

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. 1939EC	EXPIRY: 2022-12-28	

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 Plus is supplied lyophilised.

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

MATERIALS PROVIDED

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

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

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

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



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

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IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	9.32	6.99	11.7	Immunotech RIA
	ng/ml	3.08	2.31	3.85	
	nmol/l	13.0	9.75	16.3	DRG ELISA
	ng/ml	4.30	3.23	5.37	
	nmol/l	12.3	9.23	15.4	DIAsource RIA
	ng/ml	4.07	3.06	5.08	
nmol/l	15.8	11.9	19.8	IBL ELISA	
ng/ml	5.23	3.94	6.52		
25-OH Vitamin D	nmol/l	63.6	47.7	79.5	Diasorin Liaison
	nmol/l	74.1	55.6	92.6	Siemens Centaur XP/XPT/Classic
	nmol/l	49.0	36.8	61.3	Roche Vitamin D Total
	nmol/l	51.6	38.7	64.5	Abbott Architect
	nmol/l	74.1	55.6	92.6	Vitros ECi
	nmol/l	52.8	39.6	66.0	Tosoh Series
	nmol/l	54.1	40.6	67.6	BioMerieux Vidas
	nmol/l	48.3	36.2	60.4	Beckman Dxl 600/800
	nmol/l	52.5	39.4	65.6	Fujirebio Lumipulse G Series
	nmol/l	50.9	38.2	63.6	Beckman Access 25 OH Vitamin D Total
	nmol/l	51.3	38.5	64.1	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	62.7	47.0	78.4	Diasorin Liaison XL
	nmol/l	56.3	42.2	70.4	Roche Vitamin D Total II
	nmol/l	69.9	52.4	87.4	Siemens Atellica IM
ACTH	pmol/l	19.1	14.3	23.9	Siemens Immulite 2000/2500
	pg/ml	86.8	65.0	109	
	pmol/l	19.2	14.4	24.0	Roche Cobas E411
	pg/ml	87.3	65.4	109	
	pmol/l	18.5	13.9	23.1	Roche Cobas 6000/8000
	pg/ml	84.1	63.2	105	
	pmol/l	31.8	23.9	39.8	CIS IRMA
	pg/ml	145	109	181	
	pmol/l	19.4	14.6	24.3	Siemens Immulite 1000
	pg/ml	88.2	66.4	110	
pmol/l	28.8	21.6	36.0	Diasorin Liaison XL	
pg/ml	131	98.2	164		
Aldosterone	pmol/l	451	338	564	DRG ELISA
	pg/ml	163	122	204	
	pmol/l	36.5	27.4	45.6	CIS RIA
	pg/ml	13.2	9.89	16.5	
	pmol/l	289	217	361	Diasorin Liaison
	pg/ml	104	78.3	130	
pmol/l	298	224	373	Diasorin Liaison XL	
pg/ml	108	80.8	135		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	44.3	35.4	53.2	Abbott AFP-EIA
	ng/ml	53.6	42.8	64.4	
	KIU/l = IU/ml	42.9	34.3	51.5	Abbott Architect
	ng/ml	51.9	41.5	62.3	
	KIU/l = IU/ml	41.6	33.3	49.9	BioMerieux Vidas
	ng/ml	50.3	40.3	60.3	
	KIU/l = IU/ml	50.0	39.5	60.5	Siemens Centaur XP/XPT/Classic
	ng/ml	60.5	47.8	73.2	
	KIU/l = IU/ml	42.6	34.1	51.1	Siemens Immulite 2000/2500
	ng/ml	51.5	41.3	61.7	
	KIU/l = IU/ml	43.0	34.4	51.6	Siemens Immulite 1000
	ng/ml	52.0	41.6	62.4	
	KIU/l = IU/ml	41.3	33.0	49.6	Beckman Dxl800
	ng/ml	50.0	39.9	60.1	
	KIU/l = IU/ml	47.8	38.2	57.4	Roche Elecsys
	ng/ml	57.8	46.2	69.4	
	KIU/l = IU/ml	46.2	37.0	55.4	Diasorin Liaison
	ng/ml	55.9	44.8	67.0	
	KIU/l = IU/ml	43.9	35.1	52.7	Beckman Access
	ng/ml	53.1	42.5	63.7	
KIU/l = IU/ml	42.3	33.8	50.8	Tosoh Series	
ng/ml	51.2	40.9	61.5		
KIU/l = IU/ml	44.4	35.5	53.3	Vitros ECi	
ng/ml	46.2	37.0	55.4		
KIU/l = IU/ml	48.7	39.0	58.4	Roche Cobas 6000/8000	
ng/ml	58.9	47.2	70.6		
KIU/l = IU/ml	75.8	60.6	91.0	CIS IRMA	
ng/ml	91.7	73.3	110		
KIU/l = IU/ml	49.0	39.2	58.8	Roche Cobas E411	
ng/ml	59.3	47.4	71.2		
KIU/l = IU/ml	43.0	34.4	51.6	Fujirebio Lumipulse G Series	
ng/ml	52.0	41.6	62.4		
KIU/l = IU/ml	50.0	39.5	60.5	Siemens Centaur CP	
ng/ml	60.5	47.8	73.2		
KIU/l = IU/ml	46.8	37.4	56.2	Diasorin Liaison XL	
ng/ml	56.6	45.3	67.9		
Amikacin	µmol/l	14.8	11.8	17.8	Roche Cobas 6000/8000
	µg/ml	8.67	6.91	10.4	
Androstenedione	nmol/l	12.2	9.15	15.3	Siemens Immulite 2000
	ng/ml	3.50	2.63	4.37	
	nmol/l	7.08	5.31	8.85	Diasorin Liaison XL
	ng/ml	2.03	1.52	2.54	
Beta-2-microglobulin	µg/ml = mg/l	2.74	2.19	3.29	Abbott Architect
	µg/ml = mg/l	3.04	2.43	3.65	BioMerieux Vidas
	µg/ml = mg/l	2.77	2.22	3.32	Behring Nephelometer
	µg/ml = mg/l	2.54	2.03	3.05	Siemens Immulite 2000/2500

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Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	µg/ml = mg/l	2.79	2.23	3.35	Siemens Immulite 1000
	µg/ml = mg/l	2.36	1.89	2.83	Diasorin Liaison
	µg/ml = mg/l	2.76	2.21	3.31	Tosoh Series
	µg/ml = mg/l	2.86	2.29	3.43	Roche Cobas 6000/8000
	µg/ml = mg/l	2.18	1.74	2.62	Fujirebio Lumipulse G Series
C-Peptide	nmol/l	2.110	1.580	2.640	Siemens Immulite 2000/2500
	ng/ml	6.37	4.77	7.97	
	nmol/l	2.080	1.560	2.600	Roche Elecsys
	ng/ml	6.28	4.71	7.85	
	nmol/l	2.180	1.640	2.730	Roche Cobas 6000/8000
	ng/ml	6.58	4.95	8.21	
	nmol/l	2.050	1.540	2.560	Siemens Immulite 1000
	ng/ml	6.19	4.65	7.73	
	nmol/l	2.130	1.600	2.660	Diasorin Liaison
	ng/ml	6.43	4.83	8.03	
	nmol/l	2.200	1.650	2.750	Roche Cobas E411
	ng/ml	6.64	4.98	8.30	
	nmol/l	1.960	1.470	2.450	Abbott Architect
	ng/ml	5.92	4.44	7.40	
	nmol/l	1.560	1.170	1.950	Siemens Centaur XP/XPT/Classic
	ng/ml	4.71	3.53	5.89	
	nmol/l	1.930	1.450	2.410	Tosoh Series
	ng/ml	5.83	4.38	7.28	
nmol/l	2.270	1.700	2.840	Diasorin Liaison XL	
ng/ml	6.85	5.13	8.57		
nmol/l	1.530	1.150	1.910	Siemens Atellica IM	
ng/ml	4.62	3.47	5.77		
CA 15-3	U/ml	40.5	32.4	48.6	Abbott Architect
	U/ml	36.1	28.9	43.3	BioMerieux Vidas
	U/ml	38.5	26.2	50.8	Siemens Centaur XP/XPT/Classic
	U/ml	39.8	31.8	47.8	Siemens Immulite 2000/2500
	U/ml	49.9	39.9	59.9	Siemens Immulite 1000
	U/ml	18.4	14.7	22.1	Beckman Dxl800
	U/ml	39.2	31.4	47.0	Roche Elecsys
	U/ml	41.2	33.0	49.4	Diasorin Liaison
	U/ml	18.1	14.5	21.7	Beckman Access
	U/ml	36.5	29.2	43.8	Tosoh Series
	U/ml	36.5	29.2	43.8	Vitros ECi
	U/ml	40.2	32.2	48.2	Roche Cobas 6000/8000
	U/ml	40.1	32.1	48.1	Roche Cobas E411
	U/ml	47.8	38.2	57.4	Fujirebio Lumipulse G Series
	U/ml	38.6	26.2	51.0	Siemens Centaur CP
	U/ml	37.5	30.0	45.0	Diasorin Liaison XL
CA 19-9	U/ml	80.2	64.2	96.2	BioMerieux Vidas
	U/ml	100	68.0	132	Siemens Centaur XP/XPT/Classic
	U/ml	76.9	61.5	92.3	Siemens Immulite 2000/2500

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Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	76.7	61.4	92.0	Siemens Immulite 1000
	U/ml	70.8	56.6	85.0	Beckman DxI800
	U/ml	54.8	43.8	65.8	Roche Elecsys
	U/ml	78.2	62.6	93.8	Diasorin Liaison
	U/ml	82.2	65.8	98.6	Beckman Access
	U/ml	43.9	35.1	52.7	Tosoh Series
	U/ml	112	89.6	134	Vitros ECi
	U/ml	205	164	246	Abbott Architect XR/XR2 kit
	U/ml	54.4	43.5	65.3	Roche Cobas 6000/8000
	U/ml	56.0	44.8	67.2	Roche Cobas E411
	U/ml	97.1	77.7	117	Fujirebio Lumipulse G Series
	U/ml	98.1	66.7	130	Siemens Centaur CP
	U/ml	56.0	44.8	67.2	Mindray CL-2000i
	U/ml	87.1	69.7	105	Diasorin Liaison XL
CA125	U/ml	97.9	78.3	117	Abbott Architect
	U/ml	73.3	58.6	88.0	BioMerieux Vidas
	U/ml	82.2	55.9	109	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	83.3	56.6	110	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	79.9	63.9	95.9	Siemens Immulite 2000/2500
	U/ml	85.1	68.1	102	Siemens Immulite 1000
	U/ml	67.9	54.3	81.5	Beckman DxI800
	U/ml	71.9	57.5	86.3	Roche Elecsys
	U/ml	81.6	65.3	97.9	Diasorin Liaison
	U/ml	70.1	56.1	84.1	Beckman Access
	U/ml	125	100	150	Tosoh Series
	U/ml	72.0	57.6	86.4	Vitros ECi
	U/ml	72.9	58.3	87.5	Roche Cobas E411
	U/ml	71.8	57.4	86.2	Roche Cobas 6000/8000
	U/ml	70.5	56.4	84.6	Fujirebio Lumipulse G Series
	U/ml	87.2	59.3	115	Siemens Centaur CP CA125 II kit
U/ml	151	121	181	Mindray CL-2000i	
U/ml	89.3	71.4	107	Diasorin Liaison XL	
Carbamazepine	µmol/l	37.6	30.1	45.1	Abbott Architect
	µg/ml	8.89	7.12	10.7	
	µmol/l	40.8	28.6	53.0	Siemens Centaur XP/XPT/Classic
	µg/ml	9.65	6.76	12.5	
	µmol/l	36.0	28.8	43.2	Siemens Dimension
	µg/ml	8.51	6.81	10.2	
	µmol/l	33.8	27.0	40.6	Siemens Immulite 2000/2500
	µg/ml	7.99	6.38	9.60	
	µmol/l	34.5	27.6	41.4	Siemens Immulite 1000
	µg/ml	8.16	6.52	9.80	
	µmol/l	38.9	31.1	46.7	Roche Integra
	µg/ml	9.20	7.35	11.1	
µmol/l	36.5	29.2	43.8	Vitros	
µg/ml	8.63	6.90	10.4		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	36.2	29.0	43.4	Roche Cobas E411
	µg/ml	8.56	6.86	10.3	
	µmol/l	38.1	30.5	45.7	Roche Cobas 6000/8000
	µg/ml	9.01	7.21	10.8	
	µmol/l	36.7	29.4	44.0	Beckman DxC
	µg/ml	8.68	6.95	10.4	
Carcinoembryonic Antigen (CEA)	µmol/l	40.7	32.6	48.8	Beckman AU400/600/640/2700/5400
	µg/ml	9.62	7.71	11.5	
	ng/ml = µg/l	26.1	20.9	31.3	Abbott Architect
	ng/ml = µg/l	24.5	19.6	29.4	BioMerieux Vidas
	ng/ml = µg/l	25.9	17.6	34.2	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	18.1	14.5	21.7	CIS RIA Coated tube
	ng/ml = µg/l	32.3	25.8	38.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	30.9	24.7	37.1	Siemens Immulite 1000
	ng/ml = µg/l	23.3	18.6	28.0	Beckman Dxl800
	ng/ml = µg/l	22.8	18.2	27.4	Roche Elecsys
	ng/ml = µg/l	21.7	17.4	26.0	Diasorin Liaison
	ng/ml = µg/l	24.9	19.9	29.9	Beckman Access
	ng/ml = µg/l	28.5	22.8	34.2	Tosoh Series
	ng/ml = µg/l	25.8	20.6	31.0	Vitros ECi
	ng/ml = µg/l	22.1	17.7	26.5	Roche Cobas 6000/8000
	ng/ml = µg/l	22.4	17.9	26.9	Roche Cobas E411
	ng/ml = µg/l	29.1	23.3	34.9	Fujirebio Lumipulse G Series
	ng/ml = µg/l	25.8	17.5	34.1	Siemens Centaur CP
ng/ml = µg/l	18.9	15.1	22.7	Mindray CL-2000i	
ng/ml = µg/l	23.9	19.1	28.7	Diasorin Liaison XL	
Cortisol	nmol/l	526	395	658	Abbott Architect
	µg/dl	18.9	14.2	23.6	
	nmol/l	520	390	650	BioMerieux Vidas
	µg/dl	18.7	14.0	23.4	
	nmol/l	669	462	876	Siemens Centaur XP/XPT/Classic
	µg/dl	24.1	16.6	31.6	
	nmol/l	490	368	613	CIS RIA
	µg/dl	17.6	13.2	22.0	
	nmol/l	588	441	735	Siemens Immulite 2000/2500
	µg/dl	21.2	15.9	26.5	
	nmol/l	605	454	756	Siemens Immulite 1000
	µg/dl	21.8	16.3	27.3	
	nmol/l	558	419	698	Beckman Dxl800
	µg/dl	20.1	15.1	25.1	
	nmol/l	632	474	790	Roche Elecsys
	µg/dl	22.8	17.1	28.5	
	nmol/l	554	416	693	Diasorin Liaison
	µg/dl	19.9	15.0	24.8	
nmol/l	607	455	759	Beckman Access	
µg/dl	21.9	16.4	27.4		

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Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	656	492	820	Tosoh Series
	µg/dl	23.6	17.7	29.5	
	nmol/l	553	415	691	Vitros ECi
	µg/dl	19.9	14.9	24.9	
	nmol/l	617	463	771	Roche Cobas 6000/8000
	µg/dl	22.2	16.7	27.7	
	nmol/l	671	503	839	Roche Cobas E411
	µg/dl	24.2	18.1	30.3	
	nmol/l	666	460	872	Siemens Centaur CP
	µg/dl	24.0	16.6	31.4	
DHEA-S	nmol/l	653	490	816	Roche Cobas 4000/e411 Gen II
	µg/dl	23.5	17.6	29.4	
	nmol/l	603	452	754	Roche Cobas 6000/8000 Gen II
	µg/dl	21.7	16.3	27.1	
	nmol/l	635	476	794	Roche Elecsys Gen II
	µg/dl	22.9	17.1	28.7	
	µmol/l	13.9	11.1	16.7	Abbott Architect
	µmol/l	11.6	9.28	13.9	Siemens Immulite 2000/2500
	µmol/l	11.6	9.28	13.9	Siemens Immulite 1000
	µmol/l	11.5	9.20	13.8	Beckman DxI800
Digoxin	µmol/l	17.3	13.8	20.8	Roche Elecsys
	µmol/l	12.2	9.76	14.6	Beckman Access
	µmol/l	10.2	8.16	12.2	Diasorin Liaison
	µmol/l	11.5	7.48	15.5	Siemens Centaur XP/XPT/Classic
	µmol/l	16.9	13.5	20.3	Roche Cobas E411
	µmol/l	16.8	13.4	20.2	Roche Cobas 6000/8000
	µmol/l	15.5	12.4	18.6	Immunotech RIA
	µmol/l	11.1	8.88	13.3	Diasorin Liaison XL
	nmol/l	2.49	1.99	2.99	Abbott Architect
	ng/ml	1.94	1.55	2.33	
Digoxin	nmol/l	2.85	2.28	3.42	BioMerieux Vidas
	ng/ml	2.23	1.78	2.68	
	nmol/l	3.23	2.49	3.97	Siemens Centaur XP/XPT/Classic
	ng/ml	2.52	1.94	3.10	
	nmol/l	3.03	2.42	3.64	Siemens Dimension
	ng/ml	2.37	1.89	2.85	
	nmol/l	3.13	2.50	3.76	Siemens Immulite 2000/2500
	ng/ml	2.44	1.95	2.93	
	nmol/l	3.03	2.42	3.64	Beckman DxI800
	ng/ml	2.37	1.89	2.85	
	nmol/l	3.00	2.40	3.60	Roche Integra
	ng/ml	2.34	1.87	2.81	
	nmol/l	3.00	2.40	3.60	Beckman Access
	ng/ml	2.34	1.87	2.81	
nmol/l	2.88	2.30	3.46	Vitros	
ng/ml	2.25	1.80	2.70		

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Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	2.99	2.39	3.59	Roche Cobas 6000/8000
	ng/ml	2.34	1.87	2.81	
	nmol/l	3.16	2.53	3.79	Beckman AU400/600/640/2700/5400
	ng/ml	2.47	1.98	2.96	
	nmol/l	3.18	2.54	3.82	Roche Cobas 4000/E411
	ng/ml	2.48	1.98	2.98	
Ferritin	ng/ml = µg/l	103	82.4	124	Abbott Architect
	ng/ml = µg/l	74.2	59.4	89.0	BioMerieux Vidas
	ng/ml = µg/l	87.1	65.3	109	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	92.8	74.2	111	Siemens Dimension
	ng/ml = µg/l	85.4	68.3	102	Siemens Immulite 2000/2500
	ng/ml = µg/l	74.8	59.8	89.8	Siemens Immulite 1000
	ng/ml = µg/l	67.0	53.6	80.4	Beckman Dxl800
	ng/ml = µg/l	101	80.8	121	Roche Elecsys
	ng/ml = µg/l	90.2	72.2	108	Diasorin Liaison
	ng/ml = µg/l	100	80.0	120	Roche Modular E170
	ng/ml = µg/l	69.1	55.3	82.9	Beckman Access
	ng/ml = µg/l	64.3	51.4	77.2	Tosoh Series
	ng/ml = µg/l	61.8	49.4	74.2	Vitros ECi
	ng/ml = µg/l	80.2	64.2	96.2	Immunotech IRMA
	ng/ml = µg/l	104	83.2	125	Roche Cobas E411
	ng/ml = µg/l	79.4	63.5	95.3	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	56.6	45.3	67.9	Fujirebio Lumipulse G Series
ng/ml = µg/l	84.9	63.7	106	Siemens Centaur CP	
ng/ml = µg/l	97.1	77.7	117	Diasorin Liaison XL	
Folate	nmol/l	7.15	5.43	8.87	Abbott Architect
	ng/ml	3.15	2.39	3.91	
	nmol/l	11.9	7.74	16.1	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	5.25	3.41	7.09	
	nmol/l	6.30	4.79	7.81	Siemens Immulite 2000
	ng/ml	2.78	2.11	3.45	
	nmol/l	9.75	7.41	12.1	Beckman Dxl800
	ng/ml	4.30	3.27	5.33	
	nmol/l	9.37	7.12	11.6	Beckman Access
	ng/ml	4.13	3.14	5.12	
	nmol/l	15.3	11.6	19.0	Tosoh Series
	ng/ml	6.75	5.12	8.38	
	nmol/l	6.26	4.76	7.76	Vitros ECi
	ng/ml	2.76	2.10	3.42	
	nmol/l	7.83	5.95	9.71	MP Biomedicals RIA
ng/ml	3.45	2.62	4.28		
nmol/l	6.26	4.76	7.76	Siemens Dimension	
ng/ml	2.76	2.10	3.42		
Free T3	pmol/l	11.8	8.85	14.8	Abbott Architect
	ng/dl	0.767	0.575	0.959	
	pg/ml	7.68	5.76	9.60	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	12.7	9.53	15.9	BioMerieux Vidas
	ng/dl	0.826	0.619	1.03	
	pg/ml	8.27	6.20	10.3	
	pmol/l	12.9	7.74	18.1	Siemens Centaur XP/XPT/Classic
	ng/dl	0.839	0.503	1.18	
	pg/ml	8.40	5.04	11.8	
	pmol/l	10.0	7.50	12.5	Siemens Immulite 2000/2500
	ng/dl	0.650	0.488	0.812	
	pg/ml	6.51	4.88	8.14	
	pmol/l	9.52	7.14	11.9	Siemens Immulite 1000
	ng/dl	0.619	0.464	0.774	
	pg/ml	6.20	4.65	7.75	
	pmol/l	9.47	7.10	11.8	Beckman Dxl800
	ng/dl	0.616	0.462	0.770	
	pg/ml	6.16	4.62	7.70	
	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	16.6	12.5	20.8	Diasorin Liaison
	ng/dl	1.08	0.813	1.35	
	pg/ml	10.8	8.14	13.5	
	pmol/l	10.8	8.10	13.5	Beckman Access
	ng/dl	0.702	0.527	0.877	
	pg/ml	7.03	5.27	8.79	
pmol/l	16.2	12.2	20.3	Tosoh Series	
ng/dl	1.05	0.793	1.31		
pg/ml	10.5	7.94	13.1		
pmol/l	29.2	21.9	36.5	Vitros ECI	
ng/dl	1.90	1.42	2.38		
pg/ml	19.0	14.3	23.7		
pmol/l	15.2	11.4	19.0	Roche Cobas E411	
ng/dl	0.988	0.741	1.24		
pg/ml	9.90	7.42	12.4		
pmol/l	15.6	11.7	19.5	Roche Cobas 6000/8000	
ng/dl	1.01	0.761	1.26		
pg/ml	10.2	7.62	12.8		
pmol/l	12.5	7.50	17.5	Siemens Centaur CP	
ng/dl	0.813	0.488	1.14		
pg/ml	8.14	4.88	11.4		
pmol/l	12.8	9.60	16.0	Mindray CL-2000i	
ng/dl	0.832	0.624	1.04		
pg/ml	8.33	6.25	10.4		
pmol/l	16.9	12.7	21.1	Diasorin Liaison XL	
ng/dl	1.10	0.826	1.37		
pg/ml	11.0	8.27	13.7		
Free T4	pmol/l	20.4	15.3	25.5	Abbott Architect
	ng/dl	1.59	1.19	1.99	
	pg/ml	15.9	11.9	19.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	21.2	15.9	26.5	Siemens Centaur XP/XPT/Classic
	ng/dl	1.65	1.24	2.06	
	pg/ml	16.5	12.4	20.6	
	pmol/l	29.6	22.2	37.0	CIS RIA Coated tube
	ng/dl	2.31	1.73	2.89	
	pg/ml	23.1	17.3	28.9	
	pmol/l	29.0	21.8	36.3	Siemens Immulite 2000/2500
	ng/dl	2.26	1.70	2.82	
	pg/ml	22.6	17.0	28.2	
	pmol/l	29.8	22.4	37.3	Siemens Immulite 1000
	ng/dl	2.32	1.75	2.89	
	pg/ml	23.2	17.5	28.9	
	pmol/l	21.8	16.4	27.3	Beckman Dxl800
	ng/dl	1.70	1.28	2.12	
	pg/ml	17.0	12.8	21.2	
	pmol/l	27.4	20.6	34.3	Roche Elecsys
	ng/dl	2.14	1.61	2.67	
	pg/ml	21.4	16.1	26.7	
	pmol/l	31.8	23.9	39.8	Diasorin Liaison
	ng/dl	2.48	1.86	3.10	
	pg/ml	24.8	18.6	31.0	
	pmol/l	22.5	16.9	28.1	Beckman Access
	ng/dl	1.76	1.32	2.20	
	pg/ml	17.6	13.2	22.0	
	pmol/l	27.7	20.8	34.6	Tosoh Series
	ng/dl	2.16	1.62	2.70	
	pg/ml	21.6	16.2	27.0	
	pmol/l	56.6	42.5	70.8	Vitros ECi
	ng/dl	4.41	3.32	5.50	
	pg/ml	44.1	33.2	55.0	
pmol/l	27.2	20.4	34.0	Roche Cobas 6000/8000	
ng/dl	2.12	1.59	2.65		
pg/ml	21.2	15.9	26.5		
pmol/l	22.5	16.9	28.1	Immunotech IRMA	
ng/dl	1.76	1.32	2.20		
pg/ml	17.6	13.2	22.0		
pmol/l	27.4	20.6	34.3	Roche Cobas E411	
ng/dl	2.14	1.61	2.67		
pg/ml	21.4	16.1	26.7		
pmol/l	29.3	22.0	36.6	Biomerieux Vidas FT4N Kit	
ng/dl	2.29	1.72	2.86		
pg/ml	22.9	17.2	28.6		
pmol/l	21.8	16.4	27.3	Siemens Centaur CP	
ng/dl	1.70	1.28	2.12		
pg/ml	17.0	12.8	21.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	21.9	16.4	27.4	Mindray CL-2000i
	ng/dl	1.71	1.28	2.14	
	pg/ml	17.1	12.8	21.4	
	pmol/l	33.5	25.1	41.9	Diasorin Liaison XL
	ng/dl	2.61	1.96	3.26	
	pg/ml	26.1	19.6	32.6	
FSH	mU/ml	27.1	21.7	32.5	Abbott Architect
	mU/ml	34.1	27.3	40.9	BioMerieux Vidas
	mU/ml	37.5	28.1	46.9	Siemens Centaur XP/XPT/Classic
	mU/ml	30.1	24.1	36.1	Siemens Immulite 2000/2500
	mU/ml	30.1	24.1	36.1	Siemens Immulite 1000
	mU/ml	31.8	25.4	38.2	Beckman Dxl800
	mU/ml	29.5	23.6	35.4	Roche/BM Elecsys
	mU/ml	35.3	28.2	42.4	Diasorin Liaison
	mU/ml	31.1	24.9	37.3	Beckman Access
	mU/ml	29.9	23.9	35.9	Tosoh Series
	mU/ml	23.7	19.0	28.4	Vitros ECi
	mU/ml	30.1	24.1	36.1	Roche Cobas E411
	mU/ml	28.4	22.7	34.1	Roche Cobas 6000/8000
	mU/ml	25.3	20.2	30.4	Fujirebio Lumipulse G Series
	mU/ml	31.8	23.9	39.7	Siemens Centaur CP
mU/ml	43.3	34.6	52.0	Diasorin Liaison XL	
Gentamicin	µmol/l	6.91	5.53	8.29	Roche Cobas 6000/8000
	µg/ml	3.30	2.64	3.96	
Growth Hormone (GH)	µU/ml	18.6	14.9	22.3	Siemens Immulite 2000/2500
	ng/ml	6.19	4.96	7.42	
	µU/ml	17.2	13.8	20.6	Siemens Immulite 1000
	ng/ml	5.73	4.60	6.86	
	µU/ml	14.4	11.5	17.3	Beckman Dxl800
	ng/ml	4.80	3.83	5.77	
	µU/ml	15.3	12.2	18.4	Beckman Access
	ng/ml	5.09	4.06	6.12	
	µU/ml	17.7	14.2	21.2	Tosoh Series
	ng/ml	5.89	4.73	7.05	
	µU/ml	17.0	13.6	20.4	Roche Cobas E411
	ng/ml	5.66	4.53	6.79	
	µU/ml	16.6	13.3	19.9	Roche Cobas 6000/8000
	ng/ml	5.53	4.43	6.63	
	µU/ml	17.5	14.0	21.0	IDS iSYS
ng/ml	5.83	4.66	7.00		
µU/ml	15.9	12.7	19.1	Diasorin Liaison XL	
ng/ml	5.29	4.23	6.35		
Immunoglobulin E	KIU/l = IU/ml	96.2	77.0	115	Abbott Architect
	KIU/l = IU/ml	94.3	75.4	113	BioMerieux Vidas
	KIU/l = IU/ml	115	69.0	161	Siemens Centaur XP/XPT/Classic

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Immunoglobulin E	KIU/l = IU/ml	114	91.2	137	Siemens Immulite 2000/2500
	KIU/l = IU/ml	117	93.6	140	Siemens Immulite 1000
	KIU/l = IU/ml	123	98.4	148	Roche Elecsys
	KIU/l = IU/ml	115	92.0	138	Pharmacia Unicap
	KIU/l = IU/ml	106	84.8	127	Tosoh Series
	KIU/l = IU/ml	127	102	152	Roche Cobas E411
	KIU/l = IU/ml	125	100	150	Roche Cobas 6000/8000
	KIU/l = IU/ml	101	80.8	121	Fujirebio Lumipulse G Series
	KIU/l = IU/ml	100	60.0	140	Siemens Centaur CP
Insulin	mU/l	19.7	14.8	24.6	Siemens Centaur XP/XPT/Classic
	µU/ml	19.7	14.8	24.6	
	mU/l	18.7	14.0	23.4	Roche Elecsys
	µU/ml	18.7	14.0	23.4	
	mU/l	16.0	12.0	20.0	Beckman Access
	µU/ml	16.0	12.0	20.0	
	mU/l	16.7	12.5	20.9	Abbott Architect
	µU/ml	16.7	12.5	20.9	
	mU/l	19.9	14.9	24.9	Tosoh Series
	µU/ml	19.9	14.9	24.9	
	mU/l	18.9	14.2	23.6	Roche Cobas E411
	µU/ml	18.9	14.2	23.6	
	mU/l	15.2	11.4	19.0	Beckman Dxl 600/800
	µU/ml	15.2	11.4	19.0	
	mU/l	21.1	15.8	26.4	Diasorin Liaison
	µU/ml	21.1	15.8	26.4	
	mU/l	19.0	14.3	23.8	Roche Cobas 6000/8000
	µU/ml	19.0	14.3	23.7	
	mU/l	18.5	13.9	23.1	Fujirebio Lumipulse G Series
	µU/ml	18.5	13.9	23.1	
mU/l	19.3	14.5	24.1	Siemens Centaur CP	
µU/ml	19.3	14.5	24.1		
mU/l	19.3	14.5	24.1	Siemens Atellica IM	
µU/ml	19.3	14.5	24.1		
Luteinising Hormone (LH)	mU/ml	26.3	21.0	31.6	Abbott Architect
	mU/ml	30.7	24.6	36.8	BioMerieux Vidas
	mU/ml	31.5	24.3	38.7	Siemens Centaur XP/XPT/Classic
	mU/ml	46.7	37.4	56.0	Siemens Immulite 2000
	mU/ml	44.1	35.3	52.9	Siemens Immulite 1000
	mU/ml	24.9	19.9	29.9	Beckman Dxl800
	mU/ml	34.6	27.7	41.5	Roche Elecsys
	mU/ml	38.2	30.6	45.8	Diasorin Liaison
	mU/ml	25.7	20.6	30.8	Beckman Access
	mU/ml	28.8	23.0	34.6	Tosoh Series
	mU/ml	44.8	35.8	53.8	Vitros ECi
	mU/ml	34.8	27.8	41.8	Roche Cobas E411
	mU/ml	34.6	27.7	41.5	Roche Cobas 6000/8000

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Luteinising Hormone (LH)	mU/ml	30.3	24.2	36.4	Fujirebio Lumipulse G Series
	mU/ml	32.5	25.0	40.0	Siemens Centaur CP
	mU/ml	35.4	28.3	42.5	Mindray CL-2000i
	mU/ml	40.7	32.6	48.8	Diasorin Liaison XL
Oestradiol	pmol/l	917	734	1100	Abbott Architect
	pg/ml	249	200	298	
	pmol/l	1622	1298	1946	BioMerieux Vidas
	pg/ml	441	353	529	
	pmol/l	1353	812	1894	Siemens Centaur XP/XPT/Classic
	pg/ml	368	221	515	
	pmol/l	1424	1139	1709	Siemens Immulite 2000/2500
	pg/ml	387	310	464	
	pmol/l	1430	1144	1716	Siemens Immulite 1000
	pg/ml	389	311	467	
	pmol/l	1285	1028	1542	Beckman Dxl800
	pg/ml	350	280	420	
	pmol/l	999	799	1199	Roche Elecsys (Estradiol II)
	pg/ml	272	217	327	
	pmol/l	1336	1069	1603	Beckman Access
	pg/ml	363	291	435	
	pmol/l	1366	1093	1639	Vitros ECI
	pg/ml	372	297	447	
	pmol/l	1001	801	1201	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	272	218	326	
	pmol/l	1002	802	1202	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	273	218	328	
	pmol/l	1354	812	1896	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	368	221	515	
	pmol/l	1097	878	1316	Tosoh (iE2-hsE2)
	pg/ml	298	239	357	
	pmol/l	1455	873	2037	Siemens Centaur CP
	pg/ml	396	238	554	
pmol/l	1366	820	1912	Siemens Centaur CP Enhanced (eE2)	
pg/ml	372	223	521		
pmol/l	1218	974	1462	Fujirebio Lumipulse G Series	
pg/ml	331	265	397		
pmol/l	1002	802	1202	Roche Cobas 6000/8000 (Estradiol III)	
pg/ml	273	218	328		
pmol/l	1015	812	1218	Roche Elecsys (Estradiol III)	
pg/ml	276	221	331		
pmol/l	1003	802	1204	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	273	218	328		
pmol/l	1147	918	1376	Beckman Access / Access 2 Sensitive B84493	
pg/ml	312	250	374		
pmol/l	1079	863	1295	Beckman Dxl600/800 Sensitive B84493	
pg/ml	293	235	352		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Paracetamol	mmol/l	0.316	0.253	0.379	Roche Integra	
	mg/l	47.8	38.3	57.3		
	mmol/l	0.327	0.262	0.392	Abbott Architect	
	mg/l	49.5	39.6	59.4		
	mmol/l	0.330	0.264	0.396	Roche Cobas 6000/8000	
	mg/l	49.9	39.9	59.9		
	Phenobarbital	µmol/l	80.2	64.2	96.2	Abbott Architect
		µg/ml	18.6	14.9	22.3	
	µmol/l	79.4	63.5	95.3	Roche Cobas 6000/8000	
	µg/ml	18.4	14.7	22.1		
	µmol/l	78.8	63.0	94.6	Siemens Immulite 2000/2500	
	µg/ml	18.3	14.6	22.0		
	µmol/l	76.9	61.5	92.3	Beckman AU400/600/640/2700/5400	
	µg/ml	17.8	14.3	21.3		
	µmol/l	103	74.2	132	Siemens Centaur XP/XPT/Classic	
	µg/ml	23.9	17.2	30.6		
	µmol/l	77.1	61.7	92.5	Roche Integra	
	µg/ml	17.9	14.3	21.5		
	µmol/l	77.5	62.0	93.0	Siemens Immulite 1000	
	µg/ml	18.0	14.4	21.6		
	µmol/l	80.4	64.3	96.5	Beckman DxC	
	µg/ml	18.7	14.9	22.5		
Phenytoin	µmol/l	67.6	54.1	81.1	Abbott Architect	
	µg/ml	17.1	13.7	20.5		
	µmol/l	77.4	60.4	94.4	Siemens Centaur XP/XPT/Classic	
	µg/ml	19.5	15.2	23.8		
	µmol/l	74.4	59.5	89.3	Siemens Dimension	
	µg/ml	18.8	15.0	22.6		
	µmol/l	63.9	51.1	76.7	Siemens Immulite 2000/2500	
	µg/ml	16.1	12.9	19.3		
	µmol/l	62.6	50.1	75.1	Siemens Immulite 1000	
	µg/ml	15.8	12.7	18.9		
	µmol/l	65.9	52.7	79.1	Roche Integra	
	µg/ml	16.6	13.3	19.9		
	µmol/l	69.6	55.7	83.5	Vitros	
	µg/ml	17.6	14.1	21.1		
	µmol/l	68.6	54.9	82.3	Roche Cobas E411	
	µg/ml	17.3	13.9	20.7		
	µmol/l	68.1	54.5	81.7	Roche Cobas 6000/8000	
	µg/ml	17.2	13.8	20.6		
	µmol/l	65.4	52.3	78.5	Beckman DxC	
	µg/ml	16.5	13.2	19.8		
Progesterone	nmol/l	29.1	23.3	34.9	Abbott Architect	
	ng/ml	9.11	7.29	10.9		
	nmol/l	47.1	37.7	56.5	BioMerieux Vidas	
	ng/ml	14.7	11.8	17.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	25.7	18.0	33.4	Siemens Centaur XP/XPT/Classic
	ng/ml	8.04	5.63	10.5	
	nmol/l	26.1	20.9	31.3	Siemens Immulite 2000/2500
	ng/ml	8.17	6.54	9.80	
	nmol/l	31.5	25.2	37.8	Siemens Immulite 1000
	ng/ml	9.86	7.89	11.8	
	nmol/l	36.3	29.0	43.6	Beckman Dxl Prog Cal 33555
	ng/ml	11.4	9.08	13.7	
	nmol/l	37.7	30.2	45.2	Roche Elecsys (Prog. II)
	ng/ml	11.8	9.45	14.2	
	nmol/l	37.9	30.3	45.5	Beckman Access Prog Cal 33555
	ng/ml	11.9	9.48	14.3	
	nmol/l	42.9	34.3	51.5	Tosoh Series
	ng/ml	13.4	10.7	16.1	
	nmol/l	37.8	30.2	45.4	Vitros ECi
	ng/ml	11.8	9.45	14.2	
	nmol/l	37.1	29.7	44.5	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	11.6	9.30	13.9	
	nmol/l	38.3	30.6	46.0	Roche Cobas 6000/8000 (Prog. II)
	ng/ml	12.0	9.58	14.4	
	nmol/l	32.3	25.8	38.8	Diasorin Liaison
	ng/ml	10.1	8.08	12.1	
	nmol/l	31.7	25.4	38.0	Beckman Dxl Prog DE Cal A80773
	ng/ml	9.92	7.95	11.9	
nmol/l	32.7	26.2	39.2	Beckman Access Prog DE Cal A80773	
ng/ml	10.2	8.20	12.2		
nmol/l	27.4	19.2	35.6	Siemens Centaur CP	
ng/ml	8.58	6.01	11.2		
nmol/l	35.0	28.0	42.0	Mindray CL-2000i	
ng/ml	11.0	8.76	13.2		
nmol/l	41.4	33.1	49.7	Fujirebio Lumipulse G Series	
ng/ml	13.0	10.4	15.6		
nmol/l	37.8	30.2	45.4	Roche Cobas 6000/8000 (Prog. III)	
ng/ml	11.8	9.45	14.2		
nmol/l	38.3	30.6	46.0	Roche Elecsys (Prog. III)	
ng/ml	12.0	9.58	14.4		
nmol/l	37.1	29.7	44.5	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	11.6	9.30	13.9		
Prolactin	µU/ml	552	442	662	Abbott Architect
	µU/ml	643	514	772	BioMerieux Vidas
	µU/ml	445	347	543	Siemens Centaur XP/XPT/Classic
	µU/ml	449	359	539	Siemens Immulite 2000/2500
	µU/ml	490	392	588	Siemens Immulite 1000
	µU/ml	441	353	529	Beckman Dxl800
	µU/ml	529	423	635	Roche Elecsys
	µU/ml	569	455	683	Diasorin Liaison

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	446	357	535	Beckman Access
	µU/ml	521	417	625	Tosoh Series
	µU/ml	481	385	577	Vitros ECi
	µU/ml	529	423	635	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	529	423	635	Immunotech IRMA
	µU/ml	547	438	656	Roche Cobas E411
	µU/ml	525	420	630	Roche Cobas 6000/8000
	µU/ml	633	506	760	Fujirebio Lumipulse G Series
	µU/ml	435	339	531	Siemens Centaur CP
	µU/ml	635	508	762	Mindray CL-2000i
PSA Free	ng/ml = µg/l	11.9	8.93	14.9	Abbott Architect
	ng/ml = µg/l	8.65	6.49	10.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	9.18	6.89	11.5	Siemens Immulite 2000/2500
	ng/ml = µg/l	8.51	6.38	10.6	Siemens Immulite 1000
	ng/ml = µg/l	10.5	7.88	13.1	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	7.14	5.36	8.93	Roche Elecsys
	ng/ml = µg/l	5.74	4.31	7.18	Diasorin Liaison
	ng/ml = µg/l	11.1	8.33	13.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	6.03	4.52	7.54	Tosoh Series
	ng/ml = µg/l	7.19	5.39	8.99	Roche Cobas E411
	ng/ml = µg/l	7.15	5.36	8.94	Roche Cobas 6000/8000
	ng/ml = µg/l	8.95	6.71	11.2	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	11.0	8.25	13.8	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	3.67	2.75	4.59	Ortho Vitros 3600/5600/ECi PSA II
ng/ml = µg/l	7.68	5.76	9.60	Fujirebio Lumipulse G Series	
ng/ml = µg/l	5.64	4.23	7.05	Diasorin Liaison XL	
PSA Total	ng/ml = µg/l	11.5	8.63	14.4	Abbott Architect
	ng/ml = µg/l	13.2	9.90	16.5	BioMerieux Vidas
	ng/ml = µg/l	12.4	9.30	15.5	bioMerieux VIDAS TPSA
	ng/ml = µg/l	12.1	9.08	15.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	5.55	4.16	6.94	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	5.34	4.01	6.68	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	5.37	4.03	6.71	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	5.80	4.35	7.25	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	16.2	12.2	20.3	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	12.5	9.38	15.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	15.3	11.5	19.1	Roche Elecsys
	ng/ml = µg/l	7.49	5.62	9.36	Diasorin Liaison
	ng/ml = µg/l	16.5	12.4	20.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	16.4	12.3	20.5	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	9.25	6.94	11.6	Tosoh Series
	ng/ml = µg/l	15.2	11.4	19.0	Vitros ECi
	ng/ml = µg/l	15.3	11.5	19.1	CIS RIA Coated tube
	ng/ml = µg/l	15.4	11.6	19.3	Roche Cobas E411
ng/ml = µg/l	15.2	11.4	19.0	Roche Cobas 6000/8000	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	10.4	7.80	13.0	Fujirebio Lumipulse G Series
	ng/ml = µg/l	15.4	11.6	19.3	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	12.1	9.08	15.1	Siemens Centaur CP
	ng/ml = µg/l	7.14	5.36	8.93	Diasorin Liaison XL
Salicylic Acid	mmol/l	1.19	0.952	1.43	Abbott Architect
	mg/dl	16.4	13.1	19.7	
	mmol/l	1.29	1.03	1.55	Beckman DxC
	mg/dl	17.8	14.2	21.4	
SHBG	nmol/l	47.8	38.2	57.4	Siemens Immulite 2000/2500
	nmol/l	47.8	38.2	57.4	Roche Elecsys
	nmol/l	47.9	38.3	57.5	Abbott Architect
	nmol/l	50.3	40.2	60.4	Roche Cobas E411
	nmol/l	49.1	39.3	58.9	Roche Cobas 6000/8000
	nmol/l	46.6	37.3	55.9	Beckman DxI800
Testosterone	nmol/l	13.1	10.5	15.7	Abbott Architect
	ng/ml	3.77	3.02	4.52	
	ng/dl	377	302	452	
	nmol/l	9.80	7.84	11.8	BioMerieux Vidas
	ng/ml	2.82	2.26	3.38	
	ng/dl	282	226	338	
	nmol/l	13.7	9.59	17.8	Siemens Centaur XP/XPT/Classic
	ng/ml	3.95	2.77	5.13	
	ng/dl	395	277	513	
	nmol/l	15.2	12.2	18.2	Siemens Immulite 2000/2500
	ng/ml	4.38	3.51	5.25	
	ng/dl	438	351	525	
	nmol/l	11.5	9.20	13.8	Beckman DxI800
	ng/ml	3.31	2.65	3.97	
	ng/dl	331	265	397	
	nmol/l	12.7	10.2	15.2	Beckman Access
	ng/ml	3.66	2.94	4.38	
	ng/dl	366	294	438	
	nmol/l	16.5	13.2	19.8	Tosoh Series
	ng/ml	4.75	3.80	5.70	
ng/dl	475	380	570		
nmol/l	16.7	13.4	20.0	Vitros ECi	
ng/ml	4.81	3.86	5.76		
ng/dl	481	386	576		
nmol/l	14.3	11.4	17.2	Roche Cobas 6000 Test 2	
ng/ml	4.12	3.28	4.96		
ng/dl	412	328	496		
nmol/l	13.7	11.0	16.4	Roche Elecsys Test II	
ng/ml	3.95	3.17	4.73		
ng/dl	395	317	473		
nmol/l	14.0	11.2	16.8	Roche Cobas 4000/e411 Test II	
ng/ml	4.03	3.23	4.83		
ng/dl	403	323	483		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	12.9	10.3	15.5	Abbott Architect 2nd Generation
	ng/ml	3.72	2.97	4.47	
	ng/dl	372	297	447	
	nmol/l	12.5	8.75	16.3	Siemens Centaur CP
	ng/ml	3.60	2.52	4.68	
	ng/dl	360	252	468	
	nmol/l	9.38	7.50	11.3	BioMerieux Vidas Testosterone II
	ng/ml	2.70	2.16	3.24	
	ng/dl	270	216	324	
	nmol/l	18.1	14.5	21.7	Mindray CL-2000i
	ng/ml	5.21	4.18	6.24	
	ng/dl	521	418	624	
	nmol/l	13.8	9.66	17.9	Siemens Centaur TST II
	ng/ml	3.97	2.78	5.16	
	ng/dl	397	278	516	
nmol/l	6.21	4.97	7.45	Diasorin Liaison XL	
ng/ml	1.79	1.43	2.15		
ng/dl	179	143	215		
Theophylline	µmol/l	85.5	68.4	103	Roche Integra
	µg/ml	15.4	12.3	18.5	
	µmol/l	75.6	60.5	90.7	Abbott Architect
	µg/ml	13.6	10.9	16.3	
	µmol/l	78.9	63.1	94.7	Roche Cobas 6000/8000
	µg/ml	14.2	11.4	17.0	
	µmol/l	79.6	63.7	95.5	Beckman DxC
	µg/ml	14.3	11.5	17.1	
	µmol/l	75.9	60.7	91.1	Beckman AU400/600/640/2700/5400
	µg/ml	13.7	10.9	16.5	
Thyroglobulin	ng/ml	11.5	8.63	14.4	Siemens Immulite 1000
	ng/ml	13.6	10.2	17.0	Siemens Immulite 2000
	ng/ml	34.4	25.8	43.0	Roche Elecsys
	ng/ml	28.0	21.0	35.0	Beckman Dxl800
	ng/ml	36.0	27.0	45.0	Roche Cobas E411
	ng/ml	36.4	27.3	45.5	Roche Cobas 6000/8000
	ng/ml	29.4	22.1	36.8	Beckman Access
	ng/ml	38.2	28.7	47.8	Abbott Architect 2000i
	ng/ml	33.4	25.1	41.8	Tosoh Series
	ng/ml	35.3	26.5	44.1	Roche Cobas 6000 TGII
	ng/ml	35.5	26.6	44.4	Roche Elecsys TGII
	ng/ml	36.1	27.1	45.1	Roche Cobas 4000/E411 TGII
	ng/ml	11.2	8.40	14.0	Diasorin Liaison XL
Thyroid Stimulating Hormone	µU/ml = mIU/l	1.96	1.57	2.35	Abbott Architect
	µU/ml = mIU/l	2.32	1.86	2.78	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.19	1.75	2.63	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.35	1.60	3.10	Siemens Centaur XP/XPT/Classic

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.74	2.19	3.29	CIS IRMA
	µU/ml = mIU/l	2.30	1.56	3.04	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.32	1.86	2.78	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.28	1.82	2.74	Siemens Immulite 1000
	µU/ml = mIU/l	2.05	1.64	2.46	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.09	1.67	2.51	Beckman Dxl800
	µU/ml = mIU/l	2.43	1.94	2.92	Roche Elecsys
	µU/ml = mIU/l	2.71	2.17	3.25	Diasorin Liaison
	µU/ml = mIU/l	2.09	1.67	2.51	Beckman Access Fast TSH
	µU/ml = mIU/l	2.15	1.72	2.58	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.30	1.84	2.76	Tosoh Series
	µU/ml = mIU/l	2.58	2.06	3.10	Vitros ECi
	µU/ml = mIU/l	2.45	1.96	2.94	Roche Cobas E411
	µU/ml = mIU/l	2.45	1.96	2.94	Roche Cobas 6000/8000
	µU/ml = mIU/l	2.10	1.68	2.52	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.07	1.66	2.48	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.27	1.54	3.00	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.22	1.51	2.93	Siemens Centaur CP
	µU/ml = mIU/l	2.15	1.46	2.84	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	2.81	2.25	3.37	Mindray CL-2000i
µU/ml = mIU/l	2.09	1.67	2.51	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	3.03	2.42	3.64	Diasorin Liaison XL	
Total Beta hCG	mU/ml=IU/l	13.2	10.6	15.8	Abbott Architect
	IU/ml	0.013	0.011	0.015	
	mU/ml=IU/l	28.4	22.7	34.1	BioMerieux Vidas
	IU/ml	0.028	0.023	0.033	
	mU/ml=IU/l	14.7	8.82	20.6	Siemens Centaur XP/XPT/Classic
	IU/ml	0.015	0.009	0.021	
	mU/ml=IU/l	35.7	28.6	42.8	Siemens Dimension
	IU/ml	0.036	0.029	0.043	
	mU/ml=IU/l	49.0	39.2	58.8	Siemens Immulite 2000
	IU/ml	0.049	0.039	0.059	
	mU/ml=IU/l	44.0	35.2	52.8	Siemens Immulite 1000
	IU/ml	0.044	0.035	0.053	
	mU/ml=IU/l	15.1	12.1	18.1	Beckman Dxl800
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	12.4	9.92	14.9	Diasorin Liaison
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	19.3	15.4	23.2	Roche Cobas Core EIA
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	14.7	11.8	17.6	Beckman Access
	IU/ml	0.015	0.012	0.018	
mU/ml=IU/l	31.4	25.1	37.7	Tosoh Series	
IU/ml	0.031	0.025	0.037		
mU/ml=IU/l	34.0	27.2	40.8	Vitros ECi	
IU/ml	0.034	0.027	0.041		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	15.5	12.4	18.6	Roche STAT (Intact)
	IU/ml	0.016	0.012	0.020	
	mU/ml=IU/l	19.1	15.3	22.9	Roche hCG+Beta
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	12.1	9.68	14.5	Fujirebio Lumipulse G Series
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	13.5	10.8	16.2	Radiometer AQT90 Flex
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	15.0	12.0	18.0	Beckman Access Total BhCG (5th IS)
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	15.1	12.1	18.1	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	15.0	9.00	21.0	Siemens Centaur CP
	IU/ml	0.015	0.009	0.021	
mU/ml=IU/l	13.1	10.5	15.7	Diasorin Liaison XL	
IU/ml	0.013	0.011	0.015		
Total T3	nmol/l	3.43	2.57	4.29	Abbott Architect
	ng/ml	2.23	1.67	2.79	
	ng/dl	223	167	279	
	nmol/l	4.07	3.05	5.09	BioMerieux Vidas
	ng/ml	2.65	1.99	3.31	
	ng/dl	265	199	331	
	nmol/l	4.39	3.29	5.49	Siemens Centaur XP/XPT/Classic
	ng/ml	2.86	2.14	3.58	
	ng/dl	286	214	358	
	nmol/l	3.87	2.90	4.84	Siemens Immulite 2000/2500
	ng/ml	2.52	1.89	3.15	
	ng/dl	252	189	315	
	nmol/l	3.75	2.81	4.69	Siemens Immulite 1000
	ng/ml	2.44	1.83	3.05	
	ng/dl	244	183	305	
	nmol/l	3.62	2.72	4.53	Beckman Dxl800
	ng/ml	2.36	1.77	2.95	
	ng/dl	236	177	295	
	nmol/l	4.49	3.37	5.61	Roche Elecsys
	ng/ml	2.92	2.19	3.65	
	ng/dl	292	219	365	
	nmol/l	3.69	2.77	4.61	Beckman Access
	ng/ml	2.40	1.80	3.00	
	ng/dl	240	180	300	
nmol/l	3.91	2.93	4.89	Tosoh Series	
ng/ml	2.55	1.91	3.19		
ng/dl	255	191	319		
nmol/l	4.31	3.23	5.39	Vitros ECI	
ng/ml	2.81	2.10	3.52		
ng/dl	281	210	352		

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Total T3	nmol/l	2.77	2.08	3.46	CIS RIA Coated tube	
	ng/ml	1.80	1.35	2.25		
	ng/dl	180	135	225		
	nmol/l	4.34	3.26	5.43	Roche Cobas E411	
		ng/ml	2.83	2.12		3.54
		ng/dl	283	212		354
	nmol/l	4.19	3.14	5.24	Roche Cobas 6000/8000	
		ng/ml	2.73	2.04		3.42
		ng/dl	273	204		342
	nmol/l	4.33	3.25	5.41	Siemens Centaur CP	
		ng/ml	2.82	2.12		3.52
		ng/dl	282	212		352
nmol/l	2.99	2.24	3.74	Diasorin Liaison XL		
	ng/ml	1.95	1.46		2.44	
	ng/dl	195	146		244	
Total T4	nmol/l	102	76.5	128	Abbott Architect	
	µg/dl	7.96	5.97	9.95		
	ng/ml	79.6	59.7	100		
	nmol/l	123	92.3	154	BioMerieux Vidas	
		µg/dl	9.59	7.20		12.0
		ng/ml	95.9	72.0		120
	nmol/l	105	68.3	142	Siemens Centaur XP/XPT/Classic	
		µg/dl	8.19	5.32		11.1
		ng/ml	81.9	53.2		111
	nmol/l	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	106	79.5	133	Siemens Immulite 1000	
		µg/dl	8.27	6.20		10.3
		ng/ml	82.7	62.0		103
	nmol/l	107	80.3	134	Beckman DxI800	
		µg/dl	8.35	6.26		10.4
		ng/ml	83.5	62.6		104
	nmol/l	101	75.8	126	Roche Elecsys	
		µg/dl	7.88	5.91		9.85
		ng/ml	78.8	59.1		98.5
	nmol/l	113	84.8	141	Beckman Access	
		µg/dl	8.81	6.61		11.0
		ng/ml	88.1	66.1		110
nmol/l	98.3	73.7	123	Tosoh Series		
	µg/dl	7.67	5.75		9.59	
	ng/ml	76.7	57.5		95.9	
nmol/l	108	81.0	135	Vitros ECi		
	µg/dl	8.42	6.32		10.5	
	ng/ml	84.2	63.2		105	
nmol/l	110	82.5	138	CIS RIA Coated tube		
	µg/dl	8.58	6.44		10.7	
	ng/ml	85.8	64.4		107	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	106	79.5	133	Roche Cobas E411
	µg/dl	8.27	6.20	10.3	
	ng/ml	82.7	62.0	103	
	nmol/l	106	79.5	133	Roche Cobas 6000/8000
	µg/dl	8.27	6.20	10.3	
	ng/ml	82.7	62.0	103	
	nmol/l	88.0	66.0	110	Immunotech IRMA
	µg/dl	6.86	5.15	8.57	
	ng/ml	68.6	51.5	85.7	
	nmol/l	111	72.2	150	Siemens Centaur CP
	µg/dl	8.66	5.63	11.7	
	ng/ml	86.6	56.3	117	
	nmol/l	79.6	59.7	100	Diasorin Liaison XL
	µg/dl	6.21	4.66	7.76	
ng/ml	62.1	46.6	77.6		
Valproic Acid	µmol/l	523	418	628	Abbott Architect
	µg/ml	75.5	60.3	90.7	
	µmol/l	561	449	673	Siemens Centaur XP/XPT/Classic
	µg/ml	81.0	64.8	97.2	
	µmol/l	526	421	631	Siemens Dimension
	µg/ml	75.9	60.8	91.0	
	µmol/l	550	440	660	Siemens Immulite 2000/2500
	µg/ml	79.4	63.5	95.3	
	µmol/l	555	444	666	Siemens Immulite 1000
	µg/ml	80.1	64.1	96.1	
	µmol/l	536	429	643	Roche Integra
	µg/ml	77.3	61.9	92.7	
	µmol/l	602	482	722	Vitros
	µg/ml	86.9	69.6	104	
	µmol/l	557	446	668	Roche Cobas E411
	µg/ml	80.4	64.4	96.4	
	µmol/l	554	443	665	Roche Cobas 6000/8000
	µg/ml	79.9	63.9	95.9	
µmol/l	526	421	631	Beckman DxC	
µg/ml	75.9	60.8	91.0		
µmol/l	564	451	677	Beckman AU400/600/640/2700/5400	
µg/ml	81.4	65.1	97.7		
Vancomycin	µmol/l	7.52	6.02	9.02	Roche Integra
	µg/ml	11.2	8.94	13.5	
	µmol/l	6.14	4.91	7.37	Ortho Vitros Microslide Systems
	µg/ml	9.12	7.29	11.0	
	µmol/l	7.39	5.91	8.87	Abbott Architect
	µg/ml	11.0	8.78	13.2	
	µmol/l	5.69	4.44	6.94	Siemens Centaur XP/XPT/Classic
	µg/ml	8.45	6.59	10.3	

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 1939EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Vancomycin	µmol/l	6.77	5.42	8.12	Siemens Dimension	
	µg/ml	10.1	8.05	12.2		
	µmol/l	6.55	5.24	7.86	Roche Cobas 6000/8000	
	µg/ml	9.73	7.79	11.7		
	µmol/l	6.29	5.03	7.55	Beckman DxC	
	µg/ml	9.35	7.47	11.2		
	µmol/l	6.17	4.94	7.40	Thermo Scientific QMS Vancomycin	
	µg/ml	9.17	7.34	11.0		
	Vitamin B12	pmol/l	419	335	503	Abbott Architect
		pg/ml	568	454	682	
pmol/l		469	352	586	Siemens Centaur XP/XPT/Classic	
pg/ml		635	476	794		
pmol/l		417	334	500	Siemens Immulite 2000	
pg/ml		565	453	677		
pmol/l		356	285	427	Beckman Dxl800	
pg/ml		482	386	578		
pmol/l		439	351	527	Roche Elecsys	
pg/ml		595	476	714		
pmol/l		373	298	448	Beckman Access	
pg/ml		505	404	606		
pmol/l		561	449	673	Tosoh Series	
pg/ml		760	608	912		
pmol/l		437	350	524	Vitros ECi	
pg/ml		592	474	710		
pmol/l		507	406	608	MP Biomedicals RIA	
pg/ml		687	550	824		
pmol/l	424	339	509	Siemens Dimension		
pg/ml	575	459	691			
pmol/l	540	405	675	Siemens Centaur CP		
pg/ml	732	549	915			

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL 2
(IA PREMIUM PLUS 2)**

**Cat No. IA3110 / IA3112
Lot No. I939EC**

SIEMENS ATELICA

ANALYTE	UNITS	TARGET	RANGE	
			LOW	HIGH
25-OH Vitamin D	nmol/l	69.9	52.4	87.4
Alpha-fetoprotein	KIU/l = IU/ml	48.2	38.6	57.8
	ng/ml	58.3	46.6	70.0
C-Peptide	nmol/l	1.53	1.15	1.91
	ng/ml	4.62	3.47	5.77
CA125	U/ml	97.4	77.9	117
CA 15-3	U/ml	41.3	33.0	49.6
CA 19-9	U/ml	110	88.0	132
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	24.7	19.8	29.6
Cortisol	nmol/l	694	521	867
	µg/dl	25.0	18.8	31.2
DHEA-S	µmol/l	11.8	9.44	14.2
Digoxin	nmol/l	3.48	2.78	4.18
	ng/ml	2.72	2.18	3.26
Ferritin	ng/ml = µg/l	87.2	69.8	105
Folate	nmol/l	12.5	9.50	15.5
	ng/ml	5.51	4.19	6.83
Free T3	pmol/l	12.9	9.68	16.1
	ng/dl	0.839	0.629	1.05
	pg/ml	8.39	6.29	10.5
Free T4	pmol/l	21.6	16.2	27.0
	ng/dl	1.68	1.26	2.10
	pg/ml	16.8	12.6	21.0
FSH	mU/ml	38.4	30.7	46.1
Immunoglobulin E	KIU/l = IU/ml	107	85.6	128
Insulin	µU/ml	19.3	14.5	24.1
Luteinising Hormone (LH)	mU/ml	32.2	25.8	38.6
Oestradiol	pmol/l	1387	1110	1664
	pg/ml	377	302	452

SIEMENS ATELLICA

ANALYTE	UNITS	TARGET	RANGE	
			LOW	HIGH
Progesterone	nmol/l	28.1	22.5	33.7
	ng/ml	8.80	7.04	10.6
Prolactin	μU/ml	462	370	554
PSA Free	ng/ml	8.76	6.57	11.0
PSA Total	ng/ml	12.7	9.53	15.9
SHBG	nmol/l	50.0	40.0	60.0
Testosterone	nmol/l	12.9	10.3	15.5
	ng/ml	3.72	2.98	4.46
	ng/dl	372	298	446
Thyroid Stimulating Hormone	μU/ml = mIU/l	2.22	1.78	2.66
Total Beta hCG	mU/ml=IU/l	14.7	11.8	17.6
	IU/ml	0.015	0.012	0.018
Total T3	nmol/l	4.22	3.17	5.27
	ng/ml	2.75	2.06	3.44
	ng/dl	275	206	344
Total T4	nmol/l	107	80.3	134
	μg/dl	8.35	6.26	10.4
	ng/ml	83.5	62.6	104
Vitamin B12	pmol/l	497	398	596
	pg/ml	673	538	808

16 Feb 21 pl

ADDITIONAL VALUES FOR 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. 1939EC **EXPIRY:** 2022-12-28

Analyte	Unit	Target	Low	High	Method
Alpha-fetoprotein	KIU/l=IU/ml	46.6	32.6	60.6	Snibe Maglumi
	ng/ml	56.4	39.4	73.3	
Androstenedione	nmol/l	9.93	6.97	12.9	Snibe Maglumi
	ng/ml	2.85	2.00	3.71	
Beta-2-microglobulin	µg/ml=mg/l	2.25	1.58	2.93	Snibe Maglumi
C-Peptide	nmol/l	2.28	1.60	2.96	Snibe Maglumi
	ng/ml	6.88	4.82	8.94	
CA 19-9	U/ml	50.8	35.6	66.0	Snibe Maglumi
CA125	U/ml	93.6	65.5	122	Snibe Maglumi
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	24.6	17.2	32.0	Snibe Maglumi
Cortisol	nmol/l	647	453	842	Snibe Maglumi
	µg/dl	23.3	16.3	30.3	
DHEA-S	nmol/l	14.0	9.82	18.2	Snibe Maglumi
	µg/dl	517	362	672	
Digoxin	nmol/l	3.42	2.39	4.44	Snibe Maglumi
	ng/ml	2.67	1.87	3.47	
Ferritin	ng/ml=µg/l	113	79.1	147	Snibe Maglumi
Free T3	pmol/l	14.7	10.3	19.0	Snibe Maglumi
	ng/dl	0.957	0.670	1.24	
	pg/ml	9.57	6.70	12.4	
Free T4	pmol/l	31.0	21.7	40.4	Snibe Maglumi
	ng/dl	2.42	1.69	3.15	
	pg/ml	24.2	16.9	31.5	
FSH	mU/ml	33.3	23.3	43.3	Snibe Maglumi
GH	µU/ml	23.9	16.8	31.2	Snibe Maglumi
	ng/ml	7.97	5.58	10.4	
Immunoglobulin E	KIU/l=IU/ml	103	72.1	134	Snibe Maglumi
Insulin	mU/l	19.5	13.7	25.4	Snibe Maglumi
	µU/ml	19.5	13.7	25.4	
Luteinising Hormone (LH)	mU/ml	42.8	30.0	55.6	Snibe Maglumi
Prolactin	µU/ml	484	339	629	Snibe Maglumi
PSA Free	ng/ml=µg/l	7.01	4.91	9.11	Snibe Maglumi
PSA Total	ng/ml=µg/l	13.0	9.10	16.9	Snibe Maglumi
Testosterone	nmol/l	14.0	9.76	18.2	Snibe Maglumi
	ng/ml	4.02	2.81	5.23	
	ng/dl	402	281	523	
Thyroid Stimulating Hormone	µU/ml=mIU/l	2.60	1.82	3.38	Snibe Maglumi
Total Beta hCG	mU/ml=IU/l	40.1	28.1	52.1	Snibe Maglumi
	IU/ml	0.040	0.028	0.052	
Total T3	nmol/l	3.27	2.29	4.25	Snibe Maglumi
	ng/ml	2.13	1.49	2.77	
	ng/dl	213	149	277	
Total T4	nmol/l	125	87.6	163	Snibe Maglumi
	µg/dl	9.75	6.83	12.7	
	ng/ml	97.5	68.3	127	
Vitamin B12	pmol/l	375	263	487	Snibe Maglumi
	pg/ml	508	356	660	

EC **REP** Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

02 Jun 21 pl

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL 2
(IA PREMIUM PLUS 2)
Cat No. IA3110 / IA3112
Lot No. I939EC**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Folate	nmol/l	8.24	6.26 - 10.2	Roche Folate III - 07559992
	ng/ml	3.63	2.76 - 4.50	
	nmol/l	8.38	6.37 - 10.4	Roche Folate III - 07027290 e801
	ng/ml	3.70	2.81 - 4.59	
Vitamin B12	pmol/l	440	352 - 528	Roche Cobas 4000 / e411 Gen II
	pg/ml	596	477 - 715	
	pmol/l	464	371 - 557	Roche Cobas e801 Gen II
	pg/ml	629	503 - 755	

EC REP

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

05 Feb 21 pl

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

Cat. No. IA3110 / IA3112 Lot No. 1939EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Alpha-fetoprotein 甲胚蛋白	ng/ml	50.97	37.21	64.73	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	54.20	39.57	68.84	Mindray CL-900i
CA 15-3	U/ml	20.42	12.25	28.58	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	21.57	12.94	30.20	Mindray CL-900i
CA 19-9	U/ml	42.39	27.55	57.22	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	40.70	26.45	54.94	Mindray CL-900i
CA125	U/ml	148.23	88.94	207.52	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	134.36	80.62	188.10	Mindray CL-900i
Carcinoembryonic Antigen (CEA) 癌胚抗原	ng/ml = µg/l	18.85	13.76	23.94	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	18.91	13.81	24.02	Mindray CL-900i
DHEA-S 去表雄酮硫酸盐	µg/dl	590.57	383.87	797.27	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dl	646.46	420.20	872.72	Mindray CL-900i
Ferritin 铁蛋白	ng/ml = µg/l	92.19	64.53	119.84	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	97.32	68.12	126.51	Mindray CL-900i
Folate 叶酸	ng/ml	9.56	6.21	12.90	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	9.84	6.40	13.29	Mindray CL-900i
Free T3 游离 T3	pg/ml	8.16	5.71	10.60	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	pg/ml	8.49	5.94	11.04	Mindray CL-900i
Free T4 游离 T4	ng/dl	1.88	1.37	2.39	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/dl	2.12	1.55	2.70	Mindray CL-900i
FSH 卵泡刺激素	mIU/ml	36.50	26.65	46.36	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mIU/ml	37.31	27.24	47.39	Mindray CL-900i
Insulin 胰岛素	mIU/ml	18.23	11.85	24.61	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mIU/ml	18.57	12.07	25.07	Mindray CL-900i
Progesterone 孕酮	ng/ml	13.33	8.67	18.00	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	12.25	7.97	16.54	Mindray CL-900i
Prolactin 催乳激素	ng/ml	29.67	20.77	38.58	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	30.77	21.54	40.00	Mindray CL-900i
PSA Free 游离 PSA	ng/ml = µg/l	9.84	7.19	12.50	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	10.60	7.74	13.47	Mindray CL-900i
PSA Total 总 PSA	ng/ml = µg/l	13.87	9.02	18.73	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	16.20	10.53	21.87	Mindray CL-900i
Testosterone 睾酮	ng/ml	5.64	3.83	7.44	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	5.48	3.73	7.23	Mindray CL-900i
Thyroglobulin 甲状腺球蛋白	ng/ml	10.27	6.98	13.56	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	11.16	7.59	14.73	Mindray CL-900i
Thyroid Stimulating Hormone 促甲状腺激素	µU/ml = mIU/l	2.80	1.82	3.78	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µU/ml = mIU/l	3.01	1.96	4.07	Mindray CL-900i
Total Beta hCG 总β人体绒毛膜促性腺激素	mU/ml=IU/l	15.26	9.15	21.36	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mU/ml=IU/l	12.93	7.76	18.10	Mindray CL-900i
Total Estriol 总雌三醇	ng/ml	2.51	1.63	3.38	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	2.20	1.43	2.97	Mindray CL-900i
Total T3 总 T3	ng/ml	2.13	1.49	2.77	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	2.10	1.47	2.73	Mindray CL-900i
Total T4 总 T4	µg/dl	9.20	6.44	11.96	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dl	8.59	6.01	11.16	Mindray CL-900i
E2 雌二醇	pg/ml	322.31	219.17	425.44	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	pg/ml	362.53	246.52	478.55	Mindray CL-900i
Total Beta hCG-II 总β人体绒毛膜促性腺激素 II	mU/ml=IU/l	10.23	6.65	13.80	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mU/ml=IU/l	10.54	6.85	14.22	Mindray CL-900i
Cortisol 皮质醇	µg/dL	19.02	12.36	25.68	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dL	18.26	11.87	24.65	Mindray CL-900i