

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

CAT. NO. IA3110	GTIN: 05055273207262	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. 2124EC	EXPIRY: 2024-10-28	

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

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

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

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

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

MATERIALS PROVIDED

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

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

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

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

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

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	9.60	7.20	12.0	DRG ELISA
	ng/ml	3.18	2.38	3.98	
	nmol/l	9.01	6.76	11.3	DBC ELISA
	ng/ml	2.98	2.24	3.72	
25-OH Vitamin D	nmol/l	55.9	41.9	69.9	Diasorin Liaison
	nmol/l	68.3	51.2	85.4	Siemens Centaur XP/XPT/Classic
	nmol/l	47.2	35.4	59.0	Roche Vitamin D Total
	nmol/l	47.9	35.9	59.9	Abbott Architect (3L52)
	nmol/l	68.5	51.4	85.6	Vitros ECi
	nmol/l	51.9	38.9	64.9	Tosoh Series
	nmol/l	62.6	47.0	78.3	BioMerieux Vidas
	nmol/l	38.8	29.1	48.5	Beckman Dxl 600/800
	nmol/l	48.6	36.5	60.8	Fujirebio Lumipulse G Series
	nmol/l	41.8	31.4	52.3	Beckman Access 25 OH Vitamin D Total
	nmol/l	51.3	38.5	64.1	LC/MS
	nmol/l	46.9	35.2	58.6	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	54.4	40.8	68.0	Diasorin Liaison XL
	nmol/l	48.6	36.5	60.8	Roche Vitamin D Total II
	nmol/l	49.1	36.8	61.4	Abbott Alinity i
	nmol/l	66.6	50.0	83.3	Siemens Atellica IM
nmol/l	48.5	36.4	60.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	12.0	9.00	15.0	Siemens Immulite 2000/2500
	pg/ml	54.5	40.9	68.1	
	pmol/l	12.2	9.15	15.3	Roche Cobas 4000/E411
	pg/ml	55.4	41.6	69.2	
	pmol/l	12.2	9.15	15.3	Roche Cobas e601/602
	pg/ml	55.4	41.6	69.2	
	pmol/l	20.8	15.6	26.0	CIS IRMA
	pg/ml	94.5	70.9	118	
	pmol/l	18.1	13.6	22.6	Diasorin Liaison
	pg/ml	82.3	61.8	103	
pmol/l	18.6	14.0	23.3	Diasorin Liaison XL	
pg/ml	84.5	63.6	105		
pmol/l	12.4	9.30	15.5	Roche Cobas e801	
pg/ml	56.4	42.3	70.5		
Aldosterone	pmol/l	685	514	856	DRG ELISA
	pg/ml	247	185	309	
	pmol/l	145	109	181	CIS RIA
	pg/ml	52.3	39.3	65.3	
	pmol/l	412	309	515	Diasorin Liaison
	pg/ml	149	111	187	
pmol/l	399	299	499	Diasorin Liaison XL	
pg/ml	144	108	180		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	43.1	34.5	51.7	Abbott Architect
	ng/ml	52.2	41.7	62.7	
	KIU/l = IU/ml	42.4	33.9	50.9	BioMerieux Vidas
	ng/ml	51.3	41.0	61.6	
	KIU/l = IU/ml	48.1	38.5	57.7	Siemens Centaur XP/XPT/Classic
	ng/ml	58.2	46.6	69.8	
	KIU/l = IU/ml	43.6	34.9	52.3	Siemens Immulite 2000/2500
	ng/ml	52.8	42.2	63.4	
	KIU/l = IU/ml	44.8	35.8	53.8	Siemens Immulite 1000
	ng/ml	54.2	43.3	65.1	
	KIU/l = IU/ml	41.1	32.9	49.3	Beckman Dxl800
	ng/ml	49.7	39.8	59.6	
	KIU/l = IU/ml	48.2	38.6	57.8	Roche Elecsys
	ng/ml	58.3	46.7	69.9	
	KIU/l = IU/ml	43.5	34.8	52.2	Beckman Access
	ng/ml	52.6	42.1	63.1	
	KIU/l = IU/ml	42.9	34.3	51.5	Tosoh Series
	ng/ml	51.9	41.5	62.3	
	KIU/l = IU/ml	45.7	36.6	54.8	Vitros Eci
	ng/ml	47.5	38.0	57.0	
KIU/l = IU/ml	48.1	38.5	57.7	Roche Cobas e601/602	
ng/ml	58.2	46.6	69.8		
KIU/l = IU/ml	72.2	57.8	86.6	CIS IRMA	
ng/ml	87.4	69.9	105		
KIU/l = IU/ml	47.6	38.1	57.1	Roche Cobas 4000/E411	
ng/ml	57.6	46.1	69.1		
KIU/l = IU/ml	46.9	37.5	56.3	Fujirebio Lumipulse G Series	
ng/ml	56.7	45.4	68.0		
KIU/l = IU/ml	46.5	37.2	55.8	Siemens Dimension	
ng/ml	56.3	45.0	67.6		
KIU/l = IU/ml	48.2	38.6	57.8	Siemens Centaur CP	
ng/ml	58.3	46.7	69.9		
KIU/l = IU/ml	47.1	37.7	56.5	Diasorin Liaison XL	
ng/ml	57.0	45.6	68.4		
KIU/l = IU/ml	48.2	38.6	57.8	Siemens Atellica IM	
ng/ml	58.3	46.7	69.9		
KIU/l = IU/ml	43.3	34.6	52.0	Abbott Alinity i	
ng/ml	52.4	41.9	62.9		
KIU/l = IU/ml	46.3	37.0	55.6	Roche Cobas e801	
ng/ml	56.0	44.8	67.2		
Amikacin	µmol/l	14.6	11.7	17.5	Roche Cobas 6000/8000
	µg/ml	8.55	6.85	10.3	
	µmol/l	15.7	12.6	18.8	Abbott Architect
	µg/ml	9.19	7.38	11.0	
	µmol/l	15.6	12.5	18.7	Thermo Scientific QMS Amikacin
	µg/ml	9.14	7.32	11.0	

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Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Amikacin	µmol/l	15.5	12.4	18.6	Abbott Alinity
	µg/ml	9.08	7.26	10.9	
	µmol/l	15.2	12.2	18.2	Gravimetric
	µg/ml	8.90	7.14	10.7	
Androstenedione	nmol/l	16.6	12.5	20.8	Siemens Immulite 2000
	ng/ml	4.76	3.59	5.93	
	nmol/l	14.7	11.0	18.4	Siemens Immulite 1000
	ng/ml	4.22	3.16	5.28	
	nmol/l	8.71	6.53	10.9	DRG ELISA
	ng/ml	2.50	1.87	3.13	
	nmol/l	9.14	6.86	11.4	Diasorin Liaison XL
	ng/ml	2.62	1.97	3.27	
Beta-2-microglobulin	µg/ml = mg/l	3.05	2.44	3.66	Abbott Architect
	µg/ml = mg/l	3.38	2.70	4.06	BioMerieux Vidas
	µg/ml = mg/l	3.03	2.42	3.64	Behring Nephelometer
	µg/ml = mg/l	2.83	2.26	3.40	Siemens Immulite 2000/2500
	µg/ml = mg/l	3.43	2.74	4.12	Tosoh Series
	µg/ml = mg/l	3.08	2.46	3.70	Roche Cobas 6000/8000
	µg/ml = mg/l	2.82	2.26	3.38	Diasorin Liaison XL
	µg/ml = mg/l	3.04	2.43	3.65	Siemens Atellica CH
C-Peptide	µg/ml = mg/l	3.09	2.47	3.71	Abbott Alinity
	nmol/l	2.270	1.700	2.840	Siemens Immulite 2000/2500
	ng/ml	6.85	5.13	8.57	
	nmol/l	2.400	1.800	3.000	Roche Elecsys
	ng/ml	7.25	5.43	9.07	
	nmol/l	2.360	1.770	2.950	Roche Cobas e601/602
	ng/ml	7.12	5.34	8.90	
	nmol/l	2.410	1.810	3.010	Diasorin Liaison
	ng/ml	7.28	5.46	9.10	
	nmol/l	2.370	1.780	2.960	Roche Cobas 4000/E411
	ng/ml	7.16	5.37	8.95	
	nmol/l	2.100	1.580	2.630	Abbott Architect
	ng/ml	6.34	4.77	7.91	
	nmol/l	1.510	1.130	1.890	Siemens Centaur XP/XPT/Classic
	ng/ml	4.56	3.41	5.71	
	nmol/l	2.070	1.550	2.590	Tosoh Series
	ng/ml	6.25	4.68	7.82	
	nmol/l	2.460	1.850	3.080	Diasorin Liaison XL
	ng/ml	7.43	5.59	9.27	
	nmol/l	2.250	1.690	2.810	Roche Cobas e801
ng/ml	6.79	5.10	8.48		
nmol/l	1.520	1.140	1.900	Siemens Atellica IM	
ng/ml	4.59	3.44	5.74		
nmol/l	2.080	1.560	2.600	Abbott Alinity i	
ng/ml	6.28	4.71	7.85		

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Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
CA 15-3	U/ml	50.6	40.5	60.7	Abbott Architect
	U/ml	38.9	31.1	46.7	BioMerieux Vidas
	U/ml	40.1	32.1	48.1	Siemens Centaur XP/XPT/Classic
	U/ml	45.1	36.1	54.1	Siemens Immulite 2000/2500
	U/ml	48.3	38.6	58.0	Siemens Immulite 1000
	U/ml	19.9	15.9	23.9	Beckman Dxl800
	U/ml	45.1	36.1	54.1	Roche Elecsys
	U/ml	40.9	32.7	49.1	Diasorin Liaison
	U/ml	19.8	15.8	23.8	Beckman Access
	U/ml	43.3	34.6	52.0	Tosoh Series
	U/ml	37.3	29.8	44.8	Vitros ECi
	U/ml	46.1	36.9	55.3	Roche Cobas e601/602
	U/ml	45.4	36.3	54.5	Roche Cobas 4000/E411
	U/ml	41.6	33.3	49.9	Siemens Centaur CP
	U/ml	23.1	18.5	27.7	Mindray CL-2000i
	U/ml	41.8	33.4	50.2	Diasorin Liaison XL
	U/ml	43.8	35.0	52.6	Siemens Atellica IM
	U/ml	41.7	33.4	50.0	Roche Cobas e801
U/ml	48.3	38.6	58.0	Abbott Alinity i	
CA 19-9	U/ml	76.5	61.2	91.8	BioMerieux Vidas
	U/ml	109	87.2	131	Siemens Centaur XP/XPT/Classic
	U/ml	236	189	283	Siemens Immulite 2000/2500
	U/ml	302	242	362	Siemens Immulite 1000
	U/ml	239	191	287	Beckman Dxl800
	U/ml	76.6	61.3	91.9	Roche Elecsys
	U/ml	104	83.2	125	Diasorin Liaison
	U/ml	269	215	323	Beckman Access
	U/ml	65.7	52.6	78.8	Tosoh Series
	U/ml	135	108	162	Vitros ECi
	U/ml	147	118	176	Abbott Architect XR/XR2/XRL
	U/ml	77.4	61.9	92.9	Roche Cobas e601/602
	U/ml	78.3	62.6	94.0	Roche Cobas 4000/E411
	U/ml	142	114	170	Fujirebio Lumipulse G Series
	U/ml	90.6	72.5	109	Siemens Centaur CP
	U/ml	54.0	43.2	64.8	Mindray CL-2000i
	U/ml	125	100	150	Diasorin Liaison XL
	U/ml	108	86.4	130	Siemens Atellica IM
U/ml	75.9	60.7	91.1	Roche Cobas e801	
U/ml	148	118	178	Abbott Alinity XR/XR2/XRL	
CA125	U/ml	121	96.8	145	Abbott Architect
	U/ml	88.1	70.5	106	BioMerieux Vidas
	U/ml	96.3	77.0	116	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	100	80.0	120	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	84.0	67.2	101	Siemens Immulite 2000/2500
	U/ml	95.3	76.2	114	Siemens Immulite 1000
U/ml	77.3	61.8	92.8	Beckman Dxl800	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Range					
Analyte	unit	Target	low	high	methods
CA125	U/ml	83.4	66.7	100	Roche Elecsys
	U/ml	78.9	63.1	94.7	Beckman Access
	U/ml	140	112	168	Tosoh Series
	U/ml	86.0	68.8	103	Vitros ECi
	U/ml	85.2	68.2	102	Roche Cobas 4000/E411
	U/ml	86.8	69.4	104	Roche Cobas e601/602
	U/ml	78.8	63.0	94.6	Fujirebio Lumipulse G Series
	U/ml	102	81.6	122	Siemens Centaur CP CA125 II kit
	U/ml	128	102	154	Mindray CL-2000i
	U/ml	115	92.0	138	Diasorin Liaison XL
	U/ml	114	91.2	137	Siemens Atellica IM
	U/ml	82.8	66.2	99.0	Roche Cobas e801
	U/ml	126	101	151	Abbott Alinity i
Carbamazepine	µmol/l	39.8	31.8	47.8	Abbott Architect (CMIA)
	µg/ml	9.41	7.52	11.3	
	µmol/l	42.8	34.2	51.4	Siemens Centaur XP/XPT/Classic
	µg/ml	10.1	8.08	12.1	
	µmol/l	37.0	29.6	44.4	Siemens Dimension
	µg/ml	8.75	7.00	10.5	
	µmol/l	34.9	27.9	41.9	Siemens Immulite 2000/2500
	µg/ml	8.25	6.60	9.90	
	µmol/l	36.2	29.0	43.4	Siemens Immulite 1000
	µg/ml	8.56	6.86	10.3	
	µmol/l	40.0	32.0	48.0	Roche Integra
	µg/ml	9.46	7.56	11.4	
	µmol/l	39.6	31.7	47.5	Roche Cobas 6000/8000
	µg/ml	9.36	7.49	11.2	
	µmol/l	41.5	33.2	49.8	Beckman AU400/600/640/2700/5400
	µg/ml	9.81	7.85	11.8	
	µmol/l	33.7	27.0	40.4	Abbott Architect (PETINA)
	µg/ml	7.97	6.38	9.56	
	µmol/l	40.3	32.2	48.4	EMIT
	µg/ml	9.53	7.61	11.5	
µmol/l	35.9	28.7	43.1	Siemens Atellica CH	
µg/ml	8.49	6.78	10.2		
µmol/l	31.7	25.4	38.0	Abbott Alinity (PETINA)	
µg/ml	7.49	6.00	8.98		
µmol/l	38.5	30.8	46.2	Gravimetric	
µg/ml	9.10	7.28	10.9		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	33.8	27.0	40.6	Abbott Architect
	ng/ml = µg/l	28.7	23.0	34.4	BioMerieux Vidas
	ng/ml = µg/l	31.5	25.2	37.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	23.2	18.6	27.8	CIS RIA Coated tube
	ng/ml = µg/l	39.2	31.4	47.0	Siemens Immulite 2000/2500
	ng/ml = µg/l	40.5	32.4	48.6	Siemens Immulite 1000
ng/ml = µg/l	27.2	21.8	32.6	Beckman Dxl800	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	26.1	20.9	31.3	Roche Elecsys
	ng/ml = µg/l	27.0	21.6	32.4	Diasorin Liaison
	ng/ml = µg/l	28.5	22.8	34.2	Beckman Access
	ng/ml = µg/l	37.6	30.1	45.1	Tosoh Series
	ng/ml = µg/l	31.3	25.0	37.6	Vitros ECi
	ng/ml = µg/l	25.8	20.6	31.0	Roche Cobas e601/602
	ng/ml = µg/l	26.6	21.3	31.9	Roche Cobas 4000/E411
	ng/ml = µg/l	37.1	29.7	44.5	Fujirebio Lumipulse G Series
	ng/ml = µg/l	39.0	31.2	46.8	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	32.4	25.9	38.9	Siemens Centaur CP
	ng/ml = µg/l	19.3	15.4	23.2	Mindray CL-2000i
	ng/ml = µg/l	27.9	22.3	33.5	Diasorin Liaison XL
	ng/ml = µg/l	31.1	24.9	37.3	Siemens Atellica IM
	ng/ml = µg/l	25.7	20.6	30.8	Roche Cobas e801
ng/ml = µg/l	33.5	26.8	40.2	Abbott Alinity i	
Cortisol	nmol/l	586	440	733	Abbott Architect
	µg/dl	21.1	15.8	26.4	
	nmol/l	615	461	769	BioMerieux Vidas
	µg/dl	22.1	16.6	27.6	
	nmol/l	742	557	928	Siemens Centaur XP/XPT/Classic
	µg/dl	26.7	20.1	33.3	
	nmol/l	485	364	606	CIS RIA
	µg/dl	17.5	13.1	21.9	
	nmol/l	627	470	784	Siemens Immulite 2000/2500
	µg/dl	22.6	16.9	28.3	
	nmol/l	663	497	829	Siemens Immulite 1000
	µg/dl	23.9	17.9	29.9	
	nmol/l	649	487	811	Beckman Dxl800
	µg/dl	23.4	17.5	29.3	
	nmol/l	645	484	806	Roche Elecsys
	µg/dl	23.2	17.4	29.0	
	nmol/l	709	532	886	Beckman Access
	µg/dl	25.5	19.2	31.8	
	nmol/l	718	539	898	Tosoh Series
	µg/dl	25.8	19.4	32.2	
nmol/l	595	446	744	Vitros ECi	
µg/dl	21.4	16.1	26.7		
nmol/l	638	479	798	Roche Cobas e601/602	
µg/dl	23.0	17.2	28.8		
nmol/l	673	505	841	Roche Cobas 4000/E411	
µg/dl	24.2	18.2	30.2		
nmol/l	730	548	913	Siemens Centaur CP	
µg/dl	26.3	19.7	32.9		
nmol/l	666	500	833	Roche Cobas 4000/e411 Gen II	
µg/dl	24.0	18.0	30.0		
nmol/l	636	477	795	Roche Cobas e601/602 Gen II	
µg/dl	22.9	17.2	28.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	642	482	803	Roche Elecsys Gen II
	µg/dl	23.1	17.4	28.8	
	nmol/l	649	487	811	Diasorin Liaison XL
	µg/dl	23.4	17.5	29.3	
	nmol/l	830	623	1038	Siemens Atellica IM
	µg/dl	29.9	22.4	37.4	
DHEA-S	nmol/l	636	477	795	Roche Cobas e801
	µg/dl	22.9	17.2	28.6	
	nmol/l	581	436	726	Abbott Alinity i
	µg/dl	20.9	15.7	26.1	
	µmol/l	14.3	11.4	17.2	Abbott Architect
	µmol/l	12.0	9.60	14.4	Siemens Immulite 2000/2500
	µmol/l	11.9	9.52	14.3	Siemens Immulite 1000
	µmol/l	11.9	9.52	14.3	Beckman DxI800
	µmol/l	18.0	14.4	21.6	Roche Elecsys
	µmol/l	12.0	9.60	14.4	Beckman Access
	µmol/l	10.2	8.16	12.2	Diasorin Liaison
	µmol/l	12.4	9.92	14.9	Siemens Centaur XP/XPT/Classic
µmol/l	17.6	14.1	21.1	Roche Cobas 4000/E411	
µmol/l	17.2	13.8	20.6	Roche Cobas e601/602	
µmol/l	10.7	8.56	12.8	Diasorin Liaison XL	
µmol/l	11.7	9.36	14.0	Siemens Atellica IM	
µmol/l	16.7	13.4	20.0	Roche Cobas e801	
µmol/l	14.6	11.7	17.5	Abbott Alinity i	
Digoxin	nmol/l	2.41	1.93	2.89	Abbott Architect (CMIA)
	ng/ml	1.88	1.51	2.25	
	nmol/l	2.67	2.14	3.20	BioMerieux Vidas
	ng/ml	2.09	1.67	2.51	
	nmol/l	3.25	2.60	3.90	Siemens Centaur XP/XPT/Classic
	ng/ml	2.54	2.03	3.05	
	nmol/l	2.79	2.23	3.35	Siemens Dimension
	ng/ml	2.18	1.74	2.62	
	nmol/l	2.85	2.28	3.42	Beckman DxI800
	ng/ml	2.23	1.78	2.68	
	nmol/l	2.83	2.26	3.40	Roche Integra
	ng/ml	2.21	1.77	2.65	
	nmol/l	2.83	2.26	3.40	Roche Cobas e601/602
	ng/ml	2.21	1.77	2.65	
	nmol/l	3.02	2.42	3.62	Beckman AU400/600/640/2700/5400
	ng/ml	2.36	1.89	2.83	
	nmol/l	2.98	2.38	3.58	Roche Cobas 4000/E411
	ng/ml	2.33	1.86	2.80	
nmol/l	2.58	2.06	3.10	Abbott Architect (PETINA)	
ng/ml	2.01	1.61	2.41		
nmol/l	2.86	2.29	3.43	Roche Cobas e801	
ng/ml	2.23	1.79	2.67		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	3.30	2.64	3.96	Siemens Atellica IM
	ng/ml	2.58	2.06	3.10	
	nmol/l	2.71	2.17	3.25	Siemens Atellica CH
	ng/ml	2.12	1.69	2.55	
	nmol/l	2.74	2.19	3.29	Abbott Alinity (CMIA)
	ng/ml	2.14	1.71	2.57	
Ethosuximide	nmol/l	2.72	2.18	3.26	Abbott Alinity (PETINA)
	ng/ml	2.12	1.70	2.54	
Ethosuximide	µmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	99.0	79.2	119	Abbott Architect
	ng/ml = µg/l	74.3	59.4	89.2	BioMerieux Vidas
	ng/ml = µg/l	70.0	56.0	84.0	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	88.4	70.7	106	Siemens Dimension
	ng/ml = µg/l	85.9	68.7	103	Siemens Immulite 2000/2500
	ng/ml = µg/l	75.3	60.2	90.4	Siemens Immulite 1000
	ng/ml = µg/l	64.2	51.4	77.0	Beckman Dxl800
	ng/ml = µg/l	102	81.6	122	Roche Elecsys/Cobas e411
	ng/ml = µg/l	89.2	71.4	107	Diasorin Liaison
	ng/ml = µg/l	100	80.0	120	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	64.7	51.8	77.6	Beckman Access
	ng/ml = µg/l	64.1	51.3	76.9	Tosoh Series
	ng/ml = µg/l	59.0	47.2	70.8	Vitros Eci
	ng/ml = µg/l	101	80.8	121	Roche Cobas 4000/c311
	ng/ml = µg/l	81.8	65.4	98.2	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	98.8	79.0	119	Roche Cobas c501/502/503/701/702
	Folate	ng/ml = µg/l	69.8	55.8	83.8
ng/ml = µg/l		94.5	75.6	113	Diasorin Liaison XL
ng/ml = µg/l		101	80.8	121	Abbott Alinity i
ng/ml = µg/l		66.3	53.0	79.6	Siemens Atellica IM
ng/ml = µg/l		98.3	78.6	118	Roche Cobas e801
nmol/l		9.78	7.43	12.1	Abbott Architect
ng/ml		4.31	3.28	5.34	
nmol/l		20.9	15.9	25.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
ng/ml		9.22	7.01	11.4	
nmol/l		8.89	6.76	11.0	Siemens Immulite 2000
ng/ml		3.92	2.98	4.86	
nmol/l	11.9	9.04	14.8	Beckman Dxl 600 / 800 - A14208	
ng/ml	5.25	3.99	6.51		
nmol/l	11.8	8.97	14.6	Beckman Access	
ng/ml	5.20	3.96	6.44		
nmol/l	17.6	13.4	21.8	Tosoh Series	
ng/ml	7.76	5.91	9.61		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	7.67	5.83	9.51	Vitros ECI
	ng/ml	3.38	2.57	4.19	
	nmol/l	7.03	5.34	8.72	Siemens Dimension
	ng/ml	3.10	2.35	3.85	
	nmol/l	12.1	9.20	15.0	Beckman Dxl 600 / 800 - A98032
	ng/ml	5.34	4.06	6.62	
	nmol/l	23.5	17.9	29.1	Siemens Centaur CP (enhanced kit)
	ng/ml	10.4	7.89	12.9	
	nmol/l	11.1	8.44	13.8	Roche Folate III - 04476433
	ng/ml	4.90	3.72	6.08	
	nmol/l	12.2	9.27	15.1	Roche Elecsys Folate
	ng/ml	5.38	4.09	6.67	
	nmol/l	11.1	8.44	13.8	Roche Folate III - 07559992
	ng/ml	4.90	3.72	6.08	
	nmol/l	9.35	7.11	11.6	Diasorin Liaison XL
	ng/ml	4.12	3.14	5.10	
	nmol/l	20.5	15.6	25.4	Siemens Atellica IM
	ng/ml	9.04	6.88	11.2	
nmol/l	10.6	8.06	13.1	Abbott Alinity i	
ng/ml	4.67	3.55	5.79		
nmol/l	11.7	8.89	14.5	Roche Folate 07027290 e801	
ng/ml	5.16	3.92	6.40		
Free T3	pmol/l	12.0	9.00	15.0	Abbott Architect, 2 point calibration
	ng/dl	0.780	0.585	0.975	
	pg/ml	7.81	5.86	9.76	
	pmol/l	12.8	9.60	16.0	BioMerieux Vidas
	ng/dl	0.832	0.624	1.04	
	pg/ml	8.33	6.25	10.4	
	pmol/l	12.9	9.68	16.1	Siemens Centaur XP/XPT/Classic
	ng/dl	0.839	0.629	1.05	
	pg/ml	8.40	6.30	10.5	
	pmol/l	9.55	7.16	11.9	Siemens Immulite 2000/2500
	ng/dl	0.621	0.465	0.777	
	pg/ml	6.22	4.66	7.78	
	pmol/l	10.2	7.65	12.8	Siemens Immulite 1000
	ng/dl	0.663	0.497	0.829	
	pg/ml	6.64	4.98	8.30	
	pmol/l	9.24	6.93	11.6	Beckman Dxl800
	ng/dl	0.601	0.450	0.752	
	pg/ml	6.02	4.51	7.53	
pmol/l	15.3	11.5	19.1	Roche Elecsys	
ng/dl	0.995	0.748	1.24		
pg/ml	9.96	7.49	12.4		
pmol/l	15.9	11.9	19.9	Diasorin Liaison	
ng/dl	1.03	0.774	1.29		
pg/ml	10.4	7.75	13.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	10.2	7.65	12.8	Beckman Access
	ng/dl	0.663	0.497	0.829	
	pg/ml	6.64	4.98	8.30	
	pmol/l	16.8	12.6	21.0	Tosoh Series
	ng/dl	1.09	0.819	1.36	
	pg/ml	10.9	8.20	13.6	
	pmol/l	29.6	22.2	37.0	Vitros ECI
	ng/dl	1.92	1.44	2.40	
	pg/ml	19.3	14.5	24.1	
	pmol/l	15.3	11.5	19.1	Roche Cobas 4000/E411
	ng/dl	0.995	0.748	1.24	
	pg/ml	9.96	7.49	12.4	
	pmol/l	15.3	11.5	19.1	Roche Cobas e601/602
	ng/dl	0.995	0.748	1.24	
	pg/ml	9.96	7.49	12.4	
	pmol/l	14.2	10.7	17.8	Siemens Dimension
	ng/dl	0.923	0.696	1.15	
	pg/ml	9.24	6.97	11.5	
	pmol/l	13.5	10.1	16.9	Siemens Centaur CP
	ng/dl	0.878	0.657	1.10	
	pg/ml	8.79	6.58	11.0	
	pmol/l	13.5	10.1	16.9	Mindray CL-2000i
	ng/dl	0.878	0.657	1.10	
	pg/ml	8.79	6.58	11.0	
pmol/l	16.8	12.6	21.0	Diasorin Liaison XL	
ng/dl	1.09	0.819	1.36		
pg/ml	10.9	8.20	13.6		
pmol/l	13.4	10.1	16.8	Siemens Atellica IM	
ng/dl	0.871	0.657	1.09		
pg/ml	8.72	6.58	10.9		
pmol/l	12.1	9.08	15.1	Abbott Alinity, 2 point cal	
ng/dl	0.787	0.590	0.984		
pg/ml	7.88	5.91	9.85		
pmol/l	12.1	9.08	15.1	Abbott Architect, 6 point calibration	
ng/dl	0.787	0.590	0.984		
pg/ml	7.88	5.91	9.85		
pmol/l	15.1	11.3	18.9	Roche Cobas e801	
ng/dl	0.982	0.735	1.23		
pg/ml	9.83	7.36	12.3		
pmol/l	12.0	9.00	15.0	Abbott Alinity, 6 point cal	
ng/dl	0.780	0.585	0.975		
pg/ml	7.81	5.86	9.76		
Free T4	pmol/l	22.3	16.7	27.9	Abbott Architect
	ng/dl	1.74	1.30	2.18	
	pg/ml	17.4	13.0	21.8	
	pmol/l	23.3	17.5	29.1	Siemens Centaur XP/XPT/Classic
	ng/dl	1.82	1.37	2.27	
pg/ml	18.2	13.7	22.7		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	31.3	23.5	39.1	CIS RIA Coated tube
	ng/dl	2.44	1.83	3.05	
	pg/ml	24.4	18.3	30.5	
	pmol/l	32.9	24.7	41.1	Siemens Immulite 2000/2500
	ng/dl	2.57	1.93	3.21	
	pg/ml	25.7	19.3	32.1	
	pmol/l	33.9	25.4	42.4	Siemens Immulite 1000
	ng/dl	2.64	1.98	3.30	
	pg/ml	26.4	19.8	33.0	
	pmol/l	24.4	18.3	30.5	Beckman Dxl800
	ng/dl	1.90	1.43	2.37	
	pg/ml	19.0	14.3	23.7	
	pmol/l	28.9	21.7	36.1	Roche Elecsys
	ng/dl	2.25	1.69	2.81	
	pg/ml	22.5	16.9	28.1	
	pmol/l	34.2	25.7	42.8	Diasorin Liaison
	ng/dl	2.67	2.00	3.34	
	pg/ml	26.7	20.0	33.4	
	pmol/l	25.4	19.1	31.8	Beckman Access
	ng/dl	1.98	1.49	2.47	
	pg/ml	19.8	14.9	24.7	
	pmol/l	30.8	23.1	38.5	Tosoh Series
	ng/dl	2.40	1.80	3.00	
	pg/ml	24.0	18.0	30.0	
	pmol/l	64.0	48.0	80.0	Vitros ECi
	ng/dl	4.99	3.74	6.24	
	pg/ml	49.9	37.4	62.4	
	pmol/l	29.5	22.1	36.9	Roche Cobas e601/602
	ng/dl	2.30	1.72	2.88	
	pg/ml	23.0	17.2	28.8	
pmol/l	22.6	17.0	28.3	Immunotech IRMA	
ng/dl	1.76	1.33	2.19		
pg/ml	17.6	13.3	21.9		
pmol/l	29.7	22.3	37.1	Roche Cobas 4000/E411	
ng/dl	2.32	1.74	2.90		
pg/ml	23.2	17.4	29.0		
pmol/l	32.3	24.2	40.4	Biomerieux Vidas FT4N Kit	
ng/dl	2.52	1.89	3.15		
pg/ml	25.2	18.9	31.5		
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	23.5	17.6	29.4	Siemens Centaur CP	
ng/dl	1.83	1.37	2.29		
pg/ml	18.3	13.7	22.9		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	30.4	22.8	38.0	Mindray CL-2000i
	ng/dl	2.37	1.78	2.96	
	pg/ml	23.7	17.8	29.6	
	pmol/l	37.4	28.1	46.8	Diasorin Liaison XL
	ng/dl	2.92	2.19	3.65	
	pg/ml	29.2	21.9	36.5	
	pmol/l	23.7	17.8	29.6	Siemens Atellica IM
	ng/dl	1.85	1.39	2.31	
	pg/ml	18.5	13.9	23.1	
	pmol/l	21.3	16.0	26.6	Abbott Alinity i
	ng/dl	1.66	1.25	2.07	
	pg/ml	16.6	12.5	20.7	
pmol/l	29.9	22.4	37.4	Roche Cobas e801	
ng/dl	2.33	1.75	2.91		
pg/ml	23.3	17.5	29.1		
FSH	mU/ml	31.4	25.1	37.7	Abbott Architect
	mU/ml	38.4	30.7	46.1	BioMerieux Vidas
	mU/ml	41.8	33.4	50.2	Siemens Centaur XP/XPT/Classic
	mU/ml	35.0	28.0	42.0	Siemens Immulite 2000/2500
	mU/ml	35.6	28.5	42.7	Siemens Immulite 1000
	mU/ml	36.6	29.3	43.9	Beckman DxI800
	mU/ml	34.1	27.3	40.9	Roche/BM Elecsys
	mU/ml	38.8	31.0	46.6	Diasorin Liaison
	mU/ml	36.5	29.2	43.8	Beckman Access
	mU/ml	37.5	30.0	45.0	Tosoh Series
	mU/ml	27.3	21.8	32.8	Vitros ECi
	mU/ml	35.2	28.2	42.2	Roche Cobas 4000/E411
	mU/ml	32.8	26.2	39.4	Roche Cobas e601/602
	mU/ml	30.0	24.0	36.0	Fujirebio Lumipulse G Series
	mU/ml	39.1	31.3	46.9	Siemens Centaur CP
	mU/ml	40.0	32.0	48.0	Mindray CL-2000i
	mU/ml	48.2	38.6	57.8	Diasorin Liaison XL
	mU/ml	41.9	33.5	50.3	Siemens Atellica IM
mU/ml	31.0	24.8	37.2	Abbott Alinity i	
mU/ml	32.9	26.3	39.5	Roche Cobas e801	
Gentamicin	µmol/l	12.5	10.0	15.0	Siemens Centaur XP/XPT/Classic
	µg/ml	5.98	4.78	7.18	
	µmol/l	10.9	8.72	13.1	Abbott Architect (CMIA)
	µg/ml	5.21	4.17	6.25	
	µmol/l	7.98	6.38	9.58	Roche Cobas 6000/8000 Online KIMS
	µg/ml	3.81	3.05	4.57	
	µmol/l	9.61	7.69	11.5	Roche Cobas 6000/8000 CEDIA
	µg/ml	4.59	3.68	5.50	
µmol/l	10.9	8.72	13.1	Siemens Atellica CH	
µg/ml	5.21	4.17	6.25		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Gentamicin	µmol/l	10.8	8.64	13.0	Abbott Alinity (PETINA)
	µg/ml	5.16	4.13	6.19	
	µmol/l	8.16	6.53	9.79	Gravimetric
	µg/ml	3.90	3.12	4.68	
Growth Hormone (GH)	µU/ml	18.8	15.0	22.6	Siemens Immulite 2000/2500
	ng/ml	6.26	5.00	7.52	
	µU/ml	15.9	12.7	19.1	Siemens Immulite 1000
	ng/ml	5.29	4.23	6.35	
	µU/ml	13.8	11.0	16.6	Beckman DxI800
	ng/ml	4.60	3.66	5.54	
	µU/ml	15.0	12.0	18.0	Beckman Access
	ng/ml	5.00	4.00	6.00	
	µU/ml	17.1	13.7	20.5	Tosoh Series
	ng/ml	5.69	4.56	6.82	
	µU/ml	13.9	11.1	16.7	Diasorin Liaison
	ng/ml	4.63	3.70	5.56	
	µU/ml	16.1	12.9	19.3	Roche Cobas 4000/E411
	ng/ml	5.36	4.30	6.42	
	µU/ml	16.5	13.2	19.8	Roche Cobas e601/602
	ng/ml	5.49	4.40	6.58	
µU/ml	15.8	12.6	19.0	IDS iSYS	
ng/ml	5.26	4.20	6.32		
µU/ml	14.4	11.5	17.3	Diasorin Liaison XL	
ng/ml	4.80	3.83	5.77		
µU/ml	16.8	13.4	20.2	Roche Cobas e801	
ng/ml	5.59	4.46	6.72		
Immunoglobulin E	KIU/l = IU/ml	83.6	66.9	100	Abbott Architect
	KIU/l = IU/ml	96.9	77.5	116	Beckman Immage
	KIU/l = IU/ml	89.3	71.4	107	BioMerieux Vidas
	KIU/l = IU/ml	95.9	76.7	115	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	103	82.4	124	Siemens Immulite 2000/2500
	KIU/l = IU/ml	107	85.6	128	Siemens Immulite 1000
	KIU/l = IU/ml	115	92.0	138	Roche Elecsys
	KIU/l = IU/ml	102	81.6	122	Pharmacia Unicap
	KIU/l = IU/ml	91.7	73.4	110	Tosoh Series
	KIU/l = IU/ml	114	91.2	137	Roche Cobas 4000/E411
	KIU/l = IU/ml	111	88.8	133	Roche Cobas e601/602
	KIU/l = IU/ml	95.6	76.5	115	Siemens Atellica IM
	KIU/l = IU/ml	112	89.6	134	Roche Cobas e801
	KIU/l = IU/ml	81.5	65.2	97.8	Abbott Alinity
Insulin	mU/l	9.83	7.37	12.3	Siemens Centaur XP/XPT/Classic
	µU/ml	9.83	7.37	12.3	
	mU/l	12.1	9.08	15.1	Roche Elecsys
	µU/ml	12.1	9.08	15.1	
	mU/l	8.91	6.68	11.1	Beckman Access
µU/ml	8.91	6.68	11.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	9.03	6.77	11.3	Abbott Architect
	µU/ml	9.03	6.77	11.3	
	mU/l	11.9	8.93	14.9	Tosoh Series
	µU/ml	11.9	8.93	14.9	
	mU/l	12.3	9.23	15.4	Roche Cobas 4000/E411
	µU/ml	12.3	9.23	15.4	
	mU/l	8.34	6.26	10.4	Beckman Dxl 600/800
	µU/ml	8.34	6.26	10.4	
	mU/l	12.3	9.23	15.4	Diasorin Liaison
	µU/ml	12.3	9.23	15.4	
	mU/l	12.0	9.00	15.0	Roche Cobas 6000/8000
	µU/ml	12.0	9.00	15.0	
	mU/l	10.3	7.73	12.9	Fujirebio Lumipulse G Series
	µU/ml	10.3	7.73	12.9	
	mU/l	13.2	9.90	16.5	Diasorin Liaison XL
	µU/ml	13.2	9.90	16.5	
mU/l	9.79	7.34	12.2	Siemens Atellica IM	
µU/ml	9.79	7.34	12.2		
mU/l	8.04	6.03	10.1	Abbott Alinity i	
µU/ml	8.04	6.03	10.1		
Luteinising Hormone (LH)	mU/ml	27.4	21.9	32.9	Abbott Architect
	mU/ml	32.3	25.8	38.8	BioMerieux Vidas
	mU/ml	34.6	27.7	41.5	Siemens Centaur XP/XPT/Classic
	mU/ml	49.0	39.2	58.8	Siemens Immulite 2000
	mU/ml	49.6	39.7	59.5	Siemens Immulite 1000
	mU/ml	28.3	22.6	34.0	Beckman Dxl800
	mU/ml	36.5	29.2	43.8	Roche Elecsys
	mU/ml	42.7	34.2	51.2	Diasorin Liaison
	mU/ml	28.4	22.7	34.1	Beckman Access
	mU/ml	31.6	25.3	37.9	Tosoh Series
	mU/ml	46.7	37.4	56.0	Vitros ECi
	mU/ml	37.5	30.0	45.0	Roche Cobas 4000/E411
	mU/ml	37.3	29.8	44.8	Roche Cobas e601/602
	mU/ml	31.1	24.9	37.3	Fujirebio Lumipulse G Series
	mU/ml	34.9	27.9	41.9	Siemens Centaur CP
	mU/ml	37.6	30.1	45.1	Mindray CL-2000i
	mU/ml	42.8	34.2	51.4	Diasorin Liaison XL
	mU/ml	35.1	28.1	42.1	Siemens Atellica IM
	mU/ml	26.6	21.3	31.9	Abbott Alinity i
	mU/ml	37.4	29.9	44.9	Roche Cobas e801
Oestradiol	pmol/l	755	604	906	Abbott Architect
	pg/ml	205	164	246	
	pmol/l	1343	1074	1612	BioMerieux Vidas
	pg/ml	365	292	438	
	pmol/l	1037	830	1244	Siemens Centaur XP/XPT/Classic
pg/ml	282	226	338		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1117	894	1340	Siemens Immulite 2000/2500
	pg/ml	304	243	365	
	pmol/l	1103	882	1324	Siemens Immulite 1000
	pg/ml	300	240	360	
	pmol/l	803	642	964	Beckman Dxl800
	pg/ml	218	175	261	
	pmol/l	794	635	953	Roche Elecsys (Estradiol II)
	pg/ml	216	173	259	
	pmol/l	945	756	1134	Beckman Access
	pg/ml	257	206	308	
	pmol/l	1157	926	1388	Vitros ECi
	pg/ml	315	252	378	
	pmol/l	626	501	751	Diasorin Liaison
	pg/ml	170	136	204	
	pmol/l	809	647	971	Roche Cobas e601/602 (Estradiol II)
	pg/ml	220	176	264	
	pmol/l	803	642	964	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	218	175	261	
	pmol/l	1060	848	1272	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	288	231	345	
	pmol/l	779	623	935	Tosoh (iE2-hsE2)
	pg/ml	212	169	255	
	pmol/l	1051	841	1261	Siemens Centaur CP Enhanced (eE2)
	pg/ml	286	229	343	
pmol/l	1041	833	1249	Fujirebio Lumipulse G Series	
pg/ml	283	227	339		
pmol/l	812	650	974	Roche Cobas e601/602 (Estradiol III)	
pg/ml	221	177	265		
pmol/l	793	634	952	Roche Elecsys (Estradiol III)	
pg/ml	216	172	260		
pmol/l	805	644	966	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	219	175	263		
pmol/l	644	515	773	Diasorin Liaison XL	
pg/ml	175	140	210		
pmol/l	872	698	1046	Beckman Access / Access 2 Sensitive B84493	
pg/ml	237	190	284		
pmol/l	793	634	952	Beckman Dxl600/800 Sensitive B84493	
pg/ml	216	172	260		
pmol/l	1112	890	1334	Siemens Atellica IM	
pg/ml	302	242	362		
pmol/l	742	594	890	Abbott Alinity i	
pg/ml	202	162	242		
pmol/l	803	642	964	Roche Cobas e801 (Estradiol III)	
pg/ml	218	175	261		
Paracetamol	mmol/l	0.333	0.266	0.400	Abbott Architect
	mg/l	50.4	40.2	60.6	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Paracetamol	mmol/l	0.312	0.250	0.374	Roche Cobas c501/502/503/701/702	
	mg/l	47.2	37.8	56.6		
	mmol/l	0.337	0.270	0.404	Beckman AU Instruments	
	mg/l	51.0	40.9	61.1		
	mmol/l	0.352	0.282	0.422	EMIT	
	mg/l	53.3	42.7	63.9		
	mmol/l	0.341	0.273	0.409	Abbott Alinity	
	mg/l	51.6	41.3	61.9		
	mmol/l	0.348	0.280	0.420	Gravimetric	
	mg/l	52.7	42.4	63.5		
	Phenobarbital	µmol/l	81.9	65.5	98.3	Abbott Architect (CMIA)
		µg/ml	19.0	15.2	22.8	
µmol/l		72.9	58.3	87.5	Roche Cobas e601/602/801	
µg/ml		16.9	13.5	20.3		
µmol/l		76.9	61.5	92.3	Beckman AU400/600/640/2700/5400	
µg/ml		17.8	14.3	21.3		
µmol/l		105	84.0	126	Siemens Centaur XP/XPT/Classic	
µg/ml		24.4	19.5	29.3		
µmol/l		77.2	61.8	92.6	Roche Integra	
µg/ml		17.9	14.3	21.5		
µmol/l		81.1	64.9	97.3	Siemens Atellica CH	
µg/ml		18.8	15.1	22.5		
µmol/l		70.0	56.0	84.0	Abbott Alinity (PETINA)	
µg/ml		16.2	13.0	19.4		
Phenytoin	µmol/l	66.3	53.0	79.6	Abbott Architect	
	µg/ml	16.7	13.4	20.0		
	µmol/l	82.7	66.2	99.0	Siemens Centaur XP/XPT/Classic	
	µg/ml	20.9	16.7	25.1		
	µmol/l	73.5	58.8	88.2	Siemens Dimension	
	µg/ml	18.6	14.8	22.4		
	µmol/l	65.2	52.2	78.2	Siemens Immulite 2000/2500	
	µg/ml	16.5	13.2	19.8		
	µmol/l	66.1	52.9	79.3	Roche Integra	
	µg/ml	16.7	13.4	20.0		
	µmol/l	67.4	53.9	80.9	Vitros	
	µg/ml	17.0	13.6	20.4		
	µmol/l	67.1	53.7	80.5	Roche Cobas 6000/8000	
	µg/ml	16.9	13.6	20.2		
	µmol/l	66.5	53.2	79.8	EMIT	
	µg/ml	16.8	13.4	20.2		
	µmol/l	70.8	56.6	85.0	Siemens Atellica CH	
	µg/ml	17.9	14.3	21.5		
µmol/l	70.6	56.5	84.7	Abbott Alinity		
µg/ml	17.8	14.3	21.3			

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

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	29.3	23.4	35.2	Abbott Architect
	ng/ml	9.17	7.32	11.0	
	nmol/l	45.8	36.6	55.0	BioMerieux Vidas
	ng/ml	14.3	11.5	17.1	
	nmol/l	25.8	20.6	31.0	Siemens Centaur XP/XPT/Classic
	ng/ml	8.08	6.45	9.71	
	nmol/l	27.7	22.2	33.2	Siemens Immulite 2000/2500
	ng/ml	8.67	6.95	10.4	
	nmol/l	30.5	24.4	36.6	Siemens Immulite 1000
	ng/ml	9.55	7.64	11.5	
	nmol/l	32.4	25.9	38.9	Beckman Dxl Prog Cal 33555
	ng/ml	10.1	8.11	12.1	
	nmol/l	36.1	28.9	43.3	Roche Elecsys (Prog. II)
	ng/ml	11.3	9.05	13.6	
	nmol/l	32.8	26.2	39.4	Beckman Access Prog Cal 33555
	ng/ml	10.3	8.20	12.4	
	nmol/l	40.3	32.2	48.4	Tosoh Series
	ng/ml	12.6	10.1	15.1	
	nmol/l	36.4	29.1	43.7	Vitros ECi
	ng/ml	11.4	9.11	13.7	
	nmol/l	35.4	28.3	42.5	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	11.1	8.86	13.3	
	nmol/l	35.8	28.6	43.0	Roche Cobas e601/602 (Prog. II)
	ng/ml	11.2	8.95	13.5	
	nmol/l	30.3	24.2	36.4	Diasorin Liaison
	ng/ml	9.48	7.57	11.4	
	nmol/l	29.7	23.8	35.6	Beckman Dxl Prog DE Cal A80773
	ng/ml	9.30	7.45	11.2	
nmol/l	28.3	22.6	34.0	Beckman Access Prog DE Cal A80773	
ng/ml	8.86	7.07	10.7		
nmol/l	26.8	21.4	32.2	Siemens Centaur CP	
ng/ml	8.39	6.70	10.1		
nmol/l	47.1	37.7	56.5	Mindray CL-2000i	
ng/ml	14.7	11.8	17.6		
nmol/l	35.9	28.7	43.1	Roche Cobas e601/602 (Prog. III)	
ng/ml	11.2	8.98	13.4		
nmol/l	35.8	28.6	43.0	Roche Elecsys (Prog. III)	
ng/ml	11.2	8.95	13.5		
nmol/l	35.6	28.5	42.7	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	11.1	8.92	13.3		
nmol/l	32.8	26.2	39.4	Diasorin Liaison XL	
ng/ml	10.3	8.20	12.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	28.3	22.6	34.0	Abbott Alinity i
	ng/ml	8.86	7.07	10.7	
	nmol/l	35.9	28.7	43.1	Roche Cobas e801 (Prog. III)
	ng/ml	11.2	8.98	13.4	
Prolactin	µU/ml	587	470	704	Abbott Architect
	µU/ml	658	526	790	BioMerieux Vidas
	µU/ml	477	382	572	Siemens Centaur XP/XPT/Classic
	µU/ml	500	400	600	Siemens Immulite 2000/2500
	µU/ml	557	446	668	Siemens Immulite 1000
	µU/ml	493	394	592	Beckman Dxl800
	µU/ml	638	510	766	Roche Elecsys
	µU/ml	661	529	793	Diasorin Liaison
	µU/ml	508	406	610	Beckman Access
	µU/ml	548	438	658	Tosoh Series
	µU/ml	528	422	634	Vitros ECi
	µU/ml	616	493	739	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	574	459	689	Immunotech IRMA
	µU/ml	649	519	779	Roche Cobas 4000/E411
	µU/ml	619	495	743	Roche Cobas e601/602
	µU/ml	645	516	774	Fujirebio Lumipulse G Series
	µU/ml	465	372	558	Siemens Centaur CP
	µU/ml	660	528	792	Mindray CL-2000i
	µU/ml	624	499	749	Diasorin Liaison XL
	µU/ml	471	377	565	Siemens Atellica IM
µU/ml	609	487	731	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	13.2	9.90	16.5	BioMerieux Vidas
	ng/ml = µg/l	9.92	7.44	12.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	8.54	6.41	10.7	Siemens Immulite 2000/2500
	ng/ml = µg/l	8.04	6.03	10.1	Siemens Immulite 1000
	ng/ml = µg/l	12.9	9.68	16.1	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	10.2	7.65	12.8	Roche Elecsys
	ng/ml = µg/l	9.05	6.79	11.3	Diasorin Liaison
	ng/ml = µg/l	13.2	9.90	16.5	Beckman Access standardised to Hybritech
	ng/ml = µg/l	9.62	7.22	12.0	Tosoh Series
	ng/ml = µg/l	9.91	7.43	12.4	Roche Cobas 4000/E411
	ng/ml = µg/l	9.78	7.34	12.2	Roche Cobas e601/602
	ng/ml = µg/l	8.77	6.58	11.0	Siemens Dimension Vista
	ng/ml = µg/l	11.7	8.78	14.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.1	9.08	15.1	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	9.54	7.16	11.9	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	8.05	6.04	10.1	Fujirebio Lumipulse G Series
	ng/ml = µg/l	10.0	7.50	12.5	Diasorin Liaison XL
	ng/ml = µg/l	10.5	7.88	13.1	Siemens Atellica IM
	ng/ml = µg/l	11.2	8.40	14.0	Abbott Alinity i

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Range					
Analyte	unit	Target	low	high	methods
PSA Free	ng/ml = µg/l	9.39	7.04	11.7	Roche Cobas e801
PSA Total	ng/ml = µg/l	9.97	7.48	12.5	Abbott Architect
	ng/ml = µg/l	11.3	8.48	14.1	BioMerieux Vidas
	ng/ml = µg/l	11.8	8.85	14.8	bioMerieux VIDAS TPSA
	ng/ml = µg/l	11.5	8.63	14.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.95	7.46	12.4	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	9.53	7.15	11.9	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	10.3	7.73	12.9	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	12.0	9.00	15.0	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	10.1	7.58	12.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	12.5	9.38	15.6	Roche Elecsys
	ng/ml = µg/l	12.1	9.08	15.1	Diasorin Liaison
	ng/ml = µg/l	12.5	9.38	15.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	12.1	9.08	15.1	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	9.10	6.83	11.4	Tosoh Series
	ng/ml = µg/l	12.8	9.60	16.0	Vitros ECi
	ng/ml = µg/l	14.1	10.6	17.6	CIS RIA Coated tube
	ng/ml = µg/l	13.0	9.75	16.3	Roche Cobas 4000/E411
	ng/ml = µg/l	12.6	9.45	15.8	Roche Cobas e601/602
	ng/ml = µg/l	9.15	6.86	11.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	12.9	9.68	16.1	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	11.1	8.33	13.9	Siemens Centaur CP
	ng/ml = µg/l	11.5	8.63	14.4	Diasorin Liaison XL
	ng/ml = µg/l	12.2	9.15	15.3	Siemens Atellica IM
ng/ml = µg/l	10.0	7.50	12.5	Abbott Alinity i	
ng/ml = µg/l	12.2	9.15	15.3	Roche Cobas e801	
Salicylic Acid	mmol/l	1.21	0.968	1.45	Abbott Architect
	mg/dl	16.7	13.4	20.0	
	mmol/l	1.20	0.960	1.44	Roche Cobas c501/502/503
	mg/dl	16.6	13.3	19.9	
	mmol/l	1.26	1.01	1.51	EMIT
	mg/dl	17.4	14.0	20.8	
SHBG	nmol/l	39.6	31.7	47.5	Siemens Immulite 2000/2500
	nmol/l	42.8	34.2	51.4	Abbott Architect
	nmol/l	42.1	33.7	50.5	Beckman Access
	nmol/l	41.4	33.1	49.7	Beckman Dxl800
	nmol/l	41.4	33.1	49.7	Siemens Atellica IM
	nmol/l	39.3	31.4	47.2	Roche analysers - 413417/15
	nmol/l	37.0	29.6	44.4	Roche Cobas e801 - 413429
	nmol/l	42.3	33.8	50.8	Abbott Alinity i
T Uptake	%U	33.3	27.3	39.3	Siemens Immulite 2000
Testosterone	nmol/l	14.0	11.2	16.8	Abbott Architect
	ng/ml	4.03	3.23	4.83	
	ng/dl	403	323	483	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	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	14.5	11.6	17.4	Siemens Centaur XP/XPT/Classic
	ng/ml	4.18	3.34	5.02	
	ng/dl	418	334	502	
	nmol/l	14.2	11.4	17.0	CIS RIA Coated tube
	ng/ml	4.09	3.28	4.90	
	ng/dl	409	328	490	
	nmol/l	16.1	12.9	19.3	Siemens Immulite 2000/2500
	ng/ml	4.64	3.72	5.56	
	ng/dl	464	372	556	
	nmol/l	16.8	13.4	20.2	Siemens Immulite 1000
	ng/ml	4.84	3.86	5.82	
	ng/dl	484	386	582	
	nmol/l	12.5	10.0	15.0	Beckman Dxl800
	ng/ml	3.60	2.88	4.32	
	ng/dl	360	288	432	
	nmol/l	13.7	11.0	16.4	Beckman Access
	ng/ml	3.95	3.17	4.73	
	ng/dl	395	317	473	
	nmol/l	18.4	14.7	22.1	Tosoh Series
	ng/ml	5.30	4.23	6.37	
	ng/dl	530	423	637	
	nmol/l	17.5	14.0	21.0	Vitros ECI
	ng/ml	5.04	4.03	6.05	
	ng/dl	504	403	605	
	nmol/l	14.6	11.7	17.5	Roche Cobas e601/602 Test II
	ng/ml	4.20	3.37	5.03	
	ng/dl	420	337	503	
nmol/l	14.9	11.9	17.9	Roche Elecsys Test II	
ng/ml	4.29	3.43	5.15		
ng/dl	429	343	515		
nmol/l	14.6	11.7	17.5	Roche Cobas 4000/e411 Test II	
ng/ml	4.20	3.37	5.03		
ng/dl	420	337	503		
nmol/l	13.8	11.0	16.6	Abbott Architect 2nd Generation	
ng/ml	3.97	3.17	4.77		
ng/dl	397	317	477		
nmol/l	12.3	9.84	14.8	BioMerieux Vidas Testosterone II	
ng/ml	3.54	2.83	4.25		
ng/dl	354	283	425		
nmol/l	20.9	16.7	25.1	Mindray CL-2000i	
ng/ml	6.02	4.81	7.23		
ng/dl	602	481	723		
nmol/l	14.4	11.5	17.3	Siemens Centaur TST II	
ng/ml	4.15	3.31	4.99		
ng/dl	415	331	499		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Testosterone	nmol/l	8.46	6.77	10.2	Diasorin Liaison XL	
	ng/ml	2.44	1.95	2.93		
	ng/dl	244	195	293		
	nmol/l	14.5	11.6	17.4	Siemens Atellica IM	
		ng/ml	4.18	3.34		5.02
		ng/dl	418	334		502
	nmol/l	14.7	11.8	17.6	Roche Cobas e801 Test II	
		ng/ml	4.23	3.40		5.06
		ng/dl	423	340		506
	nmol/l	14.2	11.4	17.0	Abbott Alinity i	
		ng/ml	4.09	3.28		4.90
		ng/dl	409	328		490
Theophylline	µmol/l	82.5	66.0	99.0	Siemens Centaur XP/XPT/Classic	
	µg/ml	14.9	11.9	17.9		
	µmol/l	86.0	68.8	103	Roche Integra	
		µg/ml	15.5	12.4		18.6
	µmol/l	77.3	61.8	92.8	Abbott Architect (CMIA)	
		µg/ml	13.9	11.1		16.7
	µmol/l	80.9	64.7	97.1	Roche Cobas 6000/8000	
		µg/ml	14.6	11.7		17.5
	µmol/l	81.2	65.0	97.4	Beckman AU400/600/640/2700/5400	
		µg/ml	14.6	11.7		17.5
	µmol/l	82.2	65.8	98.6	Abbott Alinity Enzyme-Immu	
		µg/ml	14.8	11.9		17.7
	µmol/l	83.8	67.0	101	Gravimetric	
		µg/ml	15.1	12.1		18.2
	Thyroglobulin	ng/ml	18.9	14.2	23.6	Siemens Immulite 1000
		ng/ml	18.7	14.0	23.4	Siemens Immulite 2000
ng/ml		40.8	30.6	51.0	Roche Elecsys	
ng/ml		35.6	26.7	44.5	Beckman Dxl800	
ng/ml		41.3	31.0	51.6	Roche Cobas 4000/E411	
ng/ml		39.3	29.5	49.1	Roche Cobas e601/602	
ng/ml		36.8	27.6	46.0	Beckman Access	
ng/ml		44.2	33.2	55.3	Abbott Architect 2000i	
ng/ml		39.9	29.9	49.9	Tosoh Series	
ng/ml		39.6	29.7	49.5	Roche Cobas e601/602 Tg II	
ng/ml		41.1	30.8	51.4	Roche Elecsys TGII	
ng/ml		40.3	30.2	50.4	Roche Cobas 4000/E411 TGII	
ng/ml		35.8	26.9	44.8	Diasorin Liaison XL	
ng/ml		41.2	30.9	51.5	Roche Cobas e801 Tg II	
ng/ml		35.6	26.7	44.5	DiaSorin Liaison TG II Gen	
ng/ml		36.2	27.2	45.3	DiaSorin Liaison XL TG II Gen	
ng/ml		43.6	32.7	54.5	Abbott Alinity i	
Thyroid Stimulating		µU/ml = mIU/l	2.18	1.74	2.62	Abbott Architect

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.67	2.14	3.20	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.46	1.97	2.95	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	3.19	2.55	3.83	CIS IRMA
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.72	2.18	3.26	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.58	2.06	3.10	Siemens Immulite 1000
	µU/ml = mIU/l	2.49	1.99	2.99	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.43	1.94	2.92	Beckman Dxl800
	µU/ml = mIU/l	2.84	2.27	3.41	Roche Elecsys
	µU/ml = mIU/l	3.00	2.40	3.60	Diasorin Liaison
	µU/ml = mIU/l	2.41	1.93	2.89	Beckman Access Fast TSH
	µU/ml = mIU/l	2.41	1.93	2.89	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.74	2.19	3.29	Tosoh Series
	µU/ml = mIU/l	2.81	2.25	3.37	Vitros ECi
	µU/ml = mIU/l	2.85	2.28	3.42	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.86	2.29	3.43	Roche Cobas e601/602
	µU/ml = mIU/l	2.75	2.20	3.30	ELISA
	µU/ml = mIU/l	2.46	1.97	2.95	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.41	1.93	2.89	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.50	2.00	3.00	Siemens Centaur CP
	µU/ml = mIU/l	2.33	1.86	2.80	Siemens Centaur CP TSH3-Ultra
µU/ml = mIU/l	3.10	2.48	3.72	Mindray CL-2000i	
µU/ml = mIU/l	2.42	1.94	2.90	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	3.18	2.54	3.82	Diasorin Liaison XL	
µU/ml = mIU/l	2.54	2.03	3.05	Siemens Atellica IM	
µU/ml = mIU/l	2.19	1.75	2.63	Abbott Alinity i	
µU/ml = mIU/l	2.72	2.18	3.26	Roche Cobas e801	
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	17.0	13.6	20.4	Abbott Architect
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	27.9	22.3	33.5	BioMerieux Vidas
	IU/ml	0.028	0.022	0.034	
	mU/ml=IU/l	18.1	14.5	21.7	Siemens Centaur XP/XPT/Classic
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	30.5	24.4	36.6	Siemens Dimension
	IU/ml	0.031	0.024	0.038	
	mU/ml=IU/l	37.3	29.8	44.8	Siemens Immulite 2000
	IU/ml	0.037	0.030	0.044	
	mU/ml=IU/l	37.6	30.1	45.1	Siemens Immulite 1000
	IU/ml	0.038	0.030	0.046	
	mU/ml=IU/l	18.9	15.1	22.7	Beckman Dxl800
	IU/ml	0.019	0.015	0.023	
mU/ml=IU/l	14.7	11.8	17.6	Diasorin Liaison	
IU/ml	0.015	0.012	0.018		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	19.4	15.5	23.3	Roche Cobas Core EIA
	IU/ml	0.019	0.016	0.022	
	mU/ml=IU/l	18.6	14.9	22.3	Beckman Access
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	29.5	23.6	35.4	Tosoh Series
	IU/ml	0.030	0.024	0.036	
	mU/ml=IU/l	31.8	25.4	38.2	Vitros ECI
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	14.7	11.8	17.6	Roche hCG STAT (Intact)
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	19.4	15.5	23.3	Roche hCG+Beta
	IU/ml	0.019	0.016	0.022	
	mU/ml=IU/l	18.4	14.7	22.1	Beckman Access Total BhCG (5th IS)
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	19.1	15.3	22.9	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	18.3	14.6	22.0	Siemens Centaur CP
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	16.3	13.0	19.6	Diasorin Liaison XL
	IU/ml	0.016	0.013	0.019	
mU/ml=IU/l	19.6	15.7	23.5	Siemens Atellica IM	
IU/ml	0.020	0.016	0.024		
mU/ml=IU/l	17.3	13.8	20.8	Abbott Alinity i	
IU/ml	0.017	0.014	0.020		
mU/ml=IU/l	18.8	15.0	22.6	Roche hCG+Beta e801	
IU/ml	0.019	0.015	0.023		
Total T3	nmol/l	3.31	2.48	4.14	Abbott Architect
	ng/ml	2.15	1.61	2.69	
	ng/dl	215	161	269	
	nmol/l	3.87	2.90	4.84	BioMerieux Vidas
	ng/ml	2.52	1.89	3.15	
	ng/dl	252	189	315	
	nmol/l	4.19	3.14	5.24	Siemens Centaur XP/XPT/Classic
	ng/ml	2.73	2.04	3.42	
	ng/dl	273	204	342	
	nmol/l	3.47	2.60	4.34	Siemens Immulite 2000/2500
	ng/ml	2.26	1.69	2.83	
	ng/dl	226	169	283	
	nmol/l	3.43	2.57	4.29	Siemens Immulite 1000
	ng/ml	2.23	1.67	2.79	
	ng/dl	223	167	279	
	nmol/l	3.52	2.64	4.40	Beckman Dxl800
	ng/ml	2.29	1.72	2.86	
	ng/dl	229	172	286	
	nmol/l	4.03	3.02	5.04	Roche Elecsys
	ng/ml	2.62	1.97	3.27	
ng/dl	262	197	327		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.55	2.66	4.44	Beckman Access
	ng/ml	2.31	1.73	2.89	
	ng/dl	231	173	289	
	nmol/l	3.70	2.78	4.63	Tosoh Series
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	4.36	3.27	5.45	Vitros ECI
	ng/ml	2.84	2.13	3.55	
	ng/dl	284	213	355	
	nmol/l	3.01	2.26	3.76	CIS RIA Coated tube
	ng/ml	1.96	1.47	2.45	
	ng/dl	196	147	245	
	nmol/l	3.84	2.88	4.80	Roche Cobas 4000/E411
	ng/ml	2.50	1.87	3.13	
	ng/dl	250	187	313	
	nmol/l	3.85	2.89	4.81	Roche Cobas e601/602
	ng/ml	2.51	1.88	3.14	
	ng/dl	251	188	314	
	nmol/l	4.42	3.32	5.53	Siemens Centaur CP
	ng/ml	2.88	2.16	3.60	
	ng/dl	288	216	360	
nmol/l	2.91	2.18	3.64	Diasorin Liaison XL	
ng/ml	1.89	1.42	2.36		
ng/dl	189	142	236		
nmol/l	3.33	2.50	4.16	Abbott Alinity i	
ng/ml	2.17	1.63	2.71		
ng/dl	217	163	271		
nmol/l	4.19	3.14	5.24	Siemens Atellica IM	
ng/ml	2.73	2.04	3.42		
ng/dl	273	204	342		
nmol/l	4.11	3.08	5.14	Roche Cobas e801	
ng/ml	2.68	2.01	3.35		
ng/dl	268	201	335		
Total T4	nmol/l	115	86.3	144	Abbott Architect
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	
	nmol/l	121	90.8	151	BioMerieux Vidas
	µg/dl	9.44	7.08	11.8	
	ng/ml	94.4	70.8	118	
	nmol/l	123	92.3	154	Siemens Centaur XP/XPT/Classic
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	115	86.3	144	Siemens Immulite 2000/2500
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	117	87.8	146	Siemens Immulite 1000
	µg/dl	9.13	6.85	11.4	
	ng/ml	91.3	68.5	114	
	nmol/l	120	90.0	150	Beckman DxI800
	µg/dl	9.36	7.02	11.7	
	ng/ml	93.6	70.2	117	
	nmol/l	109	81.8	136	Roche Elecsys
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	122	91.5	153	Beckman Access
	µg/dl	9.52	7.14	11.9	
	ng/ml	95.2	71.4	119	
	nmol/l	112	84.0	140	Tosoh Series
	µg/dl	8.74	6.55	10.9	
	ng/ml	87.4	65.5	109	
	nmol/l	123	92.3	154	Vitros ECi
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	113	84.8	141	CIS RIA Coated tube
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	110	82.5	138	Roche Cobas 4000/E411
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
	nmol/l	107	80.3	134	Roche Cobas e601/602
	µg/dl	8.35	6.26	10.4	
	ng/ml	83.5	62.6	104	
	nmol/l	91.4	68.6	114	Immunotech IRMA
	µg/dl	7.13	5.35	8.91	
	ng/ml	71.3	53.5	89.1	
nmol/l	126	94.5	158	Siemens Centaur CP	
µg/dl	9.83	7.37	12.3		
ng/ml	98.3	73.7	123		
nmol/l	103	77.3	129	Diasorin Liaison XL	
µg/dl	8.03	6.03	10.0		
ng/ml	80.3	60.3	100		
nmol/l	112	84.0	140	Abbott Alinity i	
µg/dl	8.74	6.55	10.9		
ng/ml	87.4	65.5	109		
nmol/l	134	101	168	Siemens Atellica IM	
µg/dl	10.5	7.88	13.1		
ng/ml	105	78.8	131		
nmol/l	108	81.0	135	Roche Cobas e801	
µg/dl	8.42	6.32	10.5		
ng/ml	84.2	63.2	105		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	516	413	619	Abbott Architect (CMIA)
	µg/ml	74.5	59.6	89.4	
	µmol/l	559	447	671	Siemens Centaur XP/XPT/Classic
	µg/ml	80.7	64.5	96.9	
	µmol/l	555	444	666	Siemens Dimension
	µg/ml	80.1	64.1	96.1	
	µmol/l	558	446	670	Siemens Immulite 2000/2500
	µg/ml	80.5	64.4	96.6	
	µmol/l	610	488	732	Siemens Immulite 1000
	µg/ml	88.0	70.4	106	
	µmol/l	525	420	630	Roche Integra
	µg/ml	75.8	60.6	91.0	
	µmol/l	545	436	654	Roche Cobas 6000/8000
	µg/ml	78.6	62.9	94.3	
	µmol/l	536	429	643	Beckman DxC
	µg/ml	77.3	61.9	92.7	
	µmol/l	574	459	689	Beckman AU400/600/640/2700/5400
	µg/ml	82.8	66.2	99.4	
	µmol/l	506	405	607	Abbott Architect (PETINA)
	µg/ml	73.0	58.4	87.6	
µmol/l	587	470	704	EMIT	
µg/ml	84.7	67.8	102		
µmol/l	545	436	654	Siemens Atellica CH	
µg/ml	78.6	62.9	94.3		
µmol/l	506	405	607	Abbott Alinity (CMIA)	
µg/ml	73.0	58.4	87.6		
µmol/l	516	413	619	Abbott Alinity (PETINA)	
µg/ml	74.5	59.6	89.4		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	7.49	5.99	8.99	Roche Integra
	µg/ml	11.1	8.90	13.3	
	µmol/l	6.32	5.06	7.58	Ortho Vitros Microslide Systems
	µg/ml	9.39	7.52	11.3	
	µmol/l	8.34	6.67	10.0	Abbott Architect (CMIA)
	µg/ml	12.4	9.91	14.9	
	µmol/l	7.04	5.63	8.45	Siemens Centaur XP/XPT/Classic
	µg/ml	10.5	8.36	12.6	
	µmol/l	7.95	6.36	9.54	Siemens Dimension
	µg/ml	11.8	9.45	14.2	
	µmol/l	7.47	5.98	8.96	Roche Cobas 6000/8000
	µg/ml	11.1	8.88	13.3	
µmol/l	7.88	6.30	9.46	Thermo Scientific QMS Vancomycin	
µg/ml	11.7	9.36	14.0		
µmol/l	7.44	5.95	8.93	Siemens Atellica CH	
µg/ml	11.1	8.84	13.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	7.40	5.92	8.88	Abbott Alinity (PETINA)
	µg/ml	11.0	8.80	13.2	
	µmol/l	7.10	5.68	8.52	Gravimetric
	µg/ml	10.5	8.44	12.7	
Vitamin B12	pmol/l	354	283	425	Abbott Architect
	pg/ml	480	383	577	
	pmol/l	403	322	484	Siemens Centaur XP/XPT/Classic
	pg/ml	546	436	656	
	pmol/l	413	330	496	Siemens Immulite 2000
	pg/ml	560	447	673	
	pmol/l	300	240	360	Beckman Dxl800
	pg/ml	407	325	489	
	pmol/l	412	330	494	Roche Elecsys
	pg/ml	558	447	669	
	pmol/l	314	251	377	Beckman Access
	pg/ml	425	340	510	
	pmol/l	505	404	606	Tosoh Series
	pg/ml	684	547	821	
	pmol/l	402	322	482	Vitros Eci
	pg/ml	545	436	654	
	pmol/l	353	282	424	Siemens Dimension
	pg/ml	478	382	574	
	pmol/l	434	347	521	Siemens Centaur CP
	pg/ml	588	470	706	
	pmol/l	382	306	458	Roche Cobas 4000/e411 Gen II
	pg/ml	518	415	621	
	pmol/l	414	331	497	Roche Cobas e601/602 Gen II
	pg/ml	561	449	673	
pmol/l	311	249	373	Diasorin Liaison XL	
pg/ml	421	337	505		
pmol/l	436	349	523	Siemens Atellica IM	
pg/ml	591	473	709		
pmol/l	332	266	398	Abbott Alinity i	
pg/ml	450	360	540		
pmol/l	419	335	503	Roche Cobas e801 Gen II	
pg/ml	568	454	682		