

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.	2112EC	EXPIRY:	2024-12-28		

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

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

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

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

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

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

PREPARATION

Immunoassay Premium 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
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IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

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

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Aldosterone	pmol/l	339	254	424	Diasorin Liaison
	pg/ml	122	91.6	152	
	pmol/l	353	265	441	Diasorin Liaison XL
	pg/ml	127	95.6	158	
Alphafoetoprotein	KIU/l = IU/ml	42.6	34.1	51.1	Abbott AFP-EIA
	ng/ml	51.5	41.3	61.7	
	KIU/l = IU/ml	42.8	34.2	51.4	Abbott Architect
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	44.3	35.4	53.2	BioMerieux Vidas
	ng/ml	53.6	42.8	64.4	
	KIU/l = IU/ml	48.5	38.8	58.2	Siemens Centaur XP/XPT/Classic
	ng/ml	58.7	46.9	70.5	
	KIU/l = IU/ml	44.0	35.2	52.8	Siemens Immulite 2000/2500
	ng/ml	53.2	42.6	63.8	
	KIU/l = IU/ml	46.3	37.0	55.6	Siemens Immulite 1000
	ng/ml	56.0	44.8	67.2	
	KIU/l = IU/ml	40.6	32.5	48.7	Beckman Dxl800
	ng/ml	49.1	39.3	58.9	
	KIU/l = IU/ml	46.3	37.0	55.6	Roche Elecsys
	ng/ml	56.0	44.8	67.2	
	KIU/l = IU/ml	42.8	34.2	51.4	Diasorin Liaison
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	42.8	34.2	51.4	Beckman Access
	ng/ml	51.8	41.4	62.2	
	KIU/l = IU/ml	42.0	33.6	50.4	Tosoh Series
	ng/ml	50.8	40.7	60.9	
	KIU/l = IU/ml	43.8	35.0	52.6	Vitros ECi
	ng/ml	45.6	36.5	54.7	
	KIU/l = IU/ml	47.6	38.1	57.1	Roche Cobas e601/602
	ng/ml	57.6	46.1	69.1	
	KIU/l = IU/ml	66.0	52.8	79.2	CIS IRMA
	ng/ml	79.9	63.9	95.9	
	KIU/l = IU/ml	48.6	38.9	58.3	Roche Cobas 4000/E411
	ng/ml	58.8	47.1	70.5	
	KIU/l = IU/ml	45.4	36.3	54.5	Fujirebio Lumipulse G Series
	ng/ml	54.9	43.9	65.9	
KIU/l = IU/ml	46.1	36.9	55.3	Siemens Dimension	
ng/ml	55.8	44.6	67.0		
KIU/l = IU/ml	49.6	39.7	59.5	Siemens Centaur CP	
ng/ml	60.0	48.0	72.0		
KIU/l = IU/ml	48.9	39.1	58.7	Sysmex HISCL Series	
ng/ml	59.2	47.3	71.1		
KIU/l = IU/ml	49.3	39.4	59.2	Diasorin Liaison XL	
ng/ml	59.7	47.7	71.7		
KIU/l = IU/ml	48.2	38.6	57.8	Siemens Atellica IM	
ng/ml	58.3	46.7	69.9		

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Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

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

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Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	2.100	1.580	2.630	Roche Cobas 4000/E411
	ng/ml	6.34	4.77	7.91	
	nmol/l	1.880	1.410	2.350	Abbott Architect
	ng/ml	5.68	4.26	7.10	
	nmol/l	1.360	1.020	1.700	Siemens Centaur XP/XPT/Classic
	ng/ml	4.11	3.08	5.14	
	nmol/l	1.780	1.340	2.230	Tosoh Series
	ng/ml	5.37	4.05	6.69	
	nmol/l	2.140	1.610	2.680	Diasorin Liaison XL
	ng/ml	6.46	4.86	8.06	
	nmol/l	2.030	1.520	2.540	Roche Cobas e402/e801
	ng/ml	6.13	4.59	7.67	
	nmol/l	1.290	0.968	1.610	Siemens Atellica IM
	ng/ml	3.89	2.92	4.86	
	nmol/l	1.930	1.450	2.410	Vitros Eci
	ng/ml	5.83	4.38	7.28	
nmol/l	1.260	0.945	1.580	Beckman Access	
ng/ml	3.80	2.85	4.75		
nmol/l	1.840	1.380	2.300	Abbott Alinity i	
ng/ml	5.55	4.17	6.93		
Carbamazepine	µmol/l	38.7	31.0	46.4	Abbott Architect (CMIA)
	µg/ml	9.15	7.33	11.0	
	µmol/l	42.8	34.2	51.4	Siemens Centaur XP/XPT/Classic
	µg/ml	10.1	8.08	12.1	
	µmol/l	34.5	27.6	41.4	Siemens Dimension
	µg/ml	8.16	6.52	9.80	
	µmol/l	32.5	26.0	39.0	Siemens Immulite 2000/2500
	µg/ml	7.68	6.15	9.21	
	µmol/l	38.0	30.4	45.6	Roche Integra
	µg/ml	8.98	7.19	10.8	
	µmol/l	38.3	30.6	46.0	Vitros
	µg/ml	9.05	7.23	10.9	
	µmol/l	38.7	31.0	46.4	Roche Cobas 6000/8000
	µg/ml	9.15	7.33	11.0	
	µmol/l	39.3	31.4	47.2	Beckman DxC
	µg/ml	9.29	7.42	11.2	
	µmol/l	39.7	31.8	47.6	Beckman AU400/600/640/2700/5400
	µg/ml	9.39	7.52	11.3	
	µmol/l	31.9	25.5	38.3	Abbott Architect (PETINA)
	µg/ml	7.54	6.03	9.05	
µmol/l	40.3	32.2	48.4	EMIT	
µg/ml	9.53	7.61	11.5		
µmol/l	36.3	29.0	43.6	Siemens Atellica CH	
µg/ml	8.58	6.86	10.3		
µmol/l	30.1	24.1	36.1	Abbott Alinity (PETINA)	
µg/ml	7.12	5.70	8.54		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	38.5	30.8	46.2	Gravimetric
	µg/ml	9.10	7.28	10.9	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	33.6	26.9	40.3	Abbott Architect
	ng/ml = µg/l	24.9	19.9	29.9	BioMerieux Vidas
	ng/ml = µg/l	26.5	21.2	31.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	26.2	21.0	31.4	CIS RIA Coated tube
	ng/ml = µg/l	36.4	29.1	43.7	Siemens Immulite 2000/2500
	ng/ml = µg/l	37.9	30.3	45.5	Siemens Immulite 1000
	ng/ml = µg/l	24.4	19.5	29.3	Beckman Dxl800
	ng/ml = µg/l	24.7	19.8	29.6	Roche Elecsys
	ng/ml = µg/l	22.5	18.0	27.0	Diasorin Liaison
	ng/ml = µg/l	25.8	20.6	31.0	Beckman Access
	ng/ml = µg/l	38.6	30.9	46.3	Tosoh Series
	ng/ml = µg/l	29.0	23.2	34.8	Vitros ECi
	ng/ml = µg/l	24.4	19.5	29.3	Roche Cobas e601/602
	ng/ml = µg/l	24.8	19.8	29.8	Roche Cobas 4000/E411
	ng/ml = µg/l	34.0	27.2	40.8	Fujirebio Lumipulse G Series
	ng/ml = µg/l	32.5	26.0	39.0	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	26.6	21.3	31.9	Siemens Centaur CP
	ng/ml = µg/l	24.9	19.9	29.9	Diasorin Liaison XL
	ng/ml = µg/l	26.0	20.8	31.2	Siemens Atellica IM
	ng/ml = µg/l	24.4	19.5	29.3	Roche Cobas e402/e801
ng/ml = µg/l	32.9	26.3	39.5	Abbott Alinity i	
Cortisol	nmol/l	559	419	699	Abbott Architect
	µg/dl	20.1	15.1	25.1	
	nmol/l	579	434	724	BioMerieux Vidas
	µg/dl	20.8	15.6	26.0	
	nmol/l	734	551	918	Siemens Centaur XP/XPT/Classic
	µg/dl	26.4	19.8	33.0	
	nmol/l	514	386	643	CIS RIA
	µg/dl	18.5	13.9	23.1	
	nmol/l	583	437	729	Siemens Immulite 2000/2500
	µg/dl	21.0	15.7	26.3	
	nmol/l	669	502	836	Siemens Immulite 1000
	µg/dl	24.1	18.1	30.1	
	nmol/l	626	470	783	Beckman Dxl800
	µg/dl	22.5	16.9	28.1	
	nmol/l	618	464	773	Roche Elecsys
	µg/dl	22.2	16.7	27.7	
	nmol/l	678	509	848	Beckman Access
	µg/dl	24.4	18.3	30.5	
	nmol/l	677	508	846	Tosoh Series
	µg/dl	24.4	18.3	30.5	
nmol/l	586	440	733	Vitros ECi	
µg/dl	21.1	15.8	26.4		
nmol/l	631	473	789	Roche Cobas e601/602	
µg/dl	22.7	17.0	28.4		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Cortisol	nmol/l	663	497	829	Roche Cobas 4000/E411	
	µg/dl	23.9	17.9	29.9		
	nmol/l	787	590	984	Siemens Centaur CP	
	µg/dl	28.3	21.2	35.4		
	nmol/l	636	477	795	Roche Cobas 4000/e411 Gen II	
	µg/dl	22.9	17.2	28.6		
	nmol/l	627	470	784	Roche Cobas e601/602 Gen II	
	µg/dl	22.6	16.9	28.3		
	nmol/l	646	485	808	Roche Elecsys Gen II	
	µg/dl	23.3	17.5	29.1		
	nmol/l	594	446	743	Diasorin Liaison XL	
	µg/dl	21.4	16.1	26.7		
	nmol/l	760	570	950	Siemens Atellica IM	
	µg/dl	27.4	20.5	34.3		
DHEA-S	nmol/l	627	470	784	Roche Cobas e402/e801	
	µg/dl	22.6	16.9	28.3		
	nmol/l	690	518	863	Tosoh AIA-CL Series	
	µg/dl	24.8	18.6	31.0		
	nmol/l	556	417	695	Abbott Alinity i	
	µg/dl	20.0	15.0	25.0		
	Digoxin	µmol/l	13.5	10.8	16.2	Abbott Architect
		µmol/l	11.9	9.52	14.3	Siemens Immulite 2000/2500
		µmol/l	10.6	8.48	12.7	Siemens Immulite 1000
		µmol/l	11.5	9.20	13.8	Beckman Dxl800
		µmol/l	18.8	15.0	22.6	Roche Elecsys
		µmol/l	12.3	9.84	14.8	Beckman Access
		µmol/l	10.9	8.72	13.1	Siemens Centaur XP/XPT/Classic
		µmol/l	16.9	13.5	20.3	Roche Cobas 4000/E411
µmol/l		16.7	13.4	20.0	Roche Cobas e601/602	
µmol/l		10.0	8.00	12.0	Diasorin Liaison XL	
µmol/l		11.2	8.96	13.4	Siemens Atellica IM	
µmol/l		15.9	12.7	19.1	Roche Cobas e402/e801	
µmol/l		13.7	11.0	16.4	Abbott Alinity i	
Digoxin	nmol/l	2.38	1.90	2.86	Abbott Architect (CMIA)	
	ng/ml	1.86	1.48	2.24		
	nmol/l	2.60	2.08	3.12	BioMerieux Vidas	
	ng/ml	2.03	1.62	2.44		
	nmol/l	3.13	2.50	3.76	Siemens Centaur XP/XPT/Classic	
	ng/ml	2.44	1.95	2.93		
	nmol/l	2.78	2.22	3.34	Siemens Dimension	
	ng/ml	2.17	1.73	2.61		
	nmol/l	2.91	2.33	3.49	Siemens Immulite 2000/2500	
	ng/ml	2.27	1.82	2.72		
	nmol/l	2.81	2.25	3.37	Beckman Dxl800	
	ng/ml	2.19	1.76	2.62		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.57	2.06	3.08	Roche Integra
	ng/ml	2.01	1.61	2.41	
	nmol/l	2.81	2.25	3.37	Roche Cobas e601/602
	ng/ml	2.19	1.76	2.62	
	nmol/l	2.87	2.30	3.44	Beckman AU400/600/640/2700/5400
	ng/ml	2.24	1.80	2.68	
	nmol/l	2.84	2.27	3.41	Roche Cobas 4000/E411
	ng/ml	2.22	1.77	2.67	
	nmol/l	2.53	2.02	3.04	Abbott Architect (PETINA)
	ng/ml	1.98	1.58	2.38	
	nmol/l	2.75	2.20	3.30	Roche Cobas e402/e801
	ng/ml	2.15	1.72	2.58	
	nmol/l	3.15	2.52	3.78	Siemens Atellica IM
	ng/ml	2.46	1.97	2.95	
	nmol/l	2.84	2.27	3.41	Siemens Atellica CH
	ng/ml	2.22	1.77	2.67	
	nmol/l	2.54	2.03	3.05	Abbott Alinity (CMIA)
	ng/ml	1.98	1.59	2.37	
nmol/l	2.69	2.15	3.23	Abbott Alinity (PETINA)	
ng/ml	2.10	1.68	2.52		
nmol/l	3.07	2.46	3.68	Gravimetric	
ng/ml	2.40	1.92	2.87		
nmol/l	2.75	2.20	3.30	Roche Cobas C303/501/502/503/701	
ng/ml	2.15	1.72	2.58		
Ethosuximide	µmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	93.2	74.6	112	Abbott Architect
	ng/ml = µg/l	67.0	53.6	80.4	BioMerieux Vidas
	ng/ml = µg/l	64.7	51.8	77.6	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	87.2	69.8	105	Siemens Dimension
	ng/ml = µg/l	75.7	60.6	90.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	66.0	52.8	79.2	Siemens Immulite 1000
	ng/ml = µg/l	58.9	47.1	70.7	Beckman DxI800
	ng/ml = µg/l	91.9	73.5	110	Roche Elecsys/Cobas e411
	ng/ml = µg/l	74.6	59.7	89.5	Diasorin Liaison
	ng/ml = µg/l	91.0	72.8	109	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	60.1	48.1	72.1	Beckman Access
	ng/ml = µg/l	59.4	47.5	71.3	Tosoh Series
	ng/ml = µg/l	54.2	43.4	65.0	Vitros ECi
	ng/ml = µg/l	88.5	70.8	106	Roche Cobas 4000/c311
	ng/ml = µg/l	72.8	58.2	87.4	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	91.1	72.9	109	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	66.2	53.0	79.4	Siemens Centaur CP
	ng/ml = µg/l	87.6	70.1	105	Diasorin Liaison XL
ng/ml = µg/l	95.1	76.1	114	Abbott Alinity i	
ng/ml = µg/l	60.5	48.4	72.6	Siemens Atellica IM	

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	91.2	73.0	109	Roche Cobas e402/e801
Folate	nmol/l	9.89	7.52	12.3	Abbott Architect
	ng/ml	4.36	3.32	5.40	
	nmol/l	22.5	17.1	27.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	9.92	7.54	12.3	
	nmol/l	8.44	6.41	10.5	Siemens Immulite 2000
	ng/ml	3.72	2.83	4.61	
	nmol/l	11.5	8.74	14.3	Beckman Dxl 600 / 800 - A14208
	ng/ml	5.07	3.85	6.29	
	nmol/l	11.8	8.97	14.6	Beckman Access
	ng/ml	5.20	3.96	6.44	
	nmol/l	7.68	5.84	9.52	Vitros ECi
	ng/ml	3.39	2.58	4.20	
	nmol/l	6.76	5.14	8.38	Siemens Dimension
	ng/ml	2.98	2.27	3.69	
	nmol/l	11.9	9.04	14.8	Beckman Dxl 600 / 800 - A98032
	ng/ml	5.25	3.99	6.51	
	nmol/l	26.5	20.1	32.9	Siemens Centaur CP (enhanced kit)
	ng/ml	11.7	8.86	14.5	
	nmol/l	10.8	8.21	13.4	Roche Folate III - 04476433
	ng/ml	4.76	3.62	5.90	
nmol/l	10.8	8.21	13.4	Roche Elecsys Folate	
ng/ml	4.76	3.62	5.90		
nmol/l	11.1	8.44	13.8	Roche Folate III - 07559992	
ng/ml	4.90	3.72	6.08		
nmol/l	19.9	15.1	24.7	Siemens Atellica IM	
ng/ml	8.78	6.66	10.9		
nmol/l	10.7	8.13	13.3	Abbott Alinity i	
ng/ml	4.72	3.59	5.85		
nmol/l	11.6	8.82	14.4	Roche Folate 07027290 e801	
ng/ml	5.12	3.89	6.35		
Free T3	pmol/l	10.6	7.95	13.3	Abbott Architect, 2 point calibration
	ng/dl	0.689	0.517	0.861	
	pg/ml	6.90	5.18	8.62	
	pmol/l	11.6	8.70	14.5	BioMerieux Vidas
	ng/dl	0.754	0.566	0.942	
	pg/ml	7.55	5.66	9.44	
	pmol/l	11.8	8.85	14.8	Siemens Centaur XP/XPT/Classic
	ng/dl	0.767	0.575	0.959	
	pg/ml	7.68	5.76	9.60	
	pmol/l	8.47	6.35	10.6	Siemens Immulite 2000/2500
	ng/dl	0.551	0.413	0.689	
	pg/ml	5.51	4.13	6.89	
pmol/l	9.21	6.91	11.5	Siemens Immulite 1000	
ng/dl	0.599	0.449	0.749		
pg/ml	6.00	4.50	7.50		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	8.46	6.35	10.6	Beckman Dxl800
	ng/dl	0.550	0.413	0.687	
	pg/ml	5.51	4.13	6.89	
	pmol/l	13.7	10.3	17.1	Roche Elecsys
	ng/dl	0.891	0.670	1.11	
	pg/ml	8.92	6.71	11.1	
	pmol/l	14.6	11.0	18.3	Diasorin Liaison
	ng/dl	0.949	0.715	1.18	
	pg/ml	9.50	7.16	11.8	
	pmol/l	9.44	7.08	11.8	Beckman Access
	ng/dl	0.614	0.460	0.768	
	pg/ml	6.15	4.61	7.69	
	pmol/l	15.6	11.7	19.5	Tosoh Series
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.2	7.62	12.8	
	pmol/l	28.4	21.3	35.5	Vitros ECi
	ng/dl	1.85	1.38	2.32	
	pg/ml	18.5	13.9	23.1	
	pmol/l	13.5	10.1	16.9	Roche Cobas 4000/E411
	ng/dl	0.878	0.657	1.10	
	pg/ml	8.79	6.58	11.0	
	pmol/l	13.6	10.2	17.0	Roche Cobas e601/602
	ng/dl	0.884	0.663	1.11	
	pg/ml	8.85	6.64	11.1	
	pmol/l	13.9	10.4	17.4	Fujirebio Lumipulse G Series
	ng/dl	0.904	0.676	1.13	
	pg/ml	9.05	6.77	11.3	
	pmol/l	12.0	9.00	15.0	Siemens Centaur CP
	ng/dl	0.780	0.585	0.975	
	pg/ml	7.81	5.86	9.76	
pmol/l	14.0	10.5	17.5	Sysmex HISCL Series	
ng/dl	0.910	0.683	1.14		
pg/ml	9.11	6.84	11.4		
pmol/l	15.5	11.6	19.4	Diasorin Liaison XL	
ng/dl	1.01	0.754	1.27		
pg/ml	10.1	7.55	12.7		
pmol/l	12.5	9.38	15.6	Siemens Atellica IM	
ng/dl	0.813	0.610	1.02		
pg/ml	8.14	6.11	10.2		
pmol/l	11.1	8.33	13.9	Abbott Alinity, 2 point cal	
ng/dl	0.722	0.541	0.903		
pg/ml	7.23	5.42	9.04		
pmol/l	10.7	8.03	13.4	Abbott Architect, 6 point calibration	
ng/dl	0.696	0.522	0.870		
pg/ml	6.97	5.23	8.71		
pmol/l	13.6	10.2	17.0	Roche Cobas e402/e801	
ng/dl	0.884	0.663	1.11		
pg/ml	8.85	6.64	11.1		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	12.5	9.38	15.6	Tosoh AIA-CL Series
	ng/dl	0.813	0.610	1.02	
	pg/ml	8.14	6.11	10.2	
	pmol/l	11.1	8.33	13.9	Abbott Alinity, 6 point cal
	ng/dl	0.722	0.541	0.903	
	pg/ml	7.23	5.42	9.04	
Free T4	pmol/l	21.6	16.2	27.0	Abbott Architect
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	22.6	17.0	28.3	Siemens Centaur XP/XPT/Classic
	ng/dl	1.76	1.33	2.19	
	pg/ml	17.6	13.3	21.9	
	pmol/l	30.1	22.6	37.6	CIS RIA Coated tube
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	pmol/l	32.2	24.2	40.3	Siemens Immulite 2000/2500
	ng/dl	2.51	1.89	3.13	
	pg/ml	25.1	18.9	31.3	
	pmol/l	33.1	24.8	41.4	Siemens Immulite 1000
	ng/dl	2.58	1.93	3.23	
	pg/ml	25.8	19.3	32.3	
	pmol/l	23.9	17.9	29.9	Beckman Dxl800
	ng/dl	1.86	1.40	2.32	
	pg/ml	18.6	14.0	23.2	
	pmol/l	28.8	21.6	36.0	Roche Elecsys
	ng/dl	2.25	1.68	2.82	
	pg/ml	22.5	16.8	28.2	
	pmol/l	33.0	24.8	41.3	Diasorin Liaison
	ng/dl	2.57	1.93	3.21	
	pg/ml	25.7	19.3	32.1	
pmol/l	24.8	18.6	31.0	Beckman Access	
ng/dl	1.93	1.45	2.41		
pg/ml	19.3	14.5	24.1		
pmol/l	30.5	22.9	38.1	Tosoh Series	
ng/dl	2.38	1.79	2.97		
pg/ml	23.8	17.9	29.7		
pmol/l	63.5	47.6	79.4	Vitros ECi	
ng/dl	4.95	3.71	6.19		
pg/ml	49.5	37.1	61.9		
pmol/l	29.3	22.0	36.6	BioMerieux Vidas	
ng/dl	2.29	1.72	2.86		
pg/ml	22.9	17.2	28.6		
pmol/l	29.1	21.8	36.4	Roche Cobas e601/602	
ng/dl	2.27	1.70	2.84		
pg/ml	22.7	17.0	28.4		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	21.5	16.1	26.9	Immunotech IRMA
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	29.0	21.8	36.3	Roche Cobas 4000/E411
	ng/dl	2.26	1.70	2.82	
	pg/ml	22.6	17.0	28.2	
	pmol/l	30.1	22.6	37.6	Biomerieux Vidas FT4N Kit
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	pmol/l	23.1	17.3	28.9	Fujirebio Lumipulse G Series
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	24.4	18.3	30.5	Siemens Dimension Exl LOCI
	ng/dl	1.90	1.43	2.37	
	pg/ml	19.0	14.3	23.7	
	pmol/l	23.0	17.3	28.8	Siemens Centaur CP
	ng/dl	1.79	1.35	2.23	
	pg/ml	17.9	13.5	22.3	
	pmol/l	30.6	23.0	38.3	Sysmex HISCL Series
	ng/dl	2.39	1.79	2.99	
	pg/ml	23.9	17.9	29.9	
	pmol/l	35.2	26.4	44.0	Diasorin Liaison XL
	ng/dl	2.75	2.06	3.44	
	pg/ml	27.5	20.6	34.4	
pmol/l	23.1	17.3	28.9	Siemens Atellica IM	
ng/dl	1.80	1.35	2.25		
pg/ml	18.0	13.5	22.5		
pmol/l	20.8	15.6	26.0	Abbott Alinity i	
ng/dl	1.62	1.22	2.02		
pg/ml	16.2	12.2	20.2		
pmol/l	29.2	21.9	36.5	Roche Cobas e402/e801	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
pmol/l	29.2	21.9	36.5	Tosoh AIA-CL Series	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
FSH	mU/ml	24.1	19.3	28.9	Abbott Architect
	mU/ml	28.8	23.0	34.6	BioMerieux Vidas
	mU/ml	30.3	24.2	36.4	Siemens Centaur XP/XPT/Classic
	mU/ml	25.7	20.6	30.8	Siemens Immulite 2000/2500
	mU/ml	26.7	21.4	32.0	Siemens Immulite 1000
	mU/ml	28.6	22.9	34.3	Beckman DxI800
	mU/ml	26.3	21.0	31.6	Roche/BM Elecsys
	mU/ml	27.9	22.3	33.5	Beckman Access
	mU/ml	29.2	23.4	35.0	Tosoh Series

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	20.0	16.0	24.0	Vitros ECI
	mU/ml	27.2	21.8	32.6	Roche Cobas 4000/E411
	mU/ml	25.0	20.0	30.0	Roche Cobas e601/602
	mU/ml	23.2	18.6	27.8	Fujirebio Lumipulse G Series
	mU/ml	29.1	23.3	34.9	Siemens Centaur CP
	mU/ml	37.0	29.6	44.4	Diasorin Liaison XL
	mU/ml	30.0	24.0	36.0	Siemens Atellica IM
	mU/ml	24.7	19.8	29.6	Abbott Alinity i
	mU/ml	25.4	20.3	30.5	Roche Cobas e402/e801
Gentamicin	µmol/l	7.85	6.28	9.42	Roche Integra
	µg/ml	3.75	3.00	4.50	
	µmol/l	8.70	6.96	10.4	Siemens Centaur XP/XPT/Classic
	µg/ml	4.16	3.33	4.99	
	µmol/l	8.54	6.83	10.2	Abbott Architect (CMIA)
	µg/ml	4.08	3.26	4.90	
	µmol/l	8.67	6.94	10.4	Siemens Dimension Vista
	µg/ml	4.14	3.32	4.96	
	µmol/l	6.20	4.96	7.44	Roche Cobas 6000/8000 Online KIMS
	µg/ml	2.96	2.37	3.55	
	µmol/l	8.15	6.52	9.78	Roche Cobas 6000/8000 CEDIA
	µg/ml	3.90	3.12	4.68	
	µmol/l	8.26	6.61	9.91	Abbott Architect (PETINA)
	µg/ml	3.95	3.16	4.74	
	µmol/l	9.85	7.88	11.8	EMIT
	µg/ml	4.71	3.77	5.65	
	µmol/l	8.09	6.47	9.71	Siemens Atellica CH
	µg/ml	3.87	3.09	4.65	
Growth Hormone (GH)	µU/ml	18.3	14.6	22.0	Siemens Immulite 2000/2500
	ng/ml	6.09	4.86	7.32	
	µU/ml	16.5	13.2	19.8	Siemens Immulite 1000
	ng/ml	5.49	4.40	6.58	
	µU/ml	13.5	10.8	16.2	Beckman Dxl800
	ng/ml	4.50	3.60	5.40	
	µU/ml	14.6	11.7	17.5	Beckman Access
	ng/ml	4.86	3.90	5.82	
	µU/ml	18.0	14.4	21.6	Tosoh Series
	ng/ml	5.99	4.80	7.18	
	µU/ml	14.5	11.6	17.4	Diasorin Liaison
	ng/ml	4.83	3.86	5.80	
	µU/ml	16.2	13.0	19.4	Roche Cobas 4000/E411
	ng/ml	5.39	4.33	6.45	
	µU/ml	16.4	13.1	19.7	Roche Cobas e601/602
ng/ml	5.46	4.36	6.56		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	µU/ml	14.2	11.4	17.0	Diasorin Liaison XL
	ng/ml	4.73	3.80	5.66	
	µU/ml	16.4	13.1	19.7	Roche Cobas e402/e801
	ng/ml	5.46	4.36	6.56	
	µU/ml	15.7	12.6	18.8	Tosoh AIA-CL Series
	ng/ml	5.23	4.20	6.26	
Immunoglobulin E	KIU/I = IU/ml	107	85.6	128	Abbott Architect
	KIU/I = IU/ml	119	95.2	143	BioMerieux Vidas
	KIU/I = IU/ml	128	102	154	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	131	105	157	Siemens Immulite 2000/2500
	KIU/I = IU/ml	130	104	156	Siemens Immulite 1000
	KIU/I = IU/ml	140	112	168	Roche Elecsys
	KIU/I = IU/ml	122	97.6	146	Pharmacia Unicap
	KIU/I = IU/ml	116	92.8	139	Tosoh Series
	KIU/I = IU/ml	142	114	170	Roche Cobas 4000/E411
	KIU/I = IU/ml	138	110	166	Roche Cobas e601/602
	KIU/I = IU/ml	123	98.4	148	Siemens Centaur CP
	KIU/I = IU/ml	155	124	186	Agappe Mispa i2
	KIU/I = IU/ml	131	105	157	Siemens Atellica IM
	KIU/I = IU/ml	141	113	169	Roche Cobas e402/e801
KIU/I = IU/ml	108	86.4	130	Abbott Alinity	
Insulin	mU/l	12.2	9.15	15.3	Siemens Centaur XP/XPT/Classic
	µU/ml	12.2	9.15	15.3	
	mU/l	5.11	3.83	6.39	Siemens Immulite 1000
	µU/ml	5.11	3.83	6.39	
	mU/l	5.12	3.84	6.40	Siemens Immulite 2000
	µU/ml	5.12	3.84	6.40	
	mU/l	14.0	10.5	17.5	Roche Elecsys
	µU/ml	14.0	10.5	17.5	
	mU/l	10.7	8.03	13.4	Beckman Access
	µU/ml	10.7	8.03	13.4	
	mU/l	11.1	8.33	13.9	Abbott Architect
	µU/ml	11.1	8.33	13.9	
	mU/l	16.5	12.4	20.6	Tosoh Series
	µU/ml	16.5	12.4	20.6	
	mU/l	14.1	10.6	17.6	Roche Cobas 4000/E411
	µU/ml	14.1	10.6	17.6	
	mU/l	10.2	7.65	12.8	Beckman Dxl 600/800
	µU/ml	10.2	7.65	12.8	
	mU/l	15.0	11.3	18.8	Diasorin Liaison
	µU/ml	15.0	11.3	18.7	
mU/l	13.9	10.4	17.4	Roche Cobas 6000/8000	
µU/ml	13.9	10.4	17.4		
mU/l	12.7	9.53	15.9	Fujirebio Lumipulse G Series	
µU/ml	12.7	9.53	15.9		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Insulin	mU/l	15.8	11.9	19.8	Diasorin Liaison XL	
	µU/ml	15.8	11.9	19.7		
	mU/l	12.3	9.23	15.4	Siemens Atellica IM	
	µU/ml	12.3	9.23	15.4		
	mU/l	9.99	7.49	12.5	Abbott Alinity i	
	µU/ml	9.99	7.49	12.5		
	mU/l	17.4	13.1	21.8	Tosoh AIA-CL Series	
	µU/ml	17.4	13.1	21.7		
	mU/l	10.9	8.18	13.6	Vitros ECi	
	µU/ml	10.9	8.18	13.6		
	Luteinising Hormone (LH)	mU/ml	25.2	20.2	30.2	Abbott Architect
		mU/ml	28.7	23.0	34.4	BioMerieux Vidas
mU/ml		31.7	25.4	38.0	Siemens Centaur XP/XPT/Classic	
mU/ml		43.6	34.9	52.3	Siemens Immulite 2000	
mU/ml		47.7	38.2	57.2	Siemens Immulite 1000	
mU/ml		26.2	21.0	31.4	Beckman Dxl800	
mU/ml		34.1	27.3	40.9	Roche Elecsys	
mU/ml		37.8	30.2	45.4	Diasorin Liaison	
mU/ml		27.1	21.7	32.5	Beckman Access	
mU/ml		28.5	22.8	34.2	Tosoh Series	
mU/ml		41.5	33.2	49.8	Vitros ECi	
mU/ml		34.8	27.8	41.8	Roche Cobas 4000/E411	
mU/ml		34.5	27.6	41.4	Roche Cobas e601/602	
mU/ml		28.5	22.8	34.2	Fujirebio Lumipulse G Series	
mU/ml		31.9	25.5	38.3	Siemens Centaur CP	
mU/ml		39.6	31.7	47.5	Diasorin Liaison XL	
mU/ml		32.2	25.8	38.6	Siemens Atellica IM	
mU/ml		24.7	19.8	29.6	Abbott Alinity i	
mU/ml		34.6	27.7	41.5	Roche Cobas e402/e801	
Oestradiol		pmol/l	672	538	806	Abbott Architect
	pg/ml	183	146	220		
	pmol/l	1346	1077	1615	BioMerieux Vidas	
	pg/ml	366	293	439		
	pmol/l	958	766	1150	Siemens Centaur XP/XPT/Classic	
	pg/ml	261	208	314		
	pmol/l	984	787	1181	Siemens Immulite 2000/2500	
	pg/ml	268	214	322		
	pmol/l	967	774	1160	Siemens Immulite 1000	
	pg/ml	263	211	315		
	pmol/l	682	546	818	Beckman Dxl800	
	pg/ml	186	149	223		
	pmol/l	704	563	845	Roche Elecsys (Estradiol II)	
	pg/ml	191	153	229		
	pmol/l	808	646	970	Beckman Access	
	pg/ml	220	176	264		
pmol/l	800	640	960	Tosoh (E2)		
pg/ml	218	174	262			

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1095	876	1314	Vitros ECI
	pg/ml	298	238	358	
	pmol/l	602	482	722	Diasorin Liaison
	pg/ml	164	131	197	
	pmol/l	721	577	865	Roche Cobas e601/602 (Estradiol II)
	pg/ml	196	157	235	
	pmol/l	741	593	889	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	202	161	243	
	pmol/l	964	771	1157	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	262	210	314	
	pmol/l	989	791	1187	Siemens Centaur XP/XPT/Classic E26 III
	pg/ml	269	215	323	
	pmol/l	720	576	864	Tosoh (iE2-hsE2)
	pg/ml	196	157	235	
	pmol/l	987	790	1184	Siemens Centaur CP
	pg/ml	268	215	321	
	pmol/l	970	776	1164	Siemens Centaur CP Enhanced (eE2)
	pg/ml	264	211	317	
	pmol/l	735	588	882	Roche Cobas e601/602 (Estradiol III)
	pg/ml	200	160	240	
pmol/l	731	585	877	Roche Elecsys (Estradiol III)	
pg/ml	199	159	239		
pmol/l	728	582	874	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	198	158	238		
pmol/l	551	441	661	Diasorin Liaison XL	
pg/ml	150	120	180		
pmol/l	761	609	913	Beckman Access / Access 2 Sensitive B84493	
pg/ml	207	166	248		
pmol/l	682	546	818	Beckman DxI600/800 Sensitive B84493	
pg/ml	186	149	223		
pmol/l	1005	804	1206	Siemens Atellica IM	
pg/ml	273	219	327		
pmol/l	664	531	797	Abbott Alinity i	
pg/ml	181	144	218		
pmol/l	727	582	872	Roche Cobas e801 (Estradiol III)	
pg/ml	198	158	238		
pmol/l	823	658	988	Tosoh AIA-CL Series	
pg/ml	224	179	269		
Paracetamol	mmol/l	0.336	0.269	0.403	Abbott Architect
	mg/l	50.8	40.7	60.9	
	mmol/l	0.320	0.256	0.384	Roche Cobas c501/502/503/701/702
	mg/l	48.4	38.7	58.1	
	mmol/l	0.339	0.271	0.407	Beckman AU Instruments
	mg/l	51.3	41.0	61.6	
	mmol/l	0.334	0.267	0.401	Abbott Alinity
	mg/l	50.5	40.4	60.6	

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Paracetamol	mmol/l	0.348	0.280	0.420	Gravimetric	
	mg/l	52.7	42.4	63.5		
Phenobarbital	µmol/l	79.6	63.7	95.5	Abbott Architect (CMIA)	
	µg/ml	18.5	14.8	22.2		
	µmol/l	71.2	57.0	85.4	Roche Cobas e601/602/801	
	µg/ml	16.5	13.2	19.8		
	µmol/l	80.0	64.0	96.0	Siemens Immulite 2000/2500	
	µg/ml	18.6	14.8	22.4		
	µmol/l	72.4	57.9	86.9	Beckman AU400/600/640/2700/5400	
	µg/ml	16.8	13.4	20.2		
	µmol/l	108	86.4	130	Siemens Centaur XP/XPT/Classic	
	µg/ml	25.1	20.0	30.2		
	µmol/l	78.6	62.9	94.3	Roche Integra	
	µg/ml	18.2	14.6	21.8		
	µmol/l	73.6	58.9	88.3	Roche Cobas C303/501/502/503/701	
	µg/ml	17.1	13.7	20.5		
	µmol/l	74.1	59.3	88.9	Abbott Architect (PETINA)	
	µg/ml	17.2	13.8	20.6		
	µmol/l	81.9	65.5	98.3	Siemens Atellica CH	
	µg/ml	19.0	15.2	22.8		
Phenytoin	µmol/l	67.5	54.0	81.0	Abbott Alinity (PETINA)	
	µg/ml	15.7	12.5	18.9		
	µmol/l	77.6	62.1	93.1	Gravimetric	
	µg/ml	18.0	14.4	21.6		
	Phenytoin	µmol/l	67.3	53.8	80.8	Abbott Architect
		µg/ml	17.0	13.6	20.4	
	Phenytoin	µmol/l	77.7	62.2	93.2	Siemens Centaur XP/XPT/Classic
		µg/ml	19.6	15.7	23.5	
	Phenytoin	µmol/l	74.7	59.8	89.6	Siemens Dimension
		µg/ml	18.9	15.1	22.7	
	Phenytoin	µmol/l	65.7	52.6	78.8	Siemens Immulite 2000/2500
		µg/ml	16.6	13.3	19.9	
	Phenytoin	µmol/l	66.9	53.5	80.3	Roche Integra
		µg/ml	16.9	13.5	20.3	
	Phenytoin	µmol/l	66.6	53.3	79.9	Roche Cobas 6000/8000
		µg/ml	16.8	13.5	20.1	
	Phenytoin	µmol/l	66.6	53.3	79.9	Beckman DxC
		µg/ml	16.8	13.5	20.1	
Phenytoin	µmol/l	70.4	56.3	84.5	Beckman AU Instruments	
	µg/ml	17.8	14.2	21.4		
Phenytoin	µmol/l	63.0	50.4	75.6	EMIT	
	µg/ml	15.9	12.7	19.1		
Phenytoin	µmol/l	73.8	59.0	88.6	Siemens Atellica CH	
	µg/ml	18.6	14.9	22.3		
Phenytoin	µmol/l	69.4	55.5	83.3	Abbott Alinity	
	µg/ml	17.5	14.0	21.0		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

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	28.4	22.7	34.1	Abbott Architect
	ng/ml	8.89	7.11	10.7	
	nmol/l	40.8	32.6	49.0	BioMerieux Vidas
	ng/ml	12.8	10.2	15.4	
	nmol/l	24.3	19.4	29.2	Siemens Centaur XP/XPT/Classic
	ng/ml	7.61	6.07	9.15	
	nmol/l	25.9	20.7	31.1	Siemens Immulite 2000/2500
	ng/ml	8.11	6.48	9.74	
	nmol/l	30.0	24.0	36.0	Siemens Immulite 1000
	ng/ml	9.39	7.51	11.3	
	nmol/l	30.3	24.2	36.4	Beckman Dxl Prog Cal 33555
	ng/ml	9.48	7.57	11.4	
	nmol/l	31.6	25.3	37.9	Roche Elecsys (Prog. II)
	ng/ml	9.89	7.92	11.9	
	nmol/l	31.7	25.4	38.0	Beckman Access Prog Cal 33555
	ng/ml	9.92	7.95	11.9	
	nmol/l	36.8	29.4	44.2	Tosoh Series
	ng/ml	11.5	9.20	13.8	
	nmol/l	36.1	28.9	43.3	Vitros ECi
	ng/ml	11.3	9.05	13.6	
	nmol/l	32.1	25.7	38.5	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	10.0	8.04	12.0	
	nmol/l	33.1	26.5	39.7	Roche Cobas e601/602 (Prog. II)
	ng/ml	10.4	8.29	12.5	
	nmol/l	29.2	23.4	35.0	Diasorin Liaison
	ng/ml	9.14	7.32	11.0	
	nmol/l	25.9	20.7	31.1	Beckman Dxl Prog DE Cal A80773
	ng/ml	8.11	6.48	9.74	
	nmol/l	29.6	23.7	35.5	Beckman Access Prog DE Cal A80773
	ng/ml	9.26	7.42	11.1	
nmol/l	23.7	19.0	28.4	Siemens Centaur CP	
ng/ml	7.42	5.95	8.89		
nmol/l	33.0	26.4	39.6	Roche Cobas e601/602 (Prog. III)	
ng/ml	10.3	8.26	12.3		
nmol/l	32.2	25.8	38.6	Roche Elecsys (Prog. III)	
ng/ml	10.1	8.08	12.1		
nmol/l	32.6	26.1	39.1	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	10.2	8.17	12.2		
nmol/l	27.8	22.2	33.4	Diasorin Liaison XL	
ng/ml	8.70	6.95	10.5		
nmol/l	27.2	21.8	32.6	Abbott Alinity i	
ng/ml	8.51	6.82	10.2		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	33.0	26.4	39.6	Roche Cobas e801 (Prog. III)
	ng/ml	10.3	8.26	12.3	
	nmol/l	36.3	29.0	43.6	Tosoh AIA-CL Series
	ng/ml	11.4	9.08	13.7	
	nmol/l	24.9	19.9	29.9	Siemens Atellica IM
	ng/ml	7.79	6.23	9.36	
Prolactin	µU/ml	675	540	810	Abbott Architect
	µU/ml	784	627	941	BioMerieux Vidas
	µU/ml	550	440	660	Siemens Centaur XP/XPT/Classic
	µU/ml	591	473	709	Siemens Immulite 2000/2500
	µU/ml	674	539	809	Siemens Immulite 1000
	µU/ml	559	447	671	Beckman Dxl800
	µU/ml	635	508	762	Roche Elecsys
	µU/ml	635	508	762	Diasorin Liaison
	µU/ml	589	471	707	Beckman Access
	µU/ml	643	514	772	Tosoh Series
	µU/ml	582	466	698	Vitros ECi
	µU/ml	620	496	744	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	675	540	810	Immunotech IRMA
	µU/ml	646	517	775	Roche Cobas 4000/E411
	µU/ml	618	494	742	Roche Cobas e601/602
	µU/ml	745	596	894	Fujirebio Lumipulse G Series
	µU/ml	543	434	652	Siemens Centaur CP
	µU/ml	713	570	856	Diasorin Liaison XL
µU/ml	551	441	661	Siemens Atellica IM	
µU/ml	700	560	840	Abbott Alinity i	
µU/ml	614	491	737	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	11.8	8.85	14.8	Abbott Architect
	ng/ml = µg/l	12.1	9.08	15.1	BioMerieux Vidas
	ng/ml = µg/l	9.69	7.27	12.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	10.6	7.95	13.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	11.0	8.25	13.8	Siemens Immulite 1000
	ng/ml = µg/l	10.3	7.73	12.9	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	7.56	5.67	9.45	Roche Elecsys
	ng/ml = µg/l	9.23	6.92	11.5	Diasorin Liaison
	ng/ml = µg/l	10.3	7.73	12.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	7.58	5.69	9.48	Tosoh Series
	ng/ml = µg/l	7.56	5.67	9.45	Roche Cobas 4000/E411
	ng/ml = µg/l	7.46	5.60	9.33	Roche Cobas e601/602
	ng/ml = µg/l	9.37	7.03	11.7	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	10.2	7.65	12.8	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	6.78	5.09	8.48	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	8.61	6.46	10.8	Fujirebio Lumipulse G Series
	ng/ml = µg/l	8.46	6.35	10.6	Diasorin Liaison XL
ng/ml = µg/l	10.1	7.58	12.6	Siemens Atellica IM	

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	11.4	8.55	14.3	Abbott Alinity i
	ng/ml = µg/l	7.24	5.43	9.05	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	7.52	5.64	9.40	Abbott Architect
	ng/ml = µg/l	10.8	8.10	13.5	BioMerieux Vidas
	ng/ml = µg/l	10.7	8.03	13.4	bioMerieux VIDAS TPSA
	ng/ml = µg/l	9.46	7.10	11.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	10.9	8.18	13.6	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	10.9	8.18	13.6	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	11.7	8.78	14.6	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	9.48	7.11	11.9	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	7.93	5.95	9.91	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	9.71	7.28	12.1	Roche Elecsys
	ng/ml = µg/l	9.06	6.80	11.3	Diasorin Liaison
	ng/ml = µg/l	9.77	7.33	12.2	Beckman Access standardised to Hybritech
	ng/ml = µg/l	9.51	7.13	11.9	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	7.69	5.77	9.61	Tosoh Series
	ng/ml = µg/l	9.89	7.42	12.4	Vitros ECi
	ng/ml = µg/l	11.1	8.33	13.9	CIS RIA Coated tube
	ng/ml = µg/l	9.92	7.44	12.4	Roche Cobas 4000/E411
	ng/ml = µg/l	9.68	7.26	12.1	Roche Cobas e601/602
	ng/ml = µg/l	18.2	13.7	22.8	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	7.46	5.60	9.33	Fujirebio Lumipulse G Series
ng/ml = µg/l	9.82	7.37	12.3	Ortho Vitros 3600/5600/ECi PSA II	
ng/ml = µg/l	8.96	6.72	11.2	Siemens Centaur CP	
ng/ml = µg/l	9.59	7.19	12.0	Diasorin Liaison XL	
ng/ml = µg/l	10.1	7.58	12.6	Siemens Atellica IM	
ng/ml = µg/l	7.58	5.69	9.48	Abbott Alinity i	
ng/ml = µg/l	9.36	7.02	11.7	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	1.15	0.920	1.38	Abbott Architect
	mg/dl	15.9	12.7	19.1	
	mmol/l	1.16	0.928	1.39	Roche Cobas c501/502/503
	mg/dl	16.0	12.8	19.2	
	mmol/l	1.20	0.960	1.44	EMIT
	mg/dl	16.6	13.3	19.9	
SHBG	mmol/l	1.22	0.980	1.46	Gravimetric
	mg/dl	16.9	13.5	20.2	
	nmol/l	39.2	31.4	47.0	Siemens Immulite 1000
	nmol/l	39.4	31.5	47.3	Siemens Immulite 2000/2500
	nmol/l	41.8	33.4	50.2	Abbott Architect
	nmol/l	43.6	34.9	52.3	Beckman Access
	nmol/l	40.2	32.2	48.2	Beckman Dxl800
	nmol/l	38.5	30.8	46.2	Siemens Atellica IM
	nmol/l	39.0	31.2	46.8	Roche analysers - 413417/15
nmol/l	37.2	29.8	44.6	Roche Cobas e801 - 413429	
T Uptake	nmol/l	40.9	32.7	49.1	Abbott Alinity i
	%U	33.6	27.6	39.6	Siemens Immulite 2000

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	12.3	9.84	14.8	Abbott Architect
	ng/ml	3.54	2.83	4.25	
	ng/dl	354	283	425	
	nmol/l	11.0	8.80	13.2	BioMerieux Vidas
	ng/ml	3.17	2.53	3.81	
	ng/dl	317	253	381	
	nmol/l	12.8	10.2	15.4	Siemens Centaur XP/XPT/Classic
	ng/ml	3.69	2.94	4.44	
	ng/dl	369	294	444	
	nmol/l	11.7	9.36	14.0	CIS RIA Coated tube
	ng/ml	3.37	2.70	4.04	
	ng/dl	337	270	404	
	nmol/l	14.1	11.3	16.9	Siemens Immulite 2000/2500
	ng/ml	4.06	3.25	4.87	
	ng/dl	406	325	487	
	nmol/l	11.0	8.80	13.2	Beckman Dxl800
	ng/ml	3.17	2.53	3.81	
	ng/dl	317	253	381	
	nmol/l	12.0	9.60	14.4	Beckman Access
	ng/ml	3.46	2.76	4.16	
	ng/dl	346	276	416	
	nmol/l	14.6	11.7	17.5	Tosoh Series
	ng/ml	4.20	3.37	5.03	
	ng/dl	420	337	503	
	nmol/l	15.9	12.7	19.1	Vitros ECI
	ng/ml	4.58	3.66	5.50	
	ng/dl	458	366	550	
	nmol/l	12.9	10.3	15.5	Roche Cobas e601/602 Test II
	ng/ml	3.72	2.97	4.47	
	ng/dl	372	297	447	
nmol/l	12.6	10.1	15.1	Roche Elecsys Test II	
ng/ml	3.63	2.91	4.35		
ng/dl	363	291	435		
nmol/l	12.7	10.2	15.2	Roche Cobas 4000/e411 Test II	
ng/ml	3.66	2.94	4.38		
ng/dl	366	294	438		
nmol/l	12.3	9.84	14.8	Abbott Architect 2nd Generation	
ng/ml	3.54	2.83	4.25		
ng/dl	354	283	425		
nmol/l	11.2	8.96	13.4	Siemens Centaur CP	
ng/ml	3.23	2.58	3.88		
ng/dl	323	258	388		
nmol/l	11.3	9.04	13.6	BioMerieux Vidas Testosterone II	
ng/ml	3.25	2.60	3.90		
ng/dl	325	260	390		
nmol/l	12.5	10.0	15.0	Siemens Centaur TST II	
ng/ml	3.60	2.88	4.32		
ng/dl	360	288	432		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	7.11	5.69	8.53	Diasorin Liaison XL
	ng/ml	2.05	1.64	2.46	
	ng/dl	205	164	246	
	nmol/l	12.2	9.76	14.6	Siemens Atellica IM
	ng/ml	3.51	2.81	4.21	
	ng/dl	351	281	421	
	nmol/l	12.7	10.2	15.2	Roche Cobas e801 Test II
	ng/ml	3.66	2.94	4.38	
	ng/dl	366	294	438	
	nmol/l	17.2	13.8	20.6	Tosoh AIA-CL Series
	ng/ml	4.95	3.97	5.93	
	ng/dl	495	397	593	
	nmol/l	12.4	9.92	14.9	Abbott Alinity i
	ng/ml	3.57	2.86	4.28	
ng/dl	357	286	428		
Theophylline	µmol/l	82.9	66.3	99.0	Siemens Centaur XP/XPT/Classic
	µg/ml	14.9	11.9	17.9	
	µmol/l	83.8	67.0	101	Roche Integra
	µg/ml	15.1	12.1	18.1	
	µmol/l	70.7	56.6	84.8	Abbott Architect (CMIA)
	µg/ml	12.7	10.2	15.2	
	µmol/l	80.0	64.0	96.0	Roche Cobas 6000/8000
	µg/ml	14.4	11.5	17.3	
	µmol/l	83.5	66.8	100	Beckman DxC
	µg/ml	15.0	12.0	18.0	
	µmol/l	77.2	61.8	92.6	Beckman AU400/600/640/2700/5400
	µg/ml	13.9	11.1	16.7	
	µmol/l	77.3	61.8	92.8	Abbott Alinity Enzyme-Immu
	µg/ml	13.9	11.1	16.7	
µmol/l	83.8	67.0	101	Gravimetric	
µg/ml	15.1	12.1	18.2		
Thyroglobulin	ng/ml	14.7	11.0	18.4	Siemens Immulite 1000
	ng/ml	14.9	11.2	18.6	Siemens Immulite 2000
	ng/ml	36.7	27.5	45.9	Roche Elecsys
	ng/ml	30.8	23.1	38.5	Beckman Dxl800
	ng/ml	36.2	27.2	45.3	Roche Cobas 4000/E411
	ng/ml	35.8	26.9	44.8	Roche Cobas e601/602
	ng/ml	32.0	24.0	40.0	Beckman Access
	ng/ml	39.5	29.6	49.4	Abbott Architect 2000i
	ng/ml	35.2	26.4	44.0	Tosoh Series
	ng/ml	35.6	26.7	44.5	Roche Cobas e601/602 Tg II
	ng/ml	36.3	27.2	45.4	Roche Elecsys TGII
	ng/ml	36.4	27.3	45.5	Roche Cobas 4000/E411 TGII
	ng/ml	37.2	27.9	46.5	Diasorin Liaison XL

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroglobulin	ng/ml	34.8	26.1	43.5	Roche Cobas e801 Tg II
	ng/ml	37.7	28.3	47.1	DiaSorin Liaison TG II Gen
	ng/ml	39.4	29.6	49.3	DiaSorin Liaison XL TG II Gen
	ng/ml	38.0	28.5	47.5	Abbott Alinity i
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.74	1.39	2.09	Abbott Architect
	µU/ml = mIU/l	2.02	1.62	2.42	bioMerieux VIDAS TSH
	µU/ml = mIU/l	1.85	1.48	2.22	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.13	1.70	2.56	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	2.67	2.14	3.20	CIS IRMA
	µU/ml = mIU/l	2.18	1.74	2.62	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.09	1.67	2.51	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.01	1.61	2.41	Siemens Immulite 1000
	µU/ml = mIU/l	1.92	1.54	2.30	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	1.98	1.58	2.38	Beckman Dxl800
	µU/ml = mIU/l	2.33	1.86	2.80	Roche Elecsys
	µU/ml = mIU/l	2.71	2.17	3.25	Diasorin Liaison
	µU/ml = mIU/l	1.98	1.58	2.38	Beckman Access Fast TSH
	µU/ml = mIU/l	2.00	1.60	2.40	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.18	1.74	2.62	Tosoh Series
	µU/ml = mIU/l	2.15	1.72	2.58	Vitros ECi
	µU/ml = mIU/l	2.34	1.87	2.81	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.34	1.87	2.81	Roche Cobas e601/602
	µU/ml = mIU/l	2.25	1.80	2.70	ELISA
	µU/ml = mIU/l	1.92	1.54	2.30	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.07	1.66	2.48	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	1.97	1.58	2.36	Siemens Centaur CP
	µU/ml = mIU/l	1.96	1.57	2.35	Siemens Centaur CP TSH3-Ultra
µU/ml = mIU/l	1.97	1.58	2.36	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	2.95	2.36	3.54	Diasorin Liaison XL	
µU/ml = mIU/l	2.09	1.67	2.51	Siemens Atellica IM	
µU/ml = mIU/l	1.76	1.41	2.11	Abbott Alinity i	
µU/ml = mIU/l	2.20	1.76	2.64	Roche Cobas e402/e801	
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	22.5	18.0	27.0	BioMerieux Vidas
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	15.6	12.5	18.7	Siemens Centaur XP/XPT/Classic
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	25.1	20.1	30.1	Siemens Dimension
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	30.6	24.5	36.7	Siemens Immulite 2000
	IU/ml	0.031	0.025	0.037	
	mU/ml=IU/l	31.7	25.4	38.0	Siemens Immulite 1000
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	16.4	13.1	19.7	Beckman Dxl800
	IU/ml	0.016	0.013	0.019	

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	13.0	10.4	15.6	Diasorin Liaison
	IU/ml	0.013	0.010	0.016	
	mU/ml=IU/l	15.5	12.4	18.6	Roche Cobas Core EIA
	IU/ml	0.016	0.012	0.020	
	mU/ml=IU/l	16.0	12.8	19.2	Beckman Access
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	23.5	18.8	28.2	Tosoh Series
	IU/ml	0.024	0.019	0.029	
	mU/ml=IU/l	25.4	20.3	30.5	Vitros ECI
	IU/ml	0.025	0.020	0.030	
	mU/ml=IU/l	13.1	10.5	15.7	Roche hCG STAT (Intact)
	IU/ml	0.013	0.011	0.015	
	mU/ml=IU/l	15.9	12.7	19.1	Roche hCG+Beta
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	12.8	10.2	15.4	Fujirebio Lumipulse G Series
	IU/ml	0.013	0.010	0.016	
	mU/ml=IU/l	15.8	12.6	19.0	Beckman Access Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	16.2	13.0	19.4	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
mU/ml=IU/l	16.1	12.9	19.3	Siemens Centaur CP	
IU/ml	0.016	0.013	0.019		
mU/ml=IU/l	14.0	11.2	16.8	Diasorin Liaison XL	
IU/ml	0.014	0.011	0.017		
mU/ml=IU/l	16.6	13.3	19.9	Siemens Atellica IM	
IU/ml	0.017	0.013	0.021		
mU/ml=IU/l	14.6	11.7	17.5	Abbott Alinity i	
IU/ml	0.015	0.012	0.018		
mU/ml=IU/l	15.7	12.6	18.8	Roche hCG+Beta e801	
IU/ml	0.016	0.013	0.019		
mU/ml=IU/l	28.9	23.1	34.7	Tosoh AIA-CL Series	
IU/ml	0.029	0.023	0.035		
Total T3	nmol/l	3.01	2.26	3.76	Abbott Architect
	ng/ml	1.96	1.47	2.45	
	ng/dl	196	147	245	
	nmol/l	3.49	2.62	4.36	BioMerieux Vidas
	ng/ml	2.27	1.71	2.83	
	ng/dl	227	171	283	
	nmol/l	3.70	2.78	4.63	Siemens Centaur XP/XPT/Classic
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	3.15	2.36	3.94	Siemens Immulite 2000/2500
	ng/ml	2.05	1.54	2.56	
	ng/dl	205	154	256	
	nmol/l	2.84	2.13	3.55	Siemens Immulite 1000
	ng/ml	1.85	1.39	2.31	
ng/dl	185	139	231		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.23	2.42	4.04	Beckman DxI800
	ng/ml	2.10	1.58	2.62	
	ng/dl	210	158	262	
	nmol/l	3.70	2.78	4.63	Roche Elecsys
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	3.39	2.54	4.24	Beckman Access
	ng/ml	2.21	1.65	2.77	
	ng/dl	221	165	277	
	nmol/l	3.34	2.51	4.18	Tosoh Series
	ng/ml	2.17	1.63	2.71	
	ng/dl	217	163	271	
	nmol/l	3.93	2.95	4.91	Vitros ECI
	ng/ml	2.56	1.92	3.20	
	ng/dl	256	192	320	
	nmol/l	2.41	1.81	3.01	CIS RIA Coated tube
	ng/ml	1.57	1.18	1.96	
	ng/dl	157	118	196	
	nmol/l	3.57	2.68	4.46	Roche Cobas 4000/E411
	ng/ml	2.32	1.74	2.90	
	ng/dl	232	174	290	
	nmol/l	2.73	2.05	3.41	Immunotech RIA
	ng/ml	1.78	1.33	2.23	
	ng/dl	178	133	223	
	nmol/l	3.57	2.68	4.46	Roche Cobas e601/602
	ng/ml	2.32	1.74	2.90	
	ng/dl	232	174	290	
	nmol/l	3.94	2.96	4.93	Siemens Centaur CP
	ng/ml	2.56	1.93	3.19	
	ng/dl	256	193	319	
nmol/l	2.38	1.79	2.98	Diasorin Liaison XL	
ng/ml	1.55	1.17	1.93		
ng/dl	155	117	193		
nmol/l	3.08	2.31	3.85	Abbott Alinity i	
ng/ml	2.01	1.50	2.52		
ng/dl	201	150	252		
nmol/l	3.72	2.79	4.65	Siemens Atellica IM	
ng/ml	2.42	1.82	3.02		
ng/dl	242	182	302		
nmol/l	3.88	2.91	4.85	Roche Cobas e402/e801	
ng/ml	2.53	1.89	3.17		
ng/dl	253	189	317		
nmol/l	3.31	2.48	4.14	Tosoh AIA-CL Series	
ng/ml	2.15	1.61	2.69		
ng/dl	215	161	269		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	109	81.8	136	Abbott Architect
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	119	89.3	149	BioMerieux Vidas
	µg/dl	9.28	6.97	11.6	
	ng/ml	92.8	69.7	116	
	nmol/l	114	85.5	143	Siemens Centaur XP/XPT/Classic
	µg/dl	8.89	6.67	11.1	
	ng/ml	88.9	66.7	111	
	nmol/l	111	83.3	139	Siemens Immulite 2000/2500
	µg/dl	8.66	6.50	10.8	
	ng/ml	86.6	65.0	108	
	nmol/l	108	81.0	135	Siemens Immulite 1000
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	114	85.5	143	Beckman Dxl800
	µg/dl	8.89	6.67	11.1	
	ng/ml	88.9	66.7	111	
	nmol/l	108	81.0	135	Roche Elecsys
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	116	87.0	145	Beckman Access
	µg/dl	9.05	6.79	11.3	
	ng/ml	90.5	67.9	113	
	nmol/l	109	81.8	136	Tosoh Series
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	112	84.0	140	Vitros ECI
	µg/dl	8.74	6.55	10.9	
	ng/ml	87.4	65.5	109	
nmol/l	108	81.0	135	CIS RIA Coated tube	
µg/dl	8.42	6.32	10.5		
ng/ml	84.2	63.2	105		
nmol/l	106	79.5	133	Roche Cobas 4000/E411	
µg/dl	8.27	6.20	10.3		
ng/ml	82.7	62.0	103		
nmol/l	104	78.0	130	Roche Cobas e601/602	
µg/dl	8.11	6.08	10.1		
ng/ml	81.1	60.8	101		
nmol/l	84.5	63.4	106	Immunotech IRMA	
µg/dl	6.59	4.95	8.23		
ng/ml	65.9	49.5	82.3		
nmol/l	123	92.3	154	Siemens Centaur CP	
µg/dl	9.59	7.20	12.0		
ng/ml	95.9	72.0	120		
nmol/l	92.5	69.4	116	Diasorin Liaison XL	
µg/dl	7.22	5.41	9.03		
ng/ml	72.2	54.1	90.3		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	108	81.0	135	Abbott Alinity i
	µg/dl	8.42	6.32	10.5	
	ng/ml	84.2	63.2	105	
	nmol/l	123	92.3	154	Siemens Atellica IM
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	104	78.0	130	Roche Cobas e402/e801
	µg/dl	8.11	6.08	10.1	
	ng/ml	81.1	60.8	101	
	nmol/l	125	93.8	156	Tosoh AIA-CL Series
	µg/dl	9.75	7.32	12.2	
	ng/ml	97.5	73.2	122	
Valproic Acid	µmol/l	529	423	635	Abbott Architect (CMIA)
	µg/ml	76.3	61.0	91.6	
	µmol/l	568	454	682	Siemens Centaur XP/XPT/Classic
	µg/ml	82.0	65.5	98.5	
	µmol/l	533	426	640	Siemens Dimension
	µg/ml	76.9	61.5	92.3	
	µmol/l	548	438	658	Siemens Immulite 2000/2500
	µg/ml	79.1	63.2	95.0	
	µmol/l	525	420	630	Roche Integra
	µg/ml	75.8	60.6	91.0	
	µmol/l	547	438	656	Vitros
	µg/ml	78.9	63.2	94.6	
	µmol/l	540	432	648	Roche Cobas 6000/8000
	µg/ml	77.9	62.3	93.5	
	µmol/l	570	456	684	Beckman AU400/600/640/2700/5400
	µg/ml	82.3	65.8	98.8	
	µmol/l	543	434	652	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	78.4	62.6	94.2	
	µmol/l	512	410	614	Abbott Architect (PETINA)
	µg/ml	73.9	59.2	88.6	
	µmol/l	570	456	684	EMIT
	µg/ml	82.3	65.8	98.8	
	µmol/l	541	433	649	Siemens Atellica CH
	µg/ml	78.1	62.5	93.7	
µmol/l	514	411	617	Abbott Alinity (CMIA)	
µg/ml	74.2	59.3	89.1		
µmol/l	528	422	634	Abbott Alinity (PETINA)	
µg/ml	76.2	60.9	91.5		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	6.73	5.38	8.08	Roche Integra
	µg/ml	10.0	7.99	12.0	

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	6.22	4.98	7.46	Ortho Vitros Microslide Systems
	µg/ml	9.24	7.40	11.1	
	µmol/l	8.14	6.51	9.77	Abbott Architect (CMIA)
	µg/ml	12.1	9.67	14.5	
	µmol/l	6.54	5.23	7.85	Siemens Centaur XP/XPT/Classic
	µg/ml	9.72	7.77	11.7	
	µmol/l	7.49	5.99	8.99	Siemens Dimension
	µg/ml	11.1	8.90	13.3	
	µmol/l	7.36	5.89	8.83	Roche Cobas 6000/8000
	µg/ml	10.9	8.75	13.1	
	µmol/l	7.13	5.70	8.56	Thermo Scientific QMS Vancomycin
	µg/ml	10.6	8.47	12.7	
	µmol/l	7.58	6.06	9.10	Abbott Architect (PETINA)
	µg/ml	11.3	9.00	13.6	
	µmol/l	7.39	5.91	8.87	Siemens Atellica CH
	µg/ml	11.0	8.78	13.2	
	µmol/l	7.69	6.15	9.23	Abbott Alinity (CMIA)
	µg/ml	11.4	9.14	13.7	
µmol/l	7.34	5.87	8.81	Abbott Alinity (PETINA)	
µg/ml	10.9	8.72	13.1		
µmol/l	7.10	5.68	8.52	Gravimetric	
µg/ml	10.5	8.44	12.7		
Vitamin B12	pmol/l	363	290	436	Abbott Architect
	pg/ml	492	393	591	
	pmol/l	401	321	481	Siemens Centaur XP/XPT/Classic
	pg/ml	543	435	651	
	pmol/l	376	301	451	Siemens Immulite 2000
	pg/ml	509	408	610	
	pmol/l	300	240	360	Beckman Dxl800
	pg/ml	407	325	489	
	pmol/l	416	333	499	Roche Elecsys
	pg/ml	564	451	677	
	pmol/l	314	251	377	Beckman Access
	pg/ml	425	340	510	
	pmol/l	508	406	610	Tosoh Series
	pg/ml	688	550	826	
	pmol/l	423	338	508	Vitros ECi
	pg/ml	573	458	688	
	pmol/l	366	293	439	Siemens Dimension
	pg/ml	496	397	595	
pmol/l	413	330	496	Siemens Centaur CP	
pg/ml	560	447	673		
pmol/l	406	325	487	Roche Cobas 4000/e411 Gen II	
pg/ml	550	440	660		
pmol/l	430	344	516	Roche Cobas e601/602 Gen II	
pg/ml	583	466	700		

IMMUNOASSAY PREMIUM LEVEL 2 (IA PREMIUM 2)

Cat. No. IA2639 / IA2633 Lot. No. 2112EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	328	262	394	Diasorin Liaison XL
	pg/ml	444	355	533	
	pmol/l	413	330	496	Siemens Atellica IM
	pg/ml	560	447	673	
	pmol/l	360	288	432	Abbott Alinity i
	pg/ml	488	390	586	
Vitamin B12	pmol/l	422	338	506	Roche Cobas e801 Gen II
	pg/ml	572	458	686	