

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

CAT. NO. IA2639	GTIN: 05055273203851	SIZE: 12 x 5 ml
CAT. NO. IA2633	GTIN: 05055273203837	SIZE: 4 x 5 ml
LOT NO. 2186EC	EXPIRY: 2025-06-28	

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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 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 - 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
----	-----

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

Rev. 24 Apr '23 me

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

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

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	44.8	35.8	53.8	Siemens Immulite 2000/2500
	ng/ml	54.2	43.3	65.1	
	KIU/l = IU/ml	51.1	40.9	61.3	Siemens Immulite 1000
	ng/ml	61.8	49.5	74.1	
	KIU/l = IU/ml	42.5	34.0	51.0	Beckman Dxl800
	ng/ml	51.4	41.1	61.7	
	KIU/l = IU/ml	49.4	39.5	59.3	Roche Elecsys
	ng/ml	59.8	47.8	71.8	
	KIU/l = IU/ml	52.1	41.7	62.5	Diasorin Liaison
	ng/ml	63.0	50.5	75.5	
	KIU/l = IU/ml	45.1	36.1	54.1	Beckman Access
	ng/ml	54.6	43.7	65.5	
	KIU/l = IU/ml	44.4	35.5	53.3	Tosoh Series
	ng/ml	53.7	43.0	64.4	
	KIU/l = IU/ml	45.1	36.1	54.1	Vitros ECi
	ng/ml	46.9	37.5	56.3	
	KIU/l = IU/ml	50.4	40.3	60.5	Roche Cobas e601/602
	ng/ml	61.0	48.8	73.2	
	KIU/l = IU/ml	50.2	40.2	60.2	Roche Cobas 4000/E411
	ng/ml	60.7	48.6	72.8	
	KIU/l = IU/ml	48.3	38.6	58.0	Fujirebio Lumipulse G Series
	ng/ml	58.4	46.7	70.1	
	KIU/l = IU/ml	47.7	38.2	57.2	Siemens Dimension
	ng/ml	57.7	46.2	69.2	
	KIU/l = IU/ml	52.5	42.0	63.0	Siemens Centaur CP
	ng/ml	63.5	50.8	76.2	
	KIU/l = IU/ml	47.8	38.2	57.4	Immunotech IRMA
	ng/ml	57.8	46.2	69.4	
KIU/l = IU/ml	48.3	38.6	58.0	Sysmex HISCL Series	
ng/ml	58.4	46.7	70.1		
KIU/l = IU/ml	46.2	37.0	55.4	Mindray CL Series	
ng/ml	55.9	44.8	67.0		
KIU/l = IU/ml	50.2	40.2	60.2	Diasorin Liaison XL	
ng/ml	60.7	48.6	72.8		
KIU/l = IU/ml	51.0	40.8	61.2	Siemens Atellica IM	
ng/ml	61.7	49.4	74.0		
KIU/l = IU/ml	44.6	35.7	53.5	Abbott Alinity i	
ng/ml	54.0	43.2	64.8		
KIU/l = IU/ml	48.0	38.4	57.6	Roche Cobas e402/e801	
ng/ml	58.1	46.5	69.7		
KIU/l = IU/ml	42.0	33.6	50.4	Tosoh AIA-CL Series	
ng/ml	50.8	40.7	60.9		
Amikacin	µmol/l	14.0	11.2	16.8	EMIT
	µg/ml	8.20	6.56	9.84	
	µmol/l	14.6	11.7	17.5	Roche Cobas 6000/8000
	µg/ml	8.55	6.85	10.3	

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

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

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	2.020	1.520	2.530	Roche Cobas e402/e801
	ng/ml	6.10	4.59	7.61	
	nmol/l	1.360	1.020	1.700	Siemens Atellica IM
	ng/ml	4.11	3.08	5.14	
	nmol/l	2.090	1.570	2.610	Vitros ECi
	ng/ml	6.31	4.74	7.88	
Carbamazepine	nmol/l	1.230	0.923	1.540	Beckman Access
	ng/ml	3.71	2.79	4.63	
	nmol/l	1.880	1.410	2.350	Abbott Alinity i
	ng/ml	5.68	4.26	7.10	
	µmol/l	39.4	31.5	47.3	Abbott Architect (CMIA)
	µg/ml	9.31	7.45	11.2	
	µmol/l	41.6	33.3	49.9	Siemens Centaur XP/XPT/Classic
	µg/ml	9.83	7.87	11.8	
	µmol/l	36.0	28.8	43.2	Siemens Dimension
	µg/ml	8.51	6.81	10.2	
	µmol/l	33.3	26.6	40.0	Siemens Immulite 2000/2500
	µg/ml	7.87	6.29	9.45	
µmol/l	39.4	31.5	47.3	Roche Integra	
µg/ml	9.31	7.45	11.2		
µmol/l	39.9	31.9	47.9	Roche Cobas 6000/8000	
µg/ml	9.43	7.54	11.3		
µmol/l	36.9	29.5	44.3	Beckman AU400/600/640/2700/5400	
µg/ml	8.72	6.97	10.5		
µmol/l	32.7	26.2	39.2	Abbott Architect (PETINA)	
µg/ml	7.73	6.19	9.27		
µmol/l	36.8	29.4	44.2	EMIT	
µg/ml	8.70	6.95	10.5		
µmol/l	36.6	29.3	43.9	Siemens Atellica CH	
µg/ml	8.65	6.93	10.4		
µmol/l	32.2	25.8	38.6	Abbott Alinity (PETINA)	
µg/ml	7.61	6.10	9.12		
µmol/l	38.5	30.8	46.2	Gravimetric	
µg/ml	9.10	7.28	10.9		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	30.3	24.2	36.4	Abbott Architect
	ng/ml = µg/l	23.3	18.6	28.0	BioMerieux Vidas
	ng/ml = µg/l	24.4	19.5	29.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	34.7	27.8	41.6	Siemens Immulite 2000/2500
	ng/ml = µg/l	32.0	25.6	38.4	Siemens Immulite 1000
	ng/ml = µg/l	23.1	18.5	27.7	Beckman Dxl800
	ng/ml = µg/l	23.9	19.1	28.7	Roche Elecsys
	ng/ml = µg/l	21.3	17.0	25.6	Diasorin Liaison
	ng/ml = µg/l	24.6	19.7	29.5	Beckman Access
ng/ml = µg/l	36.8	29.4	44.2	Tosoh Series	
ng/ml = µg/l	28.9	23.1	34.7	Vitros ECi	

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	23.8	19.0	28.6	Roche Cobas e601/602
	ng/ml = µg/l	21.1	16.9	25.3	Immunotech IRMA
	ng/ml = µg/l	23.7	19.0	28.4	Roche Cobas 4000/E411
	ng/ml = µg/l	31.4	25.1	37.7	Fujirebio Lumipulse G Series
	ng/ml = µg/l	25.9	20.7	31.1	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	24.8	19.8	29.8	Siemens Centaur CP
	ng/ml = µg/l	19.3	15.4	23.2	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	ng/ml = µg/l	22.9	18.3	27.5	Diasorin Liaison XL
	ng/ml = µg/l	23.8	19.0	28.6	Siemens Atellica IM
	ng/ml = µg/l	23.7	19.0	28.4	Roche Cobas e402/e801
	ng/ml = µg/l	30.3	24.2	36.4	Abbott Alinity i
Cortisol	nmol/l	587	440	734	Abbott Architect
	µg/dl	21.1	15.8	26.4	
	nmol/l	630	473	788	BioMerieux Vidas
	µg/dl	22.7	17.0	28.4	
	nmol/l	775	581	969	Siemens Centaur XP/XPT/Classic
	µg/dl	27.9	20.9	34.9	
	nmol/l	611	458	764	Siemens Immulite 2000/2500
	µg/dl	22.0	16.5	27.5	
	nmol/l	659	494	824	Siemens Immulite 1000
	µg/dl	23.7	17.8	29.6	
	nmol/l	665	499	831	Beckman Dxl800
	µg/dl	23.9	18.0	29.8	
	nmol/l	659	494	824	Roche Elecsys
	µg/dl	23.7	17.8	29.6	
	nmol/l	728	546	910	Beckman Access
	µg/dl	26.2	19.7	32.7	
	nmol/l	692	519	865	Tosoh Series
	µg/dl	24.9	18.7	31.1	
	nmol/l	606	455	758	Vitros ECi
	µg/dl	21.8	16.4	27.2	
	nmol/l	670	503	838	Roche Cobas e601/602
	µg/dl	24.1	18.1	30.1	
	nmol/l	703	527	879	Roche Cobas 4000/E411
	µg/dl	25.3	19.0	31.6	
	nmol/l	769	577	961	Immunotech RIA
	µg/dl	27.7	20.8	34.6	
	nmol/l	781	586	976	Siemens Centaur CP
	µg/dl	28.1	21.1	35.1	
nmol/l	690	518	863	Roche Cobas 4000/e411 Gen II	
µg/dl	24.8	18.6	31.0		
nmol/l	660	495	825	Roche Cobas e601/602 Gen II	
µg/dl	23.8	17.8	29.8		
nmol/l	693	520	866	Roche Elecsys Gen II	
µg/dl	24.9	18.7	31.1		
nmol/l	644	483	805	Diasorin Liaison XL	
µg/dl	23.2	17.4	29.0		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	807	605	1009	Siemens Atellica IM
	µg/dl	29.1	21.8	36.4	
	nmol/l	659	494	824	Roche Cobas e402/e801
	µg/dl	23.7	17.8	29.6	
	nmol/l	719	539	899	Tosoh AIA-CL Series
	µg/dl	25.9	19.4	32.4	
DHEA-S	nmol/l	583	437	729	Abbott Alinity i
	µg/dl	21.0	15.7	26.3	
	µmol/l	14.3	11.4	17.2	Abbott Architect
	µmol/l	12.4	9.92	14.9	Siemens Immulite 2000/2500
	µmol/l	13.2	10.6	15.8	Siemens Immulite 1000
	µmol/l	11.9	9.52	14.3	Beckman Dxl800
	µmol/l	12.8	10.2	15.4	Beckman Access
	µmol/l	13.1	10.5	15.7	Diasorin Liaison
	µmol/l	12.3	9.84	14.8	Siemens Centaur XP/XPT/Classic
	µmol/l	17.9	14.3	21.5	Roche Cobas 4000/E411
	µmol/l	17.5	14.0	21.0	Roche Cobas e601/602
	µmol/l	11.7	9.36	14.0	Diasorin Liaison XL
Digoxin	µmol/l	11.6	9.28	13.9	Siemens Atellica IM
	µmol/l	17.0	13.6	20.4	Roche Cobas e402/e801
	µmol/l	14.5	11.6	17.4	Abbott Alinity i
	nmol/l	2.47	1.98	2.96	Abbott Architect (CMIA)
	ng/ml	1.93	1.55	2.31	
	nmol/l	2.84	2.27	3.41	BioMerieux Vidas
	ng/ml	2.22	1.77	2.67	
	nmol/l	3.26	2.61	3.91	Siemens Centaur XP/XPT/Classic
	ng/ml	2.55	2.04	3.06	
	nmol/l	2.98	2.38	3.58	Siemens Dimension
	ng/ml	2.33	1.86	2.80	
	nmol/l	3.03	2.42	3.64	Beckman Dxl800
	ng/ml	2.37	1.89	2.85	
	nmol/l	2.88	2.30	3.46	Roche Integra
	ng/ml	2.25	1.80	2.70	
	nmol/l	3.02	2.42	3.62	Roche Cobas e601/602
	ng/ml	2.36	1.89	2.83	
	nmol/l	3.17	2.54	3.80	Beckman AU400/600/640/2700/5400
ng/ml	2.48	1.98	2.98		
nmol/l	3.11	2.49	3.73	Roche Cobas 4000/E411	
ng/ml	2.43	1.94	2.92		
nmol/l	2.81	2.25	3.37	Abbott Architect (PETINA)	
ng/ml	2.19	1.76	2.62		
nmol/l	2.98	2.38	3.58	Roche Cobas e402/e801	
ng/ml	2.33	1.86	2.80		
nmol/l	3.42	2.74	4.10	Siemens Atellica IM	
ng/ml	2.67	2.14	3.20		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.91	2.33	3.49	Siemens Atellica CH
	ng/ml	2.27	1.82	2.72	
	nmol/l	2.80	2.24	3.36	Abbott Alinity (CMIA)
	ng/ml	2.19	1.75	2.63	
	nmol/l	2.88	2.30	3.46	Abbott Alinity (PETINA)
	ng/ml	2.25	1.80	2.70	
Ethosuximide	nmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	102	81.6	122	Abbott Architect
	ng/ml = µg/l	76.6	61.3	91.9	BioMerieux Vidas
	ng/ml = µg/l	70.1	56.1	84.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	92.8	74.2	111	Siemens Dimension
	ng/ml = µg/l	88.4	70.7	106	Siemens Immulite 2000/2500
	ng/ml = µg/l	74.3	59.4	89.2	Siemens Immulite 1000
	ng/ml = µg/l	65.4	52.3	78.5	Beckman Dxl800
	ng/ml = µg/l	104	83.2	125	Roche Elecsys/Cobas e411
	ng/ml = µg/l	90.2	72.2	108	Diasorin Liaison
	ng/ml = µg/l	102	81.6	122	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	67.7	54.2	81.2	Beckman Access
	ng/ml = µg/l	66.0	52.8	79.2	Tosoh Series
	ng/ml = µg/l	60.6	48.5	72.7	Vitros ECi
	ng/ml = µg/l	105	84.0	126	Roche Cobas 4000/c311
	ng/ml = µg/l	87.6	70.1	105	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	99.0	79.2	119	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	68.9	55.1	82.7	Siemens Centaur CP
	ng/ml = µg/l	96.5	77.2	116	Diasorin Liaison XL
	ng/ml = µg/l	105	84.0	126	Abbott Alinity i
	ng/ml = µg/l	68.2	54.6	81.8	Siemens Atellica IM
ng/ml = µg/l	101	80.8	121	Roche Cobas e402/e801	
Folate	nmol/l	9.68	7.36	12.0	Abbott Architect
	ng/ml	4.27	3.25	5.29	
	nmol/l	24.1	18.3	29.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	10.6	8.07	13.1	
	nmol/l	8.00	6.08	9.92	Siemens Immulite 2000
	ng/ml	3.53	2.68	4.38	
	nmol/l	11.0	8.36	13.6	Beckman Dxl 600 / 800 - A14208
	ng/ml	4.85	3.69	6.01	
	nmol/l	11.4	8.66	14.1	Beckman Access
	ng/ml	5.03	3.82	6.24	
	nmol/l	7.16	5.44	8.88	Vitros ECi
	ng/ml	3.16	2.40	3.92	
	nmol/l	6.19	4.70	7.68	Siemens Dimension
	ng/ml	2.73	2.07	3.39	
nmol/l	11.3	8.59	14.0	Beckman Dxl 600 / 800 - A98032	
ng/ml	4.98	3.79	6.17		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	11.3	8.59	14.0	Roche Folate III - 04476433
	ng/ml	4.98	3.79	6.17	
	nmol/l	11.0	8.36	13.6	Roche Elecsys Folate
	ng/ml	4.85	3.69	6.01	
	nmol/l	11.1	8.44	13.8	Roche Folate III - 07559992
	ng/ml	4.90	3.72	6.08	
	nmol/l	22.7	17.3	28.1	Siemens Atellica IM
	ng/ml	10.0	7.63	12.4	
Free T3	nmol/l	10.4	7.90	12.9	Abbott Alinity i
	ng/ml	4.59	3.48	5.70	
	nmol/l	10.9	8.28	13.5	Roche Folate 07027290 e801
	ng/ml	4.81	3.65	5.97	
	pmol/l	12.7	9.53	15.9	Abbott Architect, 2 point calibration
	ng/dl	0.826	0.619	1.03	
	pg/ml	8.27	6.20	10.3	
	pmol/l	13.3	9.98	16.6	BioMerieux Vidas
	ng/dl	0.865	0.649	1.08	
	pg/ml	8.66	6.50	10.8	
	pmol/l	13.3	9.98	16.6	Siemens Centaur XP/XPT/Classic
	ng/dl	0.865	0.649	1.08	
	pg/ml	8.66	6.50	10.8	
	pmol/l	9.72	7.29	12.2	Siemens Immulite 2000/2500
	ng/dl	0.632	0.474	0.790	
	pg/ml	6.33	4.75	7.91	
	pmol/l	10.1	7.58	12.6	Siemens Immulite 1000
	ng/dl	0.657	0.493	0.821	
	pg/ml	6.58	4.93	8.23	
	pmol/l	9.41	7.06	11.8	Beckman Dxl800
	ng/dl	0.612	0.459	0.765	
	pg/ml	6.13	4.60	7.66	
	pmol/l	15.8	11.9	19.8	Roche Elecsys
	ng/dl	1.03	0.774	1.29	
pg/ml	10.3	7.75	12.9		
pmol/l	16.4	12.3	20.5	Diasorin Liaison	
ng/dl	1.07	0.800	1.34		
pg/ml	10.7	8.01	13.4		
pmol/l	10.4	7.80	13.0	Beckman Access	
ng/dl	0.676	0.507	0.845		
pg/ml	6.77	5.08	8.46		
pmol/l	17.6	13.2	22.0	Tosoh Series	
ng/dl	1.14	0.858	1.42		
pg/ml	11.5	8.59	14.4		
pmol/l	31.7	23.8	39.6	Vitros ECi	
ng/dl	2.06	1.55	2.57		
pg/ml	20.6	15.5	25.7		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	33.3	25.0	41.6	Siemens Immulite 1000
	ng/dl	2.60	1.95	3.25	
	pg/ml	26.0	19.5	32.5	
	pmol/l	25.8	19.4	32.3	Beckman DxI800
	ng/dl	2.01	1.51	2.51	
	pg/ml	20.1	15.1	25.1	
	pmol/l	30.2	22.7	37.8	Roche Elecsys
	ng/dl	2.36	1.77	2.95	
	pg/ml	23.6	17.7	29.5	
	pmol/l	33.5	25.1	41.9	Diasorin Liaison
	ng/dl	2.61	1.96	3.26	
	pg/ml	26.1	19.6	32.6	
	pmol/l	26.6	20.0	33.3	Beckman Access
	ng/dl	2.07	1.56	2.58	
	pg/ml	20.7	15.6	25.8	
	pmol/l	30.0	22.5	37.5	Tosoh Series
	ng/dl	2.34	1.76	2.92	
	pg/ml	23.4	17.6	29.2	
	pmol/l	66.8	50.1	83.5	Vitros ECi
	ng/dl	5.21	3.91	6.51	
	pg/ml	52.1	39.1	65.1	
	pmol/l	29.9	22.4	37.4	Roche Cobas e601/602
	ng/dl	2.33	1.75	2.91	
	pg/ml	23.3	17.5	29.1	
	pmol/l	29.9	22.4	37.4	Roche Cobas 4000/E411
	ng/dl	2.33	1.75	2.91	
	pg/ml	23.3	17.5	29.1	
	pmol/l	32.9	24.7	41.1	Biomerieux Vidas FT4N Kit
	ng/dl	2.57	1.93	3.21	
	pg/ml	25.7	19.3	32.1	
pmol/l	21.4	16.1	26.8	Immunotech RIA	
ng/dl	1.67	1.26	2.08		
pg/ml	16.7	12.6	20.8		
pmol/l	25.6	19.2	32.0	Siemens Dimension Exl LOCI	
ng/dl	2.00	1.50	2.50		
pg/ml	20.0	15.0	25.0		
pmol/l	23.2	17.4	29.0	Siemens Centaur CP	
ng/dl	1.81	1.36	2.26		
pg/ml	18.1	13.6	22.6		
pmol/l	30.8	23.1	38.5	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
ng/dl	2.40	1.80	3.00		
pg/ml	24.0	18.0	30.0		
pmol/l	31.4	23.6	39.3	Sysmex HISCL Series	
ng/dl	2.45	1.84	3.06		
pg/ml	24.5	18.4	30.6		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods	
			low	high		
Free T4	pmol/l	36.7	27.5	45.9	Diasorin Liaison XL	
	ng/dl	2.86	2.15	3.57		
	pg/ml	28.6	21.5	35.7		
	pmol/l	23.3	17.5	29.1	Siemens Atellica IM	
		ng/dl	1.82	1.37		2.27
		pg/ml	18.2	13.7		22.7
	pmol/l	22.2	16.7	27.8	Abbott Alinity i	
		ng/dl	1.73	1.30		2.16
		pg/ml	17.3	13.0		21.6
	pmol/l	29.9	22.4	37.4	Roche Cobas e402/e801	
		ng/dl	2.33	1.75		2.91
		pg/ml	23.3	17.5		29.1
pmol/l	30.0	22.5	37.5	Tosoh AIA-CL Series		
	ng/dl	2.34	1.76		2.92	
	pg/ml	23.4	17.6		29.2	
FSH	mU/ml	26.3	21.0	31.6	Abbott Architect	
	mU/ml	32.2	25.8	38.6	BioMerieux Vidas	
	mU/ml	33.8	27.0	40.6	Siemens Centaur XP/XPT/Classic	
	mU/ml	29.6	23.7	35.5	Siemens Immulite 2000/2500	
	mU/ml	29.9	23.9	35.9	Siemens Immulite 1000	
	mU/ml	31.7	25.4	38.0	Beckman DxI800	
	mU/ml	27.6	22.1	33.1	Roche/BM Elecsys	
	mU/ml	31.4	25.1	37.7	Beckman Access	
	mU/ml	32.5	26.0	39.0	Tosoh Series	
	mU/ml	22.7	18.2	27.2	Vitros Eci	
	mU/ml	28.9	23.1	34.7	Roche Cobas 4000/E411	
	mU/ml	27.0	21.6	32.4	Roche Cobas e601/602	
	mU/ml	32.8	26.2	39.4	Siemens Centaur CP	
	mU/ml	35.2	28.2	42.2	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
	mU/ml	42.9	34.3	51.5	Diasorin Liaison XL	
	mU/ml	34.1	27.3	40.9	Siemens Atellica IM	
	mU/ml	26.5	21.2	31.8	Abbott Alinity i	
mU/ml	27.6	22.1	33.1	Roche Cobas e402/e801		
Gentamicin	µmol/l	7.38	5.90	8.86	Roche Integra	
	µg/ml	3.53	2.82	4.24		
	µmol/l	8.28	6.62	9.94	Siemens Centaur XP/XPT/Classic	
	µg/ml	3.96	3.16	4.76		
	µmol/l	8.11	6.49	9.73	Abbott Architect (CMIA)	
	µg/ml	3.88	3.10	4.66		
	µmol/l	5.64	4.51	6.77	Roche Cobas 6000/8000 Online KIMS	
	µg/ml	2.70	2.16	3.24		
µmol/l	7.02	5.62	8.42	Roche Cobas 6000/8000 CEDIA		
µg/ml	3.36	2.69	4.03			
µmol/l	8.19	6.55	9.83	Siemens Atellica CH		
µg/ml	3.91	3.13	4.69			

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Gentamicin	µmol/l	8.74	6.99	10.5	Abbott Alinity (PETINA)
	µg/ml	4.18	3.34	5.02	
	µmol/l	8.16	6.53	9.79	Gravimetric
	µg/ml	3.90	3.12	4.68	
Growth Hormone (GH)	µU/ml	18.7	15.0	22.4	Siemens Immulite 2000/2500
	ng/ml	6.23	5.00	7.46	
	µU/ml	17.1	13.7	20.5	Siemens Immulite 1000
	ng/ml	5.69	4.56	6.82	
	µU/ml	13.8	11.0	16.6	Beckman DxI800
	ng/ml	4.60	3.66	5.54	
	µU/ml	14.4	11.5	17.3	Beckman Access
	ng/ml	4.80	3.83	5.77	
	µU/ml	18.6	14.9	22.3	Tosoh Series
	ng/ml	6.19	4.96	7.42	
	µU/ml	14.0	11.2	16.8	Diasorin Liaison
	ng/ml	4.66	3.73	5.59	
	µU/ml	16.5	13.2	19.8	Roche Cobas 4000/E411
	ng/ml	5.49	4.40	6.58	
	µU/ml	16.5	13.2	19.8	Roche Cobas e601/602
	ng/ml	5.49	4.40	6.58	
µU/ml	13.7	11.0	16.4	Diasorin Liaison XL	
ng/ml	4.56	3.66	5.46		
µU/ml	16.9	13.5	20.3	Roche Cobas e402/e801	
ng/ml	5.63	4.50	6.76		
Immunoglobulin E	KIU/l = IU/ml	83.4	66.7	100	Abbott Architect
	KIU/l = IU/ml	87.3	69.8	105	BioMerieux Vidas
	KIU/l = IU/ml	96.9	77.5	116	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	99.0	79.2	119	Siemens Immulite 2000/2500
	KIU/l = IU/ml	107	85.6	128	Siemens Immulite 1000
	KIU/l = IU/ml	104	83.2	125	Roche Elecsys
	KIU/l = IU/ml	101	80.8	121	Pharmacia Unicap
	KIU/l = IU/ml	89.6	71.7	108	Tosoh Series
	KIU/l = IU/ml	109	87.2	131	Roche Cobas 4000/E411
	KIU/l = IU/ml	108	86.4	130	Roche Cobas e601/602
	KIU/l = IU/ml	84.8	67.8	102	Siemens Centaur CP
	KIU/l = IU/ml	104	83.2	125	Agappe Mispa i2
	KIU/l = IU/ml	98.2	78.6	118	Siemens Atellica IM
	KIU/l = IU/ml	108	86.4	130	Roche Cobas e402/e801
KIU/l = IU/ml	82.0	65.6	98.4	Abbott Alinity	
Insulin	mU/l	18.3	13.7	22.9	Siemens Centaur XP/XPT/Classic
	µU/ml	18.3	13.7	22.9	
	mU/l	6.54	4.91	8.18	Siemens Immulite 1000
	µU/ml	6.54	4.91	8.17	
	mU/l	7.36	5.52	9.20	Siemens Immulite 2000
	µU/ml	7.36	5.52	9.20	
mU/l	16.0	12.0	20.0	Roche Elecsys	
µU/ml	16.0	12.0	20.0		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods	
			low	high		
Insulin	mU/l	15.9	11.9	19.9	Beckman Access	
	µU/ml	15.9	11.9	19.9		
	mU/l	14.6	11.0	18.3	Abbott Architect	
	µU/ml	14.6	11.0	18.2		
	mU/l	17.5	13.1	21.9	Tosoh Series	
	µU/ml	17.5	13.1	21.9		
	mU/l	16.7	12.5	20.9	Roche Cobas 4000/E411	
	µU/ml	16.7	12.5	20.9		
	mU/l	15.8	11.9	19.8	Beckman Dxl 600/800	
	µU/ml	15.8	11.9	19.7		
	mU/l	18.1	13.6	22.6	Diasorin Liaison	
	µU/ml	18.1	13.6	22.6		
	mU/l	16.1	12.1	20.1	Roche Cobas 6000/8000	
	µU/ml	16.1	12.1	20.1		
	mU/l	16.0	12.0	20.0	Mindray CL Series	
	µU/ml	16.0	12.0	20.0		
Luteinising Hormone (LH)	mU/l	19.9	14.9	24.9	Diasorin Liaison XL	
	µU/ml	19.9	14.9	24.9		
	mU/l	18.0	13.5	22.5	Siemens Atellica IM	
	µU/ml	18.0	13.5	22.5		
	mU/l	13.4	10.1	16.8	Abbott Alinity i	
	µU/ml	13.4	10.1	16.7		
	Luteinising Hormone (LH)	mU/ml	24.9	19.9	29.9	Abbott Architect
		mU/ml	29.6	23.7	35.5	BioMerieux Vidas
		mU/ml	32.3	25.8	38.8	Siemens Centaur XP/XPT/Classic
		mU/ml	47.6	38.1	57.1	Siemens Immulite 2000
		mU/ml	45.6	36.5	54.7	Siemens Immulite 1000
		mU/ml	26.0	20.8	31.2	Beckman Dxl800
		mU/ml	34.7	27.8	41.6	Roche Elecsys
		mU/ml	40.4	32.3	48.5	Diasorin Liaison
		mU/ml	26.9	21.5	32.3	Beckman Access
		mU/ml	29.5	23.6	35.4	Tosoh Series
mU/ml		42.5	34.0	51.0	Vitros ECI	
mU/ml		35.2	28.2	42.2	Roche Cobas 4000/E411	
mU/ml		34.5	27.6	41.4	Roche Cobas e601/602	
mU/ml		32.9	26.3	39.5	Siemens Centaur CP	
mU/ml		36.5	29.2	43.8	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
mU/ml		39.5	31.6	47.4	Diasorin Liaison XL	
mU/ml	33.0	26.4	39.6	Siemens Atellica IM		
mU/ml	25.0	20.0	30.0	Abbott Alinity i		
mU/ml	34.8	27.8	41.8	Roche Cobas e402/e801		
Oestradiol	pmol/l	755	604	906	Abbott Architect	
	pg/ml	205	164	246		
	pmol/l	1455	1164	1746	BioMerieux Vidas	
	pg/ml	396	317	475		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1092	874	1310	Siemens Centaur XP/XPT/Classic
	pg/ml	297	238	356	
	pmol/l	1177	942	1412	Siemens Immulite 2000/2500
	pg/ml	320	256	384	
	pmol/l	1002	802	1202	Siemens Immulite 1000
	pg/ml	273	218	328	
	pmol/l	789	631	947	Beckman Dxl800
	pg/ml	215	172	258	
	pmol/l	835	668	1002	Roche Elecsys (Estradiol II)
	pg/ml	227	182	272	
	pmol/l	848	678	1018	Beckman Access
	pg/ml	231	184	278	
	pmol/l	1257	1006	1508	Vitros ECi
	pg/ml	342	274	410	
	pmol/l	837	670	1004	Roche Cobas e601/602 (Estradiol II)
	pg/ml	228	182	274	
	pmol/l	825	660	990	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	224	180	268	
	pmol/l	1106	885	1327	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	301	241	361	
	pmol/l	783	626	940	Tosoh (iE2-hsE2)
	pg/ml	213	170	256	
	pmol/l	1050	840	1260	Siemens Centaur CP
	pg/ml	286	228	344	
	pmol/l	1103	882	1324	Siemens Centaur CP Enhanced (eE2)
	pg/ml	300	240	360	
	pmol/l	839	671	1007	Roche Cobas e601/602 (Estradiol III)
	pg/ml	228	183	273	
	pmol/l	831	665	997	Roche Elecsys (Estradiol III)
	pg/ml	226	181	271	
pmol/l	819	655	983	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	223	178	268		
pmol/l	986	789	1183	Mindray CL Series	
pg/ml	268	215	321		
pmol/l	652	522	782	Diasorin Liaison XL	
pg/ml	177	142	212		
pmol/l	836	669	1003	Beckman Access / Access 2 Sensitive B84493	
pg/ml	227	182	272		
pmol/l	773	618	928	Beckman Dxl600/800 Sensitive B84493	
pg/ml	210	168	252		
pmol/l	1159	927	1391	Siemens Atellica IM	
pg/ml	315	252	378		
pmol/l	738	590	886	Abbott Alinity i	
pg/ml	201	160	242		
pmol/l	841	673	1009	Roche Cobas e801 (Estradiol III)	
pg/ml	229	183	275		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	912	730	1094	Tosoh AIA-CL Series
	pg/ml	248	199	297	
Paracetamol	mmol/l	0.323	0.258	0.388	Roche Cobas c501/502/503/701/702
	mg/l	48.9	39.0	58.8	
	mmol/l	0.326	0.261	0.391	Beckman AU Instruments
	mg/l	49.3	39.5	59.1	
	mmol/l	0.332	0.266	0.398	Abbott Alinity
	mg/l	50.2	40.2	60.2	
Phenobarbital	µmol/l	83.8	67.0	101	Abbott Architect (CMIA)
	µg/ml	19.4	15.5	23.3	
	µmol/l	84.8	67.8	102	Siemens Immulite 2000/2500
	µg/ml	19.7	15.7	23.7	
	µmol/l	72.2	57.8	86.6	Beckman AU400/600/640/2700/5400
	µg/ml	16.8	13.4	20.2	
	µmol/l	114	91.2	137	Siemens Centaur XP/XPT/Classic
	µg/ml	26.4	21.2	31.6	
	µmol/l	74.8	59.8	89.8	Roche Integra
	µg/ml	17.4	13.9	20.9	
	µmol/l	75.0	60.0	90.0	Roche Cobas C303/501/502/503/701
	µg/ml	17.4	13.9	20.9	
Phenytoin	µmol/l	71.9	57.5	86.3	Abbott Alinity (PETINA)
	µg/ml	16.7	13.3	20.1	
	µmol/l	77.6	62.1	93.1	Gravimetric
	µg/ml	18.0	14.4	21.6	
	µmol/l	68.3	54.6	82.0	Abbott Architect
	µg/ml	17.2	13.8	20.6	
	µmol/l	80.2	64.2	96.2	Siemens Centaur XP/XPT/Classic
	µg/ml	20.3	16.2	24.4	
	µmol/l	77.0	61.6	92.4	Siemens Dimension
	µg/ml	19.4	15.6	23.2	
	µmol/l	71.4	57.1	85.7	Roche Integra
	µg/ml	18.0	14.4	21.6	
µmol/l	72.0	57.6	86.4	Vitros	
µg/ml	18.2	14.5	21.9		
µmol/l	67.9	54.3	81.5	Roche Cobas 6000/8000	
µg/ml	17.1	13.7	20.5		
µmol/l	67.7	54.2	81.2	Beckman AU Instruments	
µg/ml	17.1	13.7	20.5		
µmol/l	68.6	54.9	82.3	EMIT	
µg/ml	17.3	13.9	20.7		
µmol/l	75.2	60.2	90.2	Siemens Atellica CH	
µg/ml	19.0	15.2	22.8		
µmol/l	69.7	55.8	83.6	Abbott Alinity	
µg/ml	17.6	14.1	21.1		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	71.3	57.0	85.6	Gravimetric
	µg/ml	18.0	14.4	21.6	
Primidone	µmol/l	22.5	18.0	27.0	Gravimetric
	µg/ml	4.91	3.93	5.89	
Progesterone	nmol/l	28.6	22.9	34.3	Abbott Architect
	ng/ml	8.95	7.17	10.7	
	nmol/l	39.9	31.9	47.9	BioMerieux Vidas
	ng/ml	12.5	9.98	15.0	
	nmol/l	23.9	19.1	28.7	Siemens Centaur XP/XPT/Classic
	ng/ml	7.48	5.98	8.98	
	nmol/l	25.4	20.3	30.5	Siemens Immulite 2000/2500
	ng/ml	7.95	6.35	9.55	
	nmol/l	29.1	23.3	34.9	Siemens Immulite 1000
	ng/ml	9.11	7.29	10.9	
	nmol/l	30.6	24.5	36.7	Beckman Dxl Prog Cal 33555
	ng/ml	9.58	7.67	11.5	
	nmol/l	32.9	26.3	39.5	Roche Elecsys (Prog. II)
	ng/ml	10.3	8.23	12.4	
	nmol/l	30.4	24.3	36.5	Beckman Access Prog Cal 33555
	ng/ml	9.52	7.61	11.4	
	nmol/l	34.6	27.7	41.5	Tosoh Series
	ng/ml	10.8	8.67	12.9	
	nmol/l	35.9	28.7	43.1	Vitros ECi
	ng/ml	11.2	8.98	13.4	
	nmol/l	33.3	26.6	40.0	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	10.4	8.33	12.5	
	nmol/l	33.5	26.8	40.2	Roche Cobas e601/602 (Prog. II)
	ng/ml	10.5	8.39	12.6	
	nmol/l	26.5	21.2	31.8	Beckman Dxl Prog DE Cal A80773
	ng/ml	8.29	6.64	9.94	
	nmol/l	32.5	26.0	39.0	Beckman Access Prog DE Cal A80773
	ng/ml	10.2	8.14	12.3	
	nmol/l	23.4	18.7	28.1	Siemens Centaur CP
	ng/ml	7.32	5.85	8.79	
	nmol/l	40.5	32.4	48.6	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	ng/ml	12.7	10.1	15.3	
nmol/l	33.1	26.5	39.7	Roche Cobas e601/602 (Prog. III)	
ng/ml	10.4	8.29	12.5		
nmol/l	33.0	26.4	39.6	Roche Elecsys (Prog. III)	
ng/ml	10.3	8.26	12.3		
nmol/l	32.9	26.3	39.5	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	10.3	8.23	12.4		
nmol/l	27.5	22.0	33.0	Diasorin Liaison XL	
ng/ml	8.61	6.89	10.3		
nmol/l	26.8	21.4	32.2	Abbott Alinity i	
ng/ml	8.39	6.70	10.1		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	24.8	19.8	29.8	Siemens Atellica IM
	ng/ml	7.76	6.20	9.32	
	nmol/l	32.9	26.3	39.5	Roche Cobas e801 (Prog. III)
	ng/ml	10.3	8.23	12.4	
Prolactin	µU/ml	588	470	706	Abbott Architect
	µU/ml	649	519	779	BioMerieux Vidas
	µU/ml	487	390	584	Siemens Centaur XP/XPT/Classic
	µU/ml	495	396	594	Siemens Immulite 2000/2500
	µU/ml	529	423	635	Siemens Immulite 1000
	µU/ml	505	404	606	Beckman Dxl800
	µU/ml	713	570	856	Roche Elecsys
	µU/ml	618	494	742	Diasorin Liaison
	µU/ml	533	426	640	Beckman Access
	µU/ml	573	458	688	Tosoh Series
	µU/ml	502	402	602	Vitros ECi
	µU/ml	709	567	851	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	627	502	752	Immunotech IRMA
	µU/ml	725	580	870	Roche Cobas 4000/E411
	µU/ml	703	562	844	Roche Cobas e601/602
	µU/ml	477	382	572	Siemens Centaur CP
	µU/ml	653	522	784	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	µU/ml	663	530	796	Diasorin Liaison XL
	µU/ml	455	364	546	Siemens Atellica IM
	µU/ml	610	488	732	Abbott Alinity i
µU/ml	690	552	828	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	10.9	8.18	13.6	Abbott Architect
	ng/ml = µg/l	13.0	9.75	16.3	BioMerieux Vidas
	ng/ml = µg/l	9.42	7.07	11.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	8.84	6.63	11.1	Siemens Immulite 2000/2500
	ng/ml = µg/l	11.8	8.85	14.8	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	9.01	6.76	11.3	Roche Elecsys
	ng/ml = µg/l	9.33	7.00	11.7	Diasorin Liaison
	ng/ml = µg/l	12.2	9.15	15.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	8.92	6.69	11.2	Tosoh Series
	ng/ml = µg/l	9.05	6.79	11.3	Roche Cobas 4000/E411
	ng/ml = µg/l	9.21	6.91	11.5	Roche Cobas e601/602
	ng/ml = µg/l	8.38	6.29	10.5	Siemens Dimension Vista
	ng/ml = µg/l	10.7	8.03	13.4	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.0	9.00	15.0	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.39	6.29	10.5	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	7.54	5.66	9.43	Fujirebio Lumipulse G Series
	ng/ml = µg/l	9.18	6.89	11.5	Diasorin Liaison XL
	ng/ml = µg/l	9.67	7.25	12.1	Siemens Atellica IM
	ng/ml = µg/l	11.1	8.33	13.9	Abbott Alinity i
	ng/ml = µg/l	8.84	6.63	11.1	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	9.01	6.76	11.3	Abbott Architect

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	10.9	8.18	13.6	BioMerieux Vidas
	ng/ml = µg/l	10.7	8.03	13.4	bioMerieux VIDAS TPSA
	ng/ml = µg/l	11.5	8.63	14.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.87	7.40	12.3	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	10.8	8.10	13.5	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	12.4	9.30	15.5	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	10.3	7.73	12.9	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.2	9.15	15.3	Roche Elecsys
	ng/ml = µg/l	10.7	8.03	13.4	Diasorin Liaison
	ng/ml = µg/l	12.7	9.53	15.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	13.0	9.75	16.3	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	8.41	6.31	10.5	Tosoh Series
	ng/ml = µg/l	11.9	8.93	14.9	Vitros ECi
	ng/ml = µg/l	9.04	6.78	11.3	Immunotech IRMA
	ng/ml = µg/l	12.2	9.15	15.3	Roche Cobas 4000/E411
	ng/ml = µg/l	12.2	9.15	15.3	Roche Cobas e601/602
	ng/ml = µg/l	8.31	6.23	10.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	12.1	9.08	15.1	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	10.7	8.03	13.4	Siemens Centaur CP
	ng/ml = µg/l	11.3	8.48	14.1	Diasorin Liaison XL
ng/ml = µg/l	11.9	8.93	14.9	Siemens Atellica IM	
ng/ml = µg/l	9.21	6.91	11.5	Abbott Alinity i	
ng/ml = µg/l	11.9	8.93	14.9	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	1.19	0.952	1.43	Abbott Architect
	mg/dl	16.4	13.1	19.7	
	mmol/l	1.21	0.968	1.45	Roche Cobas c501/502/503
	mg/dl	16.7	13.4	20.0	
	mmol/l	1.18	0.944	1.42	EMIT
	mg/dl	16.3	13.0	19.6	
SHBG	mmol/l	1.22	0.980	1.46	Gravimetric
	mg/dl	16.9	13.5	20.2	
SHBG	nmol/l	35.8	28.6	43.0	Siemens Immulite 2000/2500
	nmol/l	38.0	30.4	45.6	Abbott Architect
	nmol/l	35.3	28.2	42.4	Beckman Dxl800
	nmol/l	36.0	28.8	43.2	Siemens Atellica IM
	nmol/l	34.1	27.3	40.9	Roche analysers - 413417/15
	nmol/l	32.6	26.1	39.1	Roche Cobas e801 - 413429
	nmol/l	36.6	29.3	43.9	Abbott Alinity i
T Uptake	%U	38.6	31.7	45.5	Siemens Immulite 2000
Testosterone	nmol/l	13.8	11.0	16.6	Abbott Architect
	ng/ml	3.97	3.17	4.77	
	ng/dl	397	317	477	
	nmol/l	12.4	9.92	14.9	BioMerieux Vidas
	ng/ml	3.57	2.86	4.28	
	ng/dl	357	286	428	
	nmol/l	14.1	11.3	16.9	Siemens Centaur XP/XPT/Classic
ng/ml	4.06	3.25	4.87		
ng/dl	406	325	487		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	16.0	12.8	19.2	Siemens Immulite 2000/2500
	ng/ml	4.61	3.69	5.53	
	ng/dl	461	369	553	
	nmol/l	15.1	12.1	18.1	Siemens Immulite 1000
	ng/ml	4.35	3.48	5.22	
	ng/dl	435	348	522	
	nmol/l	13.0	10.4	15.6	Beckman Dxl800
	ng/ml	3.74	3.00	4.48	
	ng/dl	374	300	448	
	nmol/l	13.9	11.1	16.7	Beckman Access
	ng/ml	4.00	3.20	4.80	
	ng/dl	400	320	480	
	nmol/l	17.7	14.2	21.2	Tosoh Series
	ng/ml	5.10	4.09	6.11	
	ng/dl	510	409	611	
	nmol/l	18.1	14.5	21.7	Vitros ECi
	ng/ml	5.21	4.18	6.24	
	ng/dl	521	418	624	
	nmol/l	14.7	11.8	17.6	Roche Cobas e601/602 Test II
	ng/ml	4.23	3.40	5.06	
	ng/dl	423	340	506	
	nmol/l	14.7	11.8	17.6	Roche Elecsys Test II
	ng/ml	4.23	3.40	5.06	
	ng/dl	423	340	506	
nmol/l	14.4	11.5	17.3	Roche Cobas 4000/e411 Test II	
ng/ml	4.15	3.31	4.99		
ng/dl	415	331	499		
nmol/l	13.7	11.0	16.4	Abbott Architect 2nd Generation	
ng/ml	3.95	3.17	4.73		
ng/dl	395	317	473		
nmol/l	12.5	10.0	15.0	BioMerieux Vidas Testosterone II	
ng/ml	3.60	2.88	4.32		
ng/dl	360	288	432		
nmol/l	20.1	16.1	24.1	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
ng/ml	5.79	4.64	6.94		
ng/dl	579	464	694		
nmol/l	14.5	11.6	17.4	Siemens Centaur TST II	
ng/ml	4.18	3.34	5.02		
ng/dl	418	334	502		
nmol/l	14.8	11.8	17.8	Siemens Atellica IM	
ng/ml	4.26	3.40	5.12		
ng/dl	426	340	512		
nmol/l	14.4	11.5	17.3	Roche Cobas e801 Test II	
ng/ml	4.15	3.31	4.99		
ng/dl	415	331	499		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	13.5	10.8	16.2	Abbott Alinity i
	ng/ml	3.89	3.11	4.67	
	ng/dl	389	311	467	
Theophylline	µmol/l	84.3	67.4	101	Roche Integra
	µg/ml	15.2	12.1	18.3	
	µmol/l	80.5	64.4	96.6	Roche Cobas 6000/8000
	µg/ml	14.5	11.6	17.4	
	µmol/l	85.7	68.6	103	Beckman AU400/600/640/2700/5400
	µg/ml	15.4	12.4	18.4	
	µmol/l	80.7	64.6	96.8	Abbott Alinity Enzyme-Immu
	µg/ml	14.5	11.6	17.4	
Thyroglobulin	µmol/l	83.8	67.0	101	Gravimetric
	µg/ml	15.1	12.1	18.2	
	ng/ml	13.8	10.4	17.3	Siemens Immulite 1000
	ng/ml	13.8	10.4	17.3	Siemens Immulite 2000
	ng/ml	33.7	25.3	42.1	Roche Elecsys
	ng/ml	27.8	20.9	34.8	Beckman Dxl800
	ng/ml	34.1	25.6	42.6	Roche Cobas 4000/E411
	ng/ml	34.3	25.7	42.9	Roche Cobas e601/602
	ng/ml	28.4	21.3	35.5	Beckman Access
	ng/ml	34.0	25.5	42.5	Abbott Architect 2000i
	ng/ml	31.8	23.9	39.8	Tosoh Series
	ng/ml	33.7	25.3	42.1	Roche Cobas e601/602 Tg II
	ng/ml	34.0	25.5	42.5	Roche Elecsys TGII
	ng/ml	34.6	26.0	43.3	Roche Cobas 4000/E411 TGII
	ng/ml	31.2	23.4	39.0	Diasorin Liaison XL
	ng/ml	33.1	24.8	41.4	Roche Cobas e801 Tg II
ng/ml	32.9	24.7	41.1	DiaSorin Liaison XL TG II Gen	
ng/ml	34.2	25.7	42.8	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.88	1.50	2.26	Abbott Architect
	µU/ml = mIU/l	2.25	1.80	2.70	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.09	1.67	2.51	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.36	1.89	2.83	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	2.23	1.78	2.68	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.30	1.84	2.76	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.17	1.74	2.60	Siemens Immulite 1000
	µU/ml = mIU/l	2.19	1.75	2.63	Beckman Dxl800
	µU/ml = mIU/l	2.52	2.02	3.02	Roche Elecsys
	µU/ml = mIU/l	3.04	2.43	3.65	Diasorin Liaison
	µU/ml = mIU/l	2.15	1.72	2.58	Beckman Access Fast TSH
	µU/ml = mIU/l	2.16	1.73	2.59	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	3.14	2.51	3.77	Tosoh Series
	µU/ml = mIU/l	2.40	1.92	2.88	Vitros ECi
	µU/ml = mIU/l	2.30	1.84	2.76	Immunotech IRMA
µU/ml = mIU/l	2.56	2.05	3.07	Roche Cobas 4000/E411	

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.54	2.03	3.05	Roche Cobas e601/602
	µU/ml = mIU/l	2.15	1.72	2.58	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.00	1.60	2.40	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.29	1.83	2.75	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.19	1.75	2.63	Siemens Centaur CP
	µU/ml = mIU/l	2.13	1.70	2.56	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	2.91	2.33	3.49	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	µU/ml = mIU/l	2.16	1.73	2.59	Beckman Dxl 600/800 Access (3rd IS)
	µU/ml = mIU/l	3.08	2.46	3.70	Diasorin Liaison XL
	µU/ml = mIU/l	2.31	1.85	2.77	Siemens Atellica IM
	µU/ml = mIU/l	1.92	1.54	2.30	Abbott Alinity i
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	17.2	13.8	20.6	Abbott Architect
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	33.8	27.0	40.6	BioMerieux Vidas
	IU/ml	0.034	0.027	0.041	
	mU/ml=IU/l	17.0	13.6	20.4	Siemens Centaur XP/XPT/Classic
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	44.4	35.5	53.3	Siemens Dimension
	IU/ml	0.044	0.036	0.052	
	mU/ml=IU/l	72.6	58.1	87.1	Siemens Immulite 2000
	IU/ml	0.073	0.058	0.088	
	mU/ml=IU/l	58.4	46.7	70.1	Siemens Immulite 1000
	IU/ml	0.058	0.047	0.069	
	mU/ml=IU/l	21.0	16.8	25.2	Beckman Dxl800
	IU/ml	0.021	0.017	0.025	
	mU/ml=IU/l	18.0	14.4	21.6	Diasorin Liaison
	IU/ml	0.018	0.014	0.022	
	mU/ml=IU/l	25.9	20.7	31.1	Roche Cobas Core EIA
	IU/ml	0.026	0.021	0.031	
	mU/ml=IU/l	19.9	15.9	23.9	Beckman Access
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	40.0	32.0	48.0	Tosoh Series
	IU/ml	0.040	0.032	0.048	
	mU/ml=IU/l	39.6	31.7	47.5	Vitros ECi
	IU/ml	0.040	0.032	0.048	
	mU/ml=IU/l	6.10	4.88	7.32	Roche hCG STAT (Intact)
	IU/ml	0.006	0.005	0.007	
mU/ml=IU/l	26.0	20.8	31.2	Roche hCG+Beta	
IU/ml	0.026	0.021	0.031		
mU/ml=IU/l	19.5	15.6	23.4	Beckman Access Total BhCG (5th IS)	
IU/ml	0.020	0.016	0.024		
mU/ml=IU/l	20.7	16.6	24.8	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.021	0.017	0.025		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods	
			low	high		
Total Beta hCG	mU/ml=IU/l	16.9	13.5	20.3	Siemens Centaur CP	
	IU/ml	0.017	0.014	0.020		
	mU/ml=IU/l	14.3	11.4	17.2	Mindray CL Series	
	IU/ml	0.014	0.011	0.017		
	mU/ml=IU/l	17.9	14.3	21.5	Diasorin Liaison XL	
	IU/ml	0.018	0.014	0.022		
	mU/ml=IU/l	18.6	14.9	22.3	Siemens Atellica IM	
	IU/ml	0.019	0.015	0.023		
	mU/ml=IU/l	17.8	14.2	21.4	Abbott Alinity i	
	IU/ml	0.018	0.014	0.022		
Total T3	mU/ml=IU/l	26.2	21.0	31.4	Roche hCG+Beta e801	
	IU/ml	0.026	0.021	0.031		
	mU/ml=IU/l	51.9	41.5	62.3	Tosoh AIA-CL Series	
	IU/ml	0.052	0.042	0.062		
	nmol/l	3.40	2.55	4.25	Abbott Architect	
		ng/ml	2.21	1.66		2.76
		ng/dl	221	166		276
	nmol/l	3.82	2.87	4.78	BioMerieux Vidas	
		ng/ml	2.49	1.87		3.11
		ng/dl	249	187		311
nmol/l	4.21	3.16	5.26	Siemens Centaur XP/XPT/Classic		
	ng/ml	2.74	2.06		3.42	
	ng/dl	274	206		342	
nmol/l	3.59	2.69	4.49	Siemens Immulite 2000/2500		
	ng/ml	2.34	1.75		2.93	
	ng/dl	234	175		293	
nmol/l	3.38	2.54	4.23	Siemens Immulite 1000		
	ng/ml	2.20	1.65		2.75	
	ng/dl	220	165		275	
nmol/l	3.59	2.69	4.49	Beckman Dxl800		
	ng/ml	2.34	1.75		2.93	
	ng/dl	234	175		293	
nmol/l	4.18	3.14	5.23	Roche Elecsys		
	ng/ml	2.72	2.04		3.40	
	ng/dl	272	204		340	
nmol/l	3.73	2.80	4.66	Beckman Access		
	ng/ml	2.43	1.82		3.04	
	ng/dl	243	182		304	
nmol/l	3.62	2.72	4.53	Tosoh Series		
	ng/ml	2.36	1.77		2.95	
	ng/dl	236	177		295	
nmol/l	4.32	3.24	5.40	Vitros ECi		
	ng/ml	2.81	2.11		3.51	
	ng/dl	281	211		351	
nmol/l	4.17	3.13	5.21	Roche Cobas 4000/E411		
	ng/ml	2.71	2.04		3.38	
	ng/dl	271	204		338	

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.09	2.32	3.86	Immunotech RIA
	ng/ml	2.01	1.51	2.51	
	ng/dl	201	151	251	
	nmol/l	4.04	3.03	5.05	Roche Cobas e601/602
	ng/ml	2.63	1.97	3.29	
	ng/dl	263	197	329	
	nmol/l	4.25	3.19	5.31	Siemens Centaur CP
	ng/ml	2.77	2.08	3.46	
	ng/dl	277	208	346	
	nmol/l	3.59	2.69	4.49	Mindray CL Series
	ng/ml	2.34	1.75	2.93	
	ng/dl	234	175	293	
	nmol/l	2.84	2.13	3.55	Diasorin Liaison XL
	ng/ml	1.85	1.39	2.31	
	ng/dl	185	139	231	
nmol/l	3.46	2.60	4.33	Abbott Alinity i	
ng/ml	2.25	1.69	2.81		
ng/dl	225	169	281		
nmol/l	4.37	3.28	5.46	Siemens Atellica IM	
ng/ml	2.84	2.14	3.54		
ng/dl	284	214	354		
nmol/l	4.27	3.20	5.34	Roche Cobas e402/e801	
ng/ml	2.78	2.08	3.48		
ng/dl	278	208	348		
Total T4	nmol/l	113	84.8	141	Abbott Architect
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	123	92.3	154	BioMerieux Vidas
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	131	98.3	164	Siemens Centaur XP/XPT/Classic
	µg/dl	10.2	7.67	12.7	
	ng/ml	102	76.7	127	
	nmol/l	113	84.8	141	Siemens Immulite 2000/2500
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	118	88.5	148	Beckman DxI800
	µg/dl	9.20	6.90	11.5	
	ng/ml	92.0	69.0	115	
nmol/l	112	84.0	140	Roche Elecsys	
µg/dl	8.74	6.55	10.9		
ng/ml	87.4	65.5	109		
nmol/l	126	94.5	158	Beckman Access	
µg/dl	9.83	7.37	12.3		
ng/ml	98.3	73.7	123		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	106	79.5	133	Tosoh Series
	µg/dl	8.27	6.20	10.3	
	ng/ml	82.7	62.0	103	
	nmol/l	113	84.8	141	Vitros ECI
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	113	84.8	141	Roche Cobas 4000/E411
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	110	82.5	138	Roche Cobas e601/602
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
	nmol/l	91.3	68.5	114	Immunotech IRMA
	µg/dl	7.12	5.34	8.90	
	ng/ml	71.2	53.4	89.0	
	nmol/l	125	93.8	156	Siemens Centaur CP
	µg/dl	9.75	7.32	12.2	
	ng/ml	97.5	73.2	122	
	nmol/l	137	103	171	Mindray CL Series
	µg/dl	10.7	8.03	13.4	
ng/ml	107	80.3	134		
nmol/l	100	75.0	125	Diasorin Liaison XL	
µg/dl	7.80	5.85	9.75		
ng/ml	78.0	58.5	97.5		
nmol/l	113	84.8	141	Abbott Alinity i	
µg/dl	8.81	6.61	11.0		
ng/ml	88.1	66.1	110		
nmol/l	127	95.3	159	Siemens Atellica IM	
µg/dl	9.91	7.43	12.4		
ng/ml	99.1	74.3	124		
nmol/l	107	80.3	134	Roche Cobas e402/e801	
µg/dl	8.35	6.26	10.4		
ng/ml	83.5	62.6	104		
Valproic Acid	µmol/l	524	419	629	Abbott Architect (CMIA)
	µg/ml	75.6	60.5	90.7	
	µmol/l	558	446	670	Siemens Centaur XP/XPT/Classic
	µg/ml	80.5	64.4	96.6	
	µmol/l	550	440	660	Siemens Dimension
	µg/ml	79.4	63.5	95.3	
	µmol/l	552	442	662	Siemens Immulite 2000/2500
	µg/ml	79.7	63.8	95.6	
	µmol/l	529	423	635	Roche Integra
	µg/ml	76.3	61.0	91.6	
	µmol/l	545	436	654	Vitros
	µg/ml	78.6	62.9	94.3	
µmol/l	541	433	649	Roche Cobas 6000/8000	
µg/ml	78.1	62.5	93.7		

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	567	454	680	Beckman AU400/600/640/2700/5400
	µg/ml	81.8	65.5	98.1	
	µmol/l	524	419	629	Abbott Architect (PETINA)
	µg/ml	75.6	60.5	90.7	
	µmol/l	593	474	712	EMIT
	µg/ml	85.6	68.4	103	
	µmol/l	546	437	655	Siemens Atellica CH
	µg/ml	78.8	63.1	94.5	
	µmol/l	536	429	643	Abbott Alinity (CMIA)
	µg/ml	77.3	61.9	92.7	
	µmol/l	525	420	630	Abbott Alinity (PETINA)
	µg/ml	75.8	60.6	91.0	
	µmol/l	638	510	766	Gravimetric
	µg/ml	92.1	73.6	111	
Vancomycin	µmol/l	7.00	5.60	8.40	Roche Integra
	µg/ml	10.4	8.32	12.5	
	µmol/l	6.60	5.28	7.92	Ortho Vitros Microslide Systems
	µg/ml	9.81	7.84	11.8	
	µmol/l	8.10	6.48	9.72	Abbott Architect (CMIA)
	µg/ml	12.0	9.63	14.4	
	µmol/l	6.08	4.86	7.30	Siemens Centaur XP/XPT/Classic
	µg/ml	9.03	7.22	10.8	
	µmol/l	7.51	6.01	9.01	Siemens Dimension
	µg/ml	11.2	8.93	13.5	
	µmol/l	7.26	5.81	8.71	Roche Cobas 6000/8000
	µg/ml	10.8	8.63	13.0	
	µmol/l	5.81	4.65	6.97	Thermo Scientific QMS Vancomycin
	µg/ml	8.63	6.91	10.4	
	µmol/l	7.53	6.02	9.04	Abbott Architect (PETINA)
	µg/ml	11.2	8.94	13.5	
	µmol/l	7.35	5.88	8.82	Siemens Atellica CH
	µg/ml	10.9	8.74	13.1	
	µmol/l	7.73	6.18	9.28	Abbott Alinity (CMIA)
	µg/ml	11.5	9.18	13.8	
µmol/l	7.32	5.86	8.78	Abbott Alinity (PETINA)	
µg/ml	10.9	8.71	13.1		
µmol/l	7.10	5.68	8.52	Gravimetric	
µg/ml	10.5	8.44	12.7		
Vitamin B12	pmol/l	358	286	430	Abbott Architect
	pg/ml	485	388	582	
	pmol/l	354	283	425	Siemens Centaur XP/XPT/Classic
	pg/ml	480	383	577	
	pmol/l	371	297	445	Siemens Immulite 2000
	pg/ml	503	402	604	
	pmol/l	278	222	334	Beckman DxI800
	pg/ml	377	301	453	

IMMUNOASSAY PREMIUM - LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2186EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	410	328	492	Roche Elecsys
	pg/ml	556	444	668	
	pmol/l	304	243	365	Beckman Access
	pg/ml	412	329	495	
	pmol/l	492	394	590	Tosoh Series
	pg/ml	667	534	800	
	pmol/l	382	306	458	Vitros ECI
	pg/ml	518	415	621	
	pmol/l	361	289	433	Siemens Dimension
	pg/ml	489	392	586	
	pmol/l	413	330	496	Siemens Centaur CP
	pg/ml	560	447	673	
	pmol/l	396	317	475	Roche Cobas 4000/e411 Gen II
	pg/ml	537	430	644	
	pmol/l	417	334	500	Roche Cobas e601/602 Gen II
	pg/ml	565	453	677	
	pmol/l	454	363	545	Mindray CL Series
	pg/ml	615	492	738	
	pmol/l	372	298	446	Siemens Atellica IM
	pg/ml	504	404	604	
pmol/l	379	303	455	Abbott Alinity i	
pg/ml	514	411	617		
pmol/l	406	325	487	Roche Cobas e801 Gen II	
pg/ml	550	440	660		