6.87	5.50	8.24	Abbott Architect (PETINA)
	µg/ml	10.2	8.17	12.2	
µmol/l	7.09	5.67	8.51	Siemens Atellica CH	
µg/ml	10.5	8.42	12.6		
µmol/l	6.92	5.54	8.30	Abbott Alinity (PETINA)	
µg/ml	10.3	8.23	12.4		
µmol/l	7.10	5.68	8.52	Gravimetric	
µg/ml	10.5	8.44	12.7		
Vitamin B12	pmol/l	370	296	444	Abbott Architect
	pg/ml	501	401	601	
	pmol/l	421	316	526	Siemens Centaur XP/XPT/Classic
	pg/ml	570	428	712	
	pmol/l	380	304	456	Siemens Immulite 2000
	pg/ml	515	412	618	
	pmol/l	314	251	377	Beckman DxI800
	pg/ml	425	340	510	
	pmol/l	398	318	478	Roche Elecsys
	pg/ml	539	431	647	
pmol/l	338	270	406	Beckman Access	
pg/ml	458	366	550		
pmol/l	506	405	607	Tosoh Series	
pg/ml	686	549	823		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2026EC Size 12 x 5ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	396	317	475	Vitros ECI
	pg/ml	537	430	644	
	pmol/l	443	332	554	Siemens Centaur CP
	pg/ml	600	450	750	
	pmol/l	404	323	485	Roche Cobas 4000/e411 Gen II
	pg/ml	547	438	656	
	pmol/l	424	339	509	Roche Cobas e601/602 Gen II
	pg/ml	575	459	691	
	pmol/l	454	363	545	Siemens Atellica IM
	pg/ml	615	492	738	
	pmol/l	369	295	443	Abbott Alinity i
	pg/ml	500	400	600	
	pmol/l	429	343	515	Roche Cobas e801 Gen II
	pg/ml	581	465	697	