

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

CAT. NO. IA3109	GTIN: 05055273207255	SIZE: 12 x 5ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5ml
LOT NO. 1862EC	EXPIRY: 2021-11-28	

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. 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 5ml 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 I: 12 x 5ml Tri-Level: 4 x 5ml

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.

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IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	2.34	1.76	2.93	Immunotech RIA
	ng/ml	0.775	0.583	0.967	
	nmol/l	2.97	2.23	3.71	DRG ELISA
	ng/ml	0.983	0.738	1.23	
	nmol/l	3.45	2.59	4.31	
ng/ml	1.14	0.857	1.42	SNIBE Maglumi Analysers	
25-OH Vitamin D	nmol/l	38.3	28.7	47.9	Diasorin Liaison
	nmol/l	27.8	20.9	34.8	Siemens Centaur XP/XPT/Classic
	nmol/l	18.1	13.6	22.6	Roche Vitamin D Total
	nmol/l	20.8	15.6	26.0	ELISA
	nmol/l	22.2	16.7	27.8	Abbott Architect
	nmol/l	20.8	15.6	26.0	IDS iSYS
	nmol/l	35.9	26.9	44.9	SNIBE Maglumi Analysers
	nmol/l	96.4	72.3	121	Vitros ECi
	nmol/l	22.8	17.1	28.5	Tosoh Series
	nmol/l	22.5	16.9	28.1	BioMerieux Vidas
	nmol/l	39.8	29.9	49.8	Beckman Dxl 600/800
	nmol/l	43.7	32.8	54.7	Beckman Access 25 OH Vitamin D Total
	nmol/l	20.3	15.2	25.4	Roche Vitamin D Total II
ACTH	pmol/l	1.12	0.840	1.40	Siemens Immulite 2000/2500
	pg/ml	5.09	3.82	6.36	
	pmol/l	2.20	1.65	2.75	Siemens Immulite 1000
	pg/ml	10.0	7.50	12.5	
Aldosterone	pmol/l	13.9	10.4	17.4	SNIBE Maglumi Analysers
	pg/ml	5.02	3.75	6.29	
	pmol/l	371	278	464	IDS iSYS
Alpha-fetoprotein	KIU/l = IU/ml	9.79	7.83	11.7	Abbott Architect
	ng/ml	11.8	9.47	14.1	
	KIU/l = IU/ml	10.9	8.72	13.1	BioMerieux Vidas
	ng/ml	13.2	10.6	15.8	
	KIU/l = IU/ml	11.4	9.01	13.8	Siemens Centaur XP/XPT/Classic
	ng/ml	13.8	10.9	16.7	
	KIU/l = IU/ml	9.92	7.94	11.9	Siemens Immulite 2000/2500
	ng/ml	12.0	9.61	14.4	
	KIU/l = IU/ml	10.7	8.56	12.8	Siemens Immulite 1000
	ng/ml	12.9	10.4	15.4	
	KIU/l = IU/ml	9.84	7.87	11.8	Beckman Dxl800
	ng/ml	11.9	9.52	14.3	
	KIU/l = IU/ml	10.7	8.56	12.8	Roche Elecsys
	ng/ml	12.9	10.4	15.4	
KIU/l = IU/ml	11.9	9.52	14.3	Diasorin Liaison	
ng/ml	14.4	11.5	17.3		

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Analyte	unit	Target	Range		methods
			low	high	
Alpha-fetoprotein	KIU/l = IU/ml	9.89	7.91	11.9	Beckman Access
	ng/ml	12.0	9.57	14.4	
	KIU/l = IU/ml	10.4	8.32	12.5	Tosoh Series
	ng/ml	12.6	10.1	15.1	
	KIU/l = IU/ml	10.7	8.56	12.8	Vitros ECI
	ng/ml	11.1	8.88	13.3	
	KIU/l = IU/ml	11.0	8.80	13.2	Roche Cobas 6000/8000
	ng/ml	13.3	10.6	16.0	
	KIU/l = IU/ml	17.9	14.3	21.5	CIS IRMA
	ng/ml	21.7	17.3	26.1	
	KIU/l = IU/ml	10.9	8.72	13.1	Roche Cobas E411
	ng/ml	13.2	10.6	15.8	
KIU/l = IU/ml	10.4	8.32	12.5	SNIBE Maglumi Analysers	
ng/ml	12.6	10.1	15.1		
KIU/l = IU/ml	10.7	8.45	13.0	Siemens Centaur CP	
ng/ml	12.9	10.2	15.6		
KIU/l = IU/ml	11.1	8.85	13.3	Siemens Atellica IM	
ng/ml	13.4	10.7	16.1		
Amikacin	µmol/l	6.66	5.33	7.99	Roche Integra
	µg/ml	3.90	3.12	4.68	
	µmol/l	6.39	5.11	7.67	Roche Cobas 6000/8000
	µg/ml	3.74	2.99	4.49	
µmol/l	6.40	5.12	7.68	Gravimetric	
µg/ml	3.75	3.00	4.50		
Androstenedione	nmol/l	4.85	3.64	6.06	Siemens Immulite 2000
	ng/ml	1.39	1.04	1.74	
	nmol/l	2.38	1.79	2.98	DiaMetra ELISA
ng/ml	0.683	0.514	0.852		
Beta-2-microglobulin	µg/ml = mg/l	1.03	0.824	1.24	Abbott Architect
	µg/ml = mg/l	1.03	0.824	1.24	BioMerieux Vidas
	µg/ml = mg/l	1.01	0.808	1.21	Behring Nephelometer
	µg/ml = mg/l	1.03	0.824	1.24	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.25	1.00	1.50	Siemens Immulite 1000
	µg/ml = mg/l	0.900	0.720	1.08	Tosoh Series
	µg/ml = mg/l	1.15	0.920	1.38	Roche Cobas 6000/8000
C-Peptide	nmol/l	0.210	0.158	0.263	Siemens Immulite 2000/2500
	ng/ml	0.634	0.477	0.791	
	nmol/l	0.360	0.270	0.450	Roche Cobas 6000/8000
	ng/ml	1.09	0.815	1.37	
	nmol/l	0.120	0.090	0.150	Diasorin Liaison
	ng/ml	0.362	0.272	0.452	
	nmol/l	0.330	0.248	0.413	Roche Cobas E411
	ng/ml	0.996	0.749	1.24	
nmol/l	0.280	0.210	0.350	Abbott Architect	
ng/ml	0.845	0.634	1.06		

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Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	0.199	0.139	0.259	Siemens Centaur XP/XPT/Classic
	ng/ml	0.601	0.421	0.781	
	nmol/l	0.230	0.173	0.288	Tosoh Series
	ng/ml	0.694	0.522	0.866	
CA 15-3	nmol/l	0.440	0.330	0.550	SNIBE Maglumi Analysers
	ng/ml	1.33	0.996	1.66	
	U/ml	24.7	19.8	29.6	Abbott Architect
	U/ml	20.3	16.2	24.4	BioMerieux Vidas
	U/ml	23.0	15.2	30.8	Siemens Centaur XP/XPT/Classic
	U/ml	22.9	18.3	27.5	Siemens Immulite 2000/2500
	U/ml	26.0	20.8	31.2	Siemens Immulite 1000
	U/ml	9.51	7.61	11.4	Beckman Dxl800
	U/ml	20.6	16.5	24.7	Roche Elecsys
	U/ml	25.2	20.2	30.2	Diasorin Liaison
	U/ml	9.67	7.74	11.6	Beckman Access
	U/ml	22.7	18.2	27.3	Tosoh Series
	U/ml	19.7	15.8	23.6	Vitros ECI
	U/ml	20.9	16.7	25.1	Roche Cobas 6000/8000
	U/ml	20.8	16.6	25.0	Roche Cobas E411
	U/ml	17.4	13.9	20.9	SNIBE Maglumi Analysers
U/ml	24.4	16.1	32.7	Siemens Centaur CP	
U/ml	25.6	20.5	30.7	Siemens Atellica IM	
CA 19-9	U/ml	47.0	37.6	56.4	BioMerieux Vidas
	U/ml	83.3	55.0	112	Siemens Centaur XP/XPT/Classic
	U/ml	24.8	19.8	29.8	Siemens Immulite 2000/2500
	U/ml	26.6	21.3	31.9	Siemens Immulite 1000
	U/ml	28.7	23.0	34.4	Beckman Dxl800
	U/ml	20.2	16.2	24.2	Roche Elecsys
	U/ml	46.5	37.2	55.8	Diasorin Liaison
	U/ml	21.4	17.1	25.7	Roche Modular E170
	U/ml	30.8	24.6	37.0	Beckman Access
	U/ml	17.3	13.8	20.8	Tosoh Series
	U/ml	49.8	39.8	59.8	Vitros ECI
	U/ml	230	184	276	Abbott Architect XR/XR2 kit
	U/ml	19.9	15.9	23.9	Roche Cobas 6000/8000
	U/ml	20.0	16.0	24.0	Roche Cobas E411
	U/ml	15.3	12.2	18.4	SNIBE Maglumi Analysers
	U/ml	87.5	57.8	117	Siemens Centaur CP
U/ml	76.5	61.2	91.7	Siemens Atellica IM	
CA125	U/ml	29.9	23.9	35.9	Abbott Architect
	U/ml	20.7	16.6	24.8	BioMerieux Vidas
	U/ml	21.6	14.3	28.9	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	21.6	14.3	28.9	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	19.1	15.3	22.9	Siemens Immulite 2000/2500
	U/ml	19.0	15.2	22.8	Siemens Immulite 1000
	U/ml	17.5	14.0	21.0	Beckman Dxl800

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Analyte	unit	Target	Range		methods
			low	high	
CA125	U/ml	20.9	16.7	25.1	Roche Elecsys
	U/ml	22.3	17.8	26.8	Diasorin Liaison
	U/ml	20.9	16.7	25.1	Roche Modular E170
	U/ml	17.3	13.8	20.8	Beckman Access
	U/ml	37.2	29.8	44.6	Tosoh Series
	U/ml	18.3	14.6	22.0	Vitros ECi
	U/ml	21.9	17.5	26.3	Roche Cobas E411
	U/ml	21.1	16.9	25.3	Roche Cobas 6000/8000
	U/ml	33.8	27.0	40.6	SNIBE Maglumi Analysers
	U/ml	19.1	15.3	22.9	Fujirebio Lumipulse G Series
	U/ml	23.2	15.3	31.1	Siemens Centaur CP CA125 II kit
	U/ml	39.9	31.9	47.9	Mindray CL-2000i
	U/ml	27.8	22.2	33.3	Siemens Atellica IM
Carbamazepine	µmol/l	15.8	12.6	19.0	Abbott Architect
	µg/ml	3.74	2.98	4.50	
	µmol/l	18.7	13.5	23.9	Siemens Centaur XP/XPT/Classic
	µg/ml	4.42	3.18	5.66	
	µmol/l	14.3	11.4	17.2	Siemens Dimension
	µg/ml	3.38	2.69	4.07	
	µmol/l	12.9	10.3	15.5	Siemens Immulite 2000/2500
	µg/ml	3.05	2.43	3.67	
	µmol/l	13.9	11.1	16.7	Siemens Immulite 1000
	µg/ml	3.29	2.62	3.96	
	µmol/l	15.3	12.2	18.4	Roche Integra
	µg/ml	3.62	2.88	4.36	
	µmol/l	13.8	11.0	16.6	Roche Cobas E411
	µg/ml	3.26	2.60	3.92	
	µmol/l	14.2	11.4	17.0	Roche Cobas 6000/8000
	µg/ml	3.36	2.69	4.03	
	µmol/l	14.2	11.4	17.0	Beckman DxC
	µg/ml	3.36	2.69	4.03	
	µmol/l	16.7	13.4	20.0	Beckman AU400/600/640/2700/5400
	µg/ml	3.95	3.17	4.73	
µmol/l	15.8	12.6	19.0	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	3.74	2.98	4.50		
µmol/l	15.4	12.3	18.4	Gravimetric	
µg/ml	3.63	2.91	4.35		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	4.16	3.33	4.99	Abbott Architect
	ng/ml = µg/l	3.28	2.62	3.94	BioMerieux Vidas
	ng/ml = µg/l	3.71	2.45	4.97	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	3.59	2.87	4.31	CIS RIA Coated tube
	ng/ml = µg/l	4.34	3.47	5.21	Siemens Immulite 2000/2500
	ng/ml = µg/l	4.79	3.83	5.75	Siemens Immulite 1000
	ng/ml = µg/l	3.53	2.82	4.24	Beckman Dxl800
	ng/ml = µg/l	3.81	3.05	4.57	Roche Elecsys
ng/ml = µg/l	3.86	3.09	4.63	Diasorin Liaison	

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Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	3.92	3.14	4.70	Roche Modular E170
	ng/ml = µg/l	3.54	2.83	4.25	Beckman Access
	ng/ml = µg/l	5.34	4.27	6.41	Tosoh Series
	ng/ml = µg/l	4.03	3.22	4.84	Vitros ECi
	ng/ml = µg/l	3.76	3.01	4.51	Roche Cobas 6000/8000
	ng/ml = µg/l	3.79	3.03	4.55	Roche Cobas E411
	ng/ml = µg/l	5.68	4.54	6.82	SNIBE Maglumi Analysers
	ng/ml = µg/l	5.08	4.06	6.10	Fujirebio Lumipulse G Series
	ng/ml = µg/l	3.80	2.51	5.09	Siemens Centaur CP
	ng/ml = µg/l	2.96	2.37	3.55	Mindray CL-2000i
	ng/ml = µg/l	3.75	3.00	4.50	Siemens Atellica IM
Cortisol	nmol/l	225	169	281	Abbott Architect
	µg/dl	8.10	6.08	10.1	
	nmol/l	131	98.3	164	BioMerieux Vidas
	µg/dl	4.72	3.54	5.90	
	nmol/l	206	136	276	Siemens Centaur XP/XPT/Classic
	µg/dl	7.42	4.90	9.94	
	nmol/l	199	149	249	CIS RIA
	µg/dl	7.16	5.36	8.96	
	nmol/l	204	153	255	Siemens Immulite 2000/2500
	µg/dl	7.34	5.51	9.17	
	nmol/l	204	153	255	Siemens Immulite 1000
	µg/dl	7.34	5.51	9.17	
	nmol/l	210	158	263	Beckman Dxl800
	µg/dl	7.56	5.69	9.43	
	nmol/l	197	148	246	Roche Elecsys
	µg/dl	7.09	5.33	8.85	
	nmol/l	257	193	321	Diasorin Liaison
	µg/dl	9.25	6.95	11.6	
	nmol/l	193	145	241	Roche Modular E170
	µg/dl	6.95	5.22	8.68	
	nmol/l	214	161	268	Beckman Access
	µg/dl	7.70	5.80	9.60	
	nmol/l	195	146	244	Tosoh Series
	µg/dl	7.02	5.26	8.78	
	nmol/l	153	115	191	Vitros ECi
	µg/dl	5.51	4.14	6.88	
	nmol/l	195	146	244	Roche Cobas 6000/8000
	µg/dl	7.02	5.26	8.78	
nmol/l	208	156	260	Roche Cobas E411	
µg/dl	7.49	5.62	9.36		
nmol/l	295	221	369	SNIBE Maglumi Analysers	
µg/dl	10.6	7.96	13.2		
nmol/l	247	163	331	Siemens Centaur CP	
µg/dl	8.89	5.87	11.9		
nmol/l	211	158	264	Roche Cobas 4000/e411 Gen II	
µg/dl	7.60	5.69	9.51		

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Analyte	unit	Target	Range		methods	
			low	high		
Cortisol	nmol/l	190	143	238	Roche Cobas 6000/8000 Gen II	
	µg/dl	6.84	5.15	8.53		
	nmol/l	204	153	255	Roche Elecsys Gen II	
	µg/dl	7.34	5.51	9.17		
	nmol/l	221	165	276	Siemens Atellica IM	
	µg/dl	7.94	5.94	9.94		
	DHEA-S	µmol/l	2.24	1.79	2.69	Abbott Architect
		µmol/l	1.71	1.37	2.05	Siemens Immulite 2000/2500
µmol/l		1.72	1.38	2.06	Siemens Immulite 1000	
µmol/l		2.03	1.62	2.44	Beckman Dxl800	
µmol/l		3.02	2.42	3.62	Roche Elecsys	
µmol/l		2.11	1.69	2.53	Beckman Access	
µmol/l		2.03	1.32	2.74	Siemens Centaur XP/XPT/Classic	
µmol/l		2.82	2.26	3.38	Roche Cobas E411	
µmol/l		2.72	2.18	3.26	Roche Cobas 6000/8000	
µmol/l	1.99	1.59	2.39	SNIBE Maglumi Analysers		
Digoxin	nmol/l	0.640	0.512	0.768	Abbott Architect	
	ng/ml	0.500	0.400	0.600		
	nmol/l	0.670	0.536	0.804	BioMerieux Vidas	
	ng/ml	0.523	0.419	0.627		
	nmol/l	1.04	0.780	1.30	Siemens Centaur XP/XPT/Classic	
	ng/ml	0.810	0.609	1.02		
	nmol/l	0.790	0.632	0.948	Siemens Dimension	
	ng/ml	0.617	0.494	0.740		
	nmol/l	0.690	0.552	0.828	Siemens Immulite 2000/2500	
	ng/ml	0.539	0.431	0.647		
	nmol/l	0.860	0.688	1.03	Beckman Dxl800	
	ng/ml	0.672	0.537	0.807		
	nmol/l	1.00	0.800	1.20	Roche Elecsys	
	ng/ml	0.781	0.625	0.937		
	nmol/l	0.850	0.680	1.02	Roche Integra	
	ng/ml	0.664	0.531	0.797		
	nmol/l	0.910	0.728	1.09	Roche Cobas 6000/8000	
	ng/ml	0.711	0.569	0.853		
	nmol/l	0.990	0.792	1.19	Beckman AU400/600/640/2700/5400	
ng/ml	0.773	0.619	0.927			
nmol/l	1.02	0.816	1.22	Roche Cobas 4000/E411		
ng/ml	0.797	0.637	0.957			
nmol/l	0.896	0.720	1.08	Gravimetric		
ng/ml	0.700	0.560	0.840			
Ethosuximide	µmol/l	226	181	271	Gravimetric	
	µg/ml	32.0	25.7	38.4		
Ferritin	ng/ml = µg/l	16.1	12.9	19.3	Abbott Architect	
	ng/ml = µg/l	13.7	11.0	16.4	BioMerieux Vidas	
	ng/ml = µg/l	13.3	10.6	16.0	Roche Tinaquant	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	13.6	10.2	17.0	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	14.7	11.8	17.6	Siemens Dimension
	ng/ml = µg/l	13.6	10.9	16.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	14.5	11.6	17.4	Siemens Immulite 1000
	ng/ml = µg/l	10.7	8.56	12.8	Beckman DxI800
	ng/ml = µg/l	16.2	13.0	19.4	Roche Elecsys
	ng/ml = µg/l	15.2	12.2	18.2	Diasorin Liaison
	ng/ml = µg/l	15.8	12.6	19.0	Roche Modular E170
	ng/ml = µg/l	10.6	8.48	12.7	Beckman Access
	ng/ml = µg/l	10.5	8.40	12.6	Tosoh Series
	ng/ml = µg/l	11.8	9.44	14.2	Vitros Eci
	ng/ml = µg/l	12.4	9.92	14.9	Immunotech IRMA
	ng/ml = µg/l	16.8	13.4	20.2	Roche Cobas E411
	ng/ml = µg/l	14.7	11.8	17.6	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	12.4	9.30	15.5	Siemens Centaur CP
ng/ml = µg/l	12.3	9.86	14.8	Siemens Atellica IM	
Folate	nmol/l	4.13	3.14	5.12	Abbott Architect
	ng/ml	1.82	1.38	2.26	
	nmol/l	8.97	4.93	13.0	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	3.96	2.18	5.74	
	nmol/l	3.08	2.34	3.82	Siemens Immulite 2000
	ng/ml	1.36	1.03	1.69	
	nmol/l	3.71	2.82	4.60	Beckman DxI800
	ng/ml	1.64	1.24	2.04	
	nmol/l	4.14	3.15	5.13	Beckman Access
	ng/ml	1.83	1.39	2.27	
	nmol/l	3.57	2.71	4.43	Vitros Eci
	ng/ml	1.57	1.20	1.94	
	nmol/l	3.20	2.43	3.97	Roche Cobas E411
	ng/ml	1.41	1.07	1.75	
	nmol/l	3.26	2.48	4.04	Roche Cobas 6000/8000
ng/ml	1.44	1.09	1.79		
nmol/l	3.38	2.57	4.19	Roche Cobas 6000/8000 Folate III	
ng/ml	1.49	1.13	1.85		
nmol/l	2.97	2.26	3.68	Roche Cobas 4000/e411 Folate III	
ng/ml	1.31	0.997	1.62		
Free T3	pmol/l	2.92	2.19	3.65	Abbott Architect
	ng/dl	0.190	0.142	0.238	
	pg/ml	1.90	1.43	2.37	
	pmol/l	2.66	2.00	3.33	BioMerieux Vidas
	ng/dl	0.173	0.130	0.216	
	pg/ml	1.73	1.30	2.16	
	pmol/l	3.60	2.16	5.04	Siemens Centaur XP/XPT/Classic
	ng/dl	0.234	0.140	0.328	
	pg/ml	2.34	1.40	3.28	
	pmol/l	2.91	2.18	3.64	Siemens Immulite 2000/2500
ng/dl	0.189	0.142	0.236		
pg/ml	1.89	1.42	2.36		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	2.86	2.15	3.58	Siemens Immulite 1000
	ng/dl	0.186	0.140	0.232	
	pg/ml	1.86	1.40	2.32	
	pmol/l	3.58	2.69	4.48	Beckman Dxl800
	ng/dl	0.233	0.175	0.291	
	pg/ml	2.33	1.75	2.91	
	pmol/l	4.14	3.11	5.18	Roche Elecsys
	ng/dl	0.269	0.202	0.336	
	pg/ml	2.70	2.02	3.38	
	pmol/l	2.88	2.16	3.60	Diasorin Liaison
	ng/dl	0.187	0.140	0.234	
	pg/ml	1.87	1.41	2.33	
	pmol/l	4.01	3.01	5.01	Roche Modular E170
	ng/dl	0.261	0.196	0.326	
	pg/ml	2.61	1.96	3.26	
	pmol/l	3.46	2.60	4.33	Beckman Access
	ng/dl	0.225	0.169	0.281	
	pg/ml	2.25	1.69	2.81	
	pmol/l	6.40	4.80	8.00	Vitros Eci
	ng/dl	0.416	0.312	0.520	
	pg/ml	4.17	3.12	5.22	
	pmol/l	4.22	3.17	5.28	Roche Cobas E411
	ng/dl	0.274	0.206	0.342	
	pg/ml	2.75	2.06	3.44	
pmol/l	3.92	2.94	4.90	Roche Cobas 6000/8000	
ng/dl	0.255	0.191	0.319		
pg/ml	2.55	1.91	3.19		
pmol/l	2.31	1.73	2.89	SNIBE Maglumi Analysers	
ng/dl	0.150	0.112	0.188		
pg/ml	1.50	1.13	1.87		
pmol/l	3.79	2.27	5.31	Siemens Centaur CP	
ng/dl	0.246	0.148	0.344		
pg/ml	2.46	1.48	3.44		
pmol/l	3.35	2.51	4.19	Mindray CL-2000i	
ng/dl	0.218	0.163	0.273		
pg/ml	2.18	1.63	2.73		
pmol/l	3.90	2.93	4.88	Siemens Atellica IM	
ng/dl	0.250	0.190	0.320		
pg/ml	2.54	1.91	3.18		
Free T4	pmol/l	9.55	7.16	11.9	Abbott AXSYM
	ng/dl	0.745	0.558	0.932	
	pg/ml	7.45	5.58	9.32	
	pmol/l	9.22	6.92	11.5	Abbott Architect
	ng/dl	0.719	0.540	0.898	
pg/ml	7.19	5.40	8.98		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	8.20	6.15	10.3	Siemens Centaur XP/XPT/Classic
	ng/dl	0.640	0.480	0.800	
	pg/ml	6.40	4.80	8.00	
	pmol/l	10.3	7.73	12.9	CIS RIA Coated tube
	ng/dl	0.803	0.603	1.00	
	pg/ml	8.03	6.03	10.0	
	pmol/l	12.5	9.38	15.6	Siemens Immulite 2000/2500
	ng/dl	0.975	0.732	1.22	
	pg/ml	9.75	7.32	12.2	
	pmol/l	12.3	9.23	15.4	Siemens Immulite 1000
	ng/dl	0.959	0.720	1.20	
	pg/ml	9.59	7.20	12.0	
	pmol/l	9.47	7.10	11.8	Beckman Dxl800
	ng/dl	0.739	0.554	0.924	
	pg/ml	7.39	5.54	9.24	
	pmol/l	12.9	9.68	16.1	Roche Elecsys
	ng/dl	1.01	0.755	1.27	
	pg/ml	10.1	7.55	12.7	
	pmol/l	10.8	8.10	13.5	Diasorin Liaison
	ng/dl	0.842	0.632	1.05	
	pg/ml	8.42	6.32	10.5	
	pmol/l	9.41	7.06	11.8	Beckman Access
	ng/dl	0.734	0.551	0.917	
	pg/ml	7.34	5.51	9.17	
	pmol/l	9.68	7.26	12.1	Tosoh Series
	ng/dl	0.755	0.566	0.944	
	pg/ml	7.55	5.66	9.44	
	pmol/l	16.2	12.2	20.3	Vitros ECi
	ng/dl	1.26	0.952	1.57	
	pg/ml	12.6	9.52	15.7	
pmol/l	12.3	9.23	15.4	Roche Cobas 6000/8000	
ng/dl	0.959	0.720	1.20		
pg/ml	9.59	7.20	12.0		
pmol/l	10.8	8.10	13.5	Immunotech IRMA	
ng/dl	0.842	0.632	1.05		
pg/ml	8.42	6.32	10.5		
pmol/l	13.2	9.90	16.5	Roche Cobas E411	
ng/dl	1.03	0.772	1.29		
pg/ml	10.3	7.72	12.9		
pmol/l	10.3	7.73	12.9	SNIBE Maglumi Analysers	
ng/dl	0.803	0.603	1.00		
pg/ml	8.03	6.03	10.0		
pmol/l	9.65	7.24	12.1	Biomerieux Vidas FT4N Kit	
ng/dl	0.753	0.565	0.941		
pg/ml	7.53	5.65	9.41		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Free T4	pmol/l	8.81	6.61	11.0	Siemens Centaur CP	
	ng/dl	0.687	0.515	0.859		
	pg/ml	6.87	5.15	8.59		
	Mindray CL-2000i	pmol/l	8.46	7.19	9.73	
		ng/dl	0.660	0.560	0.760	
		pg/ml	6.60	5.61	7.59	
	Siemens Atellica IM	pmol/l	9.78	7.34	12.2	
		ng/dl	0.760	0.570	0.950	
		pg/ml	7.63	5.73	9.52	
FSH		mU/ml	5.27	4.22	6.32	Abbott Architect
		mU/ml	6.50	5.20	7.80	BioMerieux Vidas
		mU/ml	7.53	5.27	9.79	Siemens Centaur XP/XPT/Classic
	mU/ml	6.05	4.84	7.26	Siemens Immulite 2000/2500	
	mU/ml	6.29	5.03	7.55	Siemens Immulite 1000	
	mU/ml	6.46	5.17	7.75	Beckman DxI800	
	mU/ml	5.99	4.79	7.19	Roche/BM Elecsys	
	mU/ml	7.64	6.11	9.17	Diasorin Liaison	
	mU/ml	5.80	4.64	6.96	Roche Modular E170	
	mU/ml	6.20	4.96	7.44	Beckman Access	
	mU/ml	6.68	5.34	8.02	Tosoh Series	
	mU/ml	4.90	3.92	5.88	Vitros ECi	
	mU/ml	6.02	4.82	7.22	Roche Cobas E411	
	mU/ml	5.67	4.54	6.80	Roche Cobas 6000/8000	
	mU/ml	6.73	5.38	8.08	SNIBE Maglumi Analysers	
	Siemens Centaur CP	mU/ml	5.42	3.79	7.05	
mU/ml		6.88	5.50	8.26		
Gentamicin		µmol/l	4.64	3.71	5.57	Roche Integra
		µg/ml	2.22	1.77	2.67	
Siemens Dimension Vista		µmol/l	4.20	3.36	5.04	
		µg/ml	2.01	1.61	2.41	
Roche Cobas 6000/8000		µmol/l	3.41	2.73	4.09	
		µg/ml	1.63	1.30	1.96	
Beckman DxC	µmol/l	5.17	4.14	6.20		
	µg/ml	2.47	1.98	2.96		
Gravimetric	µmol/l	4.85	3.88	5.82		
	µg/ml	2.32	1.85	2.78		
Growth Hormone (GH)	µU/ml	3.51	2.81	4.21	CIS IRMA	
	ng/ml	1.17	0.936	1.40		
	µU/ml	5.44	4.35	6.53	Siemens Immulite 2000/2500	
	ng/ml	1.81	1.45	2.17		
	µU/ml	5.09	4.07	6.11	Siemens Immulite 1000	
	ng/ml	1.69	1.36	2.02		
	µU/ml	3.79	3.03	4.55	Beckman DxI800	
	ng/ml	1.26	1.01	1.51		
	µU/ml	3.94	3.15	4.73	Beckman Access	
ng/ml	1.31	1.05	1.57			

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	µU/ml	4.31	3.45	5.17	Tosoh Series
	ng/ml	1.44	1.15	1.73	
	µU/ml	4.03	3.22	4.84	Diasorin Liaison
	ng/ml	1.34	1.07	1.61	
	µU/ml	4.89	3.91	5.87	Roche Cobas E411
	ng/ml	1.63	1.30	1.96	
	µU/ml	7.08	5.66	8.50	SNIBE Maglumi Analysers
	ng/ml	2.36	1.88	2.84	
Immunoglobulin E	µU/ml	4.80	3.84	5.76	Roche Cobas 6000/8000
	ng/ml	1.60	1.28	1.92	
	µU/ml	4.59	3.67	5.51	IDS iSYS
	ng/ml	1.53	1.22	1.84	
	KIU/I = IU/ml	278	222	334	Abbott Architect
	KIU/I = IU/ml	175	140	210	Beckman Immage
	KIU/I = IU/ml	207	166	248	BioMerieux Vidas
	KIU/I = IU/ml	235	141	329	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	246	197	295	Siemens Immulite 2000/2500
	KIU/I = IU/ml	266	213	319	Siemens Immulite 1000
	KIU/I = IU/ml	250	200	300	Beckman Dxl800
	KIU/I = IU/ml	249	199	299	Roche Elecsys
	KIU/I = IU/ml	207	166	248	Pharmacia Unicap
	KIU/I = IU/ml	228	182	274	Tosoh Series
KIU/I = IU/ml	238	190	286	Roche Cobas E411	
KIU/I = IU/ml	235	188	282	Roche Cobas 6000/8000	
KIU/I = IU/ml	205	164	246	SNIBE Maglumi Analysers	
KIU/I = IU/ml	206	124	288	Siemens Centaur CP	
Insulin	mU/l	1.82	1.37	2.27	Siemens Centaur XP/XPT/Classic
	µU/ml	1.82	1.37	2.27	
	mU/l	2.08	1.56	2.60	Roche Elecsys
	µU/ml	2.08	1.56	2.60	
	mU/l	1.12	0.840	1.40	Beckman Access
	µU/ml	1.12	0.840	1.40	
	mU/l	1.49	1.12	1.86	Abbott Architect
	µU/ml	1.49	1.12	1.86	
	mU/l	2.30	1.73	2.88	Tosoh Series
	µU/ml	2.30	1.73	2.87	
	mU/l	2.15	1.61	2.69	Roche Cobas E411
	µU/ml	2.15	1.61	2.69	
	mU/l	1.11	0.833	1.39	Beckman Dxl 600/800
	µU/ml	1.11	0.833	1.39	
	mU/l	1.36	1.02	1.70	Diasorin Liaison
	µU/ml	1.36	1.02	1.70	
	mU/l	2.27	1.70	2.84	Roche Cobas 6000/8000
	µU/ml	2.27	1.70	2.84	
	mU/l	4.06	3.05	5.08	SNIBE Maglumi Analysers
	µU/ml	4.06	3.05	5.07	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	1.67	1.25	2.09	Siemens Centaur CP
	µU/ml	1.67	1.25	2.09	
Luteinising Hormone (LH)	mU/ml	2.15	1.72	2.58	Abbott Architect
	mU/ml	2.77	2.22	3.32	BioMerieux Vidas
	mU/ml	2.58	1.94	3.22	Siemens Centaur XP/XPT/Classic
	mU/ml	4.93	3.94	5.92	Siemens Immulite 2000
	mU/ml	5.32	4.26	6.38	Siemens Immulite 1000
	mU/ml	1.89	1.51	2.27	Beckman Dxl800
	mU/ml	3.66	2.93	4.39	Roche Elecsys
	mU/ml	3.45	2.76	4.14	Diasorin Liaison
	mU/ml	3.66	2.93	4.39	Roche Modular E170
	mU/ml	1.85	1.48	2.22	Beckman Access
	mU/ml	2.42	1.94	2.90	Tosoh Series
	mU/ml	5.00	4.00	6.00	Vitros ECi
	mU/ml	3.53	2.82	4.24	Roche Cobas E411
	mU/ml	3.62	2.90	4.34	Roche Cobas 6000/8000
	mU/ml	3.92	3.14	4.70	SNIBE Maglumi Analysers
	mU/ml	2.53	1.90	3.16	Siemens Centaur CP
mU/ml	2.36	1.89	2.83	Siemens Atellica IM	
Oestradiol	pmol/l	225	180	270	Abbott Architect
	pg/ml	61.2	49.0	73.4	
	pmol/l	233	186	280	BioMerieux Vidas
	pg/ml	63.4	50.6	76.2	
	pmol/l	174	104	244	Siemens Centaur XP/XPT/Classic
	pg/ml	47.3	28.4	66.2	
	pmol/l	137	110	164	Beckman Dxl800
	pg/ml	37.3	29.9	44.7	
	pmol/l	190	152	228	Roche Elecsys (Estradiol II)
	pg/ml	51.7	41.3	62.1	
	pmol/l	24.6	19.7	29.5	Tosoh (E2)
	pg/ml	6.69	5.36	8.02	
	pmol/l	78.2	62.6	93.8	Vitros ECi
	pg/ml	21.3	17.0	25.6	
	pmol/l	194	155	233	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	52.8	42.2	63.4	
	pmol/l	184	147	221	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	50.0	40.0	60.0	
	pmol/l	179	107	251	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	48.7	29.2	68.2	
pmol/l	166	133	199	SNIBE Maglumi Analysers	
pg/ml	45.2	36.2	54.2		
pmol/l	170	102	238	Siemens Centaur CP	
pg/ml	46.2	27.7	64.7		
pmol/l	194	155	233	Roche Cobas 6000/8000 (Estradiol III)	
pg/ml	52.8	42.2	63.4		
pmol/l	192	154	230	Roche Elecsys (Estradiol III)	
pg/ml	52.2	41.9	62.5		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	190	152	228	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	51.7	41.3	62.1	
	pmol/l	201	160	241	Siemens Atellica IM
	pg/ml	54.5	43.5	65.6	
Paracetamol	mmol/l	0.160	0.128	0.192	Abbott Architect
	mg/l	24.2	19.4	29.0	
	mmol/l	0.150	0.120	0.180	Roche Cobas 6000/8000
	mg/l	22.7	18.2	27.2	
	mmol/l	0.166	0.130	0.200	Gravimetric
	mg/l	25.1	19.7	30.3	
Phenobarbital	µmol/l	35.5	28.4	42.6	Abbott Architect
	µg/ml	8.24	6.59	9.89	
	µmol/l	31.8	25.4	38.2	Roche Cobas 6000/8000
	µg/ml	7.38	5.89	8.87	
	µmol/l	36.9	29.5	44.3	Siemens Immulite 2000/2500
	µg/ml	8.56	6.84	10.3	
	µmol/l	32.8	26.2	39.4	Beckman AU400/600/640/2700/5400
	µg/ml	7.61	6.08	9.14	
	µmol/l	36.7	29.4	44.0	Roche Integra
	µg/ml	8.51	6.82	10.2	
	µmol/l	36.2	29.0	43.4	Siemens Immulite 1000
	µg/ml	8.40	6.73	10.1	
	µmol/l	35.6	28.5	42.7	Beckman DxC
	µg/ml	8.26	6.61	9.91	
Phenytoin	µmol/l	19.9	15.9	23.9	Abbott Architect
	µg/ml	5.02	4.01	6.03	
	µmol/l	19.3	14.5	24.1	Siemens Centaur XP/XPT/Classic
	µg/ml	4.87	3.65	6.09	
	µmol/l	18.1	14.5	21.7	Siemens Dimension
	µg/ml	4.57	3.66	5.48	
	µmol/l	19.0	15.2	22.8	Siemens Immulite 2000/2500
	µg/ml	4.80	3.84	5.76	
	µmol/l	21.2	17.0	25.4	Siemens Immulite 1000
	µg/ml	5.35	4.29	6.41	
	µmol/l	19.8	15.8	23.8	Roche Integra
	µg/ml	5.00	3.99	6.01	
	µmol/l	19.2	15.4	23.0	Roche Cobas 6000/8000
	µg/ml	4.85	3.89	5.81	
Primidone	µmol/l	12.3	9.84	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	3.12	2.50	3.74	Abbott Architect
	ng/ml	0.977	0.783	1.17	
	nmol/l	4.60	3.68	5.52	BioMerieux Vidas
	ng/ml	1.44	1.15	1.73	
	nmol/l	2.29	1.26	3.32	Siemens Centaur XP/XPT/Classic
	ng/ml	0.720	0.394	1.04	
	nmol/l	3.03	2.42	3.64	Siemens Immulite 2000/2500
	ng/ml	0.948	0.757	1.14	
	nmol/l	3.04	2.43	3.65	Siemens Immulite 1000
	ng/ml	0.952	0.761	1.14	
	nmol/l	2.91	2.33	3.49	Beckman Dxl Prog Cal 33555
	ng/ml	0.911	0.729	1.09	
	nmol/l	3.48	2.78	4.18	Roche Elecsys (Prog. II)
	ng/ml	1.09	0.870	1.31	
	nmol/l	2.97	2.38	3.56	Beckman Access Prog Cal 33555
	ng/ml	0.930	0.745	1.12	
	nmol/l	2.29	1.83	2.75	Tosoh Series
	ng/ml	0.717	0.573	0.861	
	nmol/l	2.64	2.11	3.17	Vitros ECi
	ng/ml	0.826	0.660	0.992	
	nmol/l	3.50	2.80	4.20	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	1.10	0.876	1.32	
	nmol/l	3.47	2.78	4.16	Roche Cobas 6000/8000 (Prog. II)
	ng/ml	1.09	0.870	1.31	
nmol/l	2.29	1.83	2.75	Beckman Dxl Prog DE Cal A80773	
ng/ml	0.717	0.573	0.861		
nmol/l	2.52	1.39	3.65	Siemens Centaur CP	
ng/ml	0.789	0.434	1.14		
nmol/l	3.36	2.69	4.03	Roche Cobas 6000/8000 (Prog. III)	
ng/ml	1.05	0.842	1.26		
nmol/l	3.28	2.62	3.94	Roche Elecsys (Prog. III)	
ng/ml	1.03	0.820	1.24		
nmol/l	3.46	2.77	4.15	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	1.08	0.867	1.29		
Prolactin	μU/ml	151	121	181	Abbott Architect
	μU/ml	154	123	185	BioMerieux Vidas
	μU/ml	140	98.0	182	Siemens Centaur XP/XPT/Classic
	μU/ml	134	107	161	Siemens Immulite 2000/2500
	μU/ml	146	117	175	Siemens Immulite 1000
	μU/ml	126	101	151	Beckman Dxl800
	μU/ml	132	106	158	Roche Elecsys
	μU/ml	154	123	185	Diasorin Liaison
	μU/ml	129	103	155	Beckman Access
	μU/ml	195	156	234	Vitros ECi
μU/ml	125	100	150	Roche Elecsys/E170/Cobas 6000/8000 PRLII	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	160	128	192	Immunotech IRMA
	µU/ml	131	105	157	Roche Cobas E411
	µU/ml	125	100	150	Roche Cobas 6000/8000
	µU/ml	180	144	216	SNIBE Maglumi Analysers
	µU/ml	152	122	182	Abbott Architect restandardised
	µU/ml	136	95.2	177	Siemens Centaur CP
	µU/ml	136	109	163	Siemens Atellica IM
PSA Free	ng/ml = µg/l	1.33	0.998	1.66	Abbott Architect
	ng/ml = µg/l	2.48	1.86	3.10	BioMerieux Vidas
	ng/ml = µg/l	1.14	0.855	1.43	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.10	0.825	1.38	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.49	1.12	1.86	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	0.983	0.737	1.23	Roche Elecsys
	ng/ml = µg/l	0.744	0.558	0.930	Diasorin Liaison
	ng/ml = µg/l	1.50	1.13	1.88	Beckman Access standardised to Hybritech
	ng/ml = µg/l	0.917	0.688	1.15	Tosoh Series
	ng/ml = µg/l	0.973	0.730	1.22	Roche Cobas E411
	ng/ml = µg/l	0.962	0.722	1.20	Roche Cobas 6000/8000
	ng/ml = µg/l	1.26	0.945	1.58	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	0.694	0.521	0.868	SNIBE Maglumi Analysers
	ng/ml = µg/l	0.578	0.434	0.723	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.13	0.850	1.41	Siemens Atellica IM
PSA Total	ng/ml = µg/l	1.25	0.938	1.56	Abbott Architect
	ng/ml = µg/l	1.63	1.22	2.04	BioMerieux Vidas
	ng/ml = µg/l	1.73	1.30	2.16	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.47	1.10	1.84	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	0.823	0.617	1.03	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	0.951	0.713	1.19	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	0.948	0.711	1.19	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.86	1.40	2.33	Beckman DxI standardised to Hybritech
	ng/ml = µg/l	1.58	1.19	1.98	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.77	1.33	2.21	Roche Elecsys
	ng/ml = µg/l	0.925	0.694	1.16	Diasorin Liaison
	ng/ml = µg/l	1.74	1.31	2.18	Roche Modular E170
	ng/ml = µg/l	1.87	1.40	2.34	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.87	1.40	2.34	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.12	0.840	1.40	Tosoh Series
	ng/ml = µg/l	1.62	1.22	2.03	Vitros ECi
	ng/ml = µg/l	2.20	1.65	2.75	CIS RIA Coated tube
	ng/ml = µg/l	1.76	1.32	2.20	Roche Cobas E411
	ng/ml = µg/l	1.80	1.35	2.25	Roche Cobas 6000/8000
	ng/ml = µg/l	1.84	1.38	2.30	SNIBE Maglumi Analysers
	ng/ml = µg/l	1.18	0.885	1.48	Fujirebio Lumipulse G Series
	ng/ml = µg/l	1.69	1.27	2.11	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.38	1.04	1.72	Siemens Centaur CP
ng/ml = µg/l	1.50	1.13	1.88	Siemens Atellica IM	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Salicylic Acid	mmol/l	0.286	0.230	0.340	Gravimetric
	mg/dl	3.95	3.18	4.70	
SHBG	nmol/l	11.5	9.20	13.8	Siemens Centaur XP/XPT/Classic
	nmol/l	11.0	8.80	13.2	Siemens Immulite 2000/2500
	nmol/l	12.9	10.3	15.5	Roche Elecsys
	nmol/l	10.7	8.56	12.8	Abbott Architect
	nmol/l	12.5	10.0	15.0	Roche Cobas E411
	nmol/l	11.9	9.52	14.3	Roche Cobas 6000/8000
	nmol/l	10.8	8.64	13.0	Beckman Dxl800
T Uptake	%U	33.8	27.7	39.9	Siemens Immulite 2000
Testosterone	nmol/l	2.04	1.63	2.45	Abbott Architect
	ng/ml	0.588	0.469	0.707	
	ng/dl	58.8	46.9	70.7	
	nmol/l	0.990	0.792	1.19	BioMerieux Vidas
	ng/ml	0.285	0.228	0.342	
	ng/dl	28.5	22.8	34.2	
	nmol/l	1.62	1.05	2.19	Siemens Centaur XP/XPT/Classic
	ng/ml	0.467	0.304	0.630	
	ng/dl	46.7	30.4	63.0	
	nmol/l	1.31	1.05	1.57	Siemens Immulite 1000
	ng/ml	0.377	0.302	0.452	
	ng/dl	37.7	30.2	45.2	
	nmol/l	1.46	1.17	1.75	Beckman Dxl800
	ng/ml	0.420	0.337	0.503	
	ng/dl	42.0	33.7	50.3	
	nmol/l	1.62	1.30	1.94	Beckman Access
	ng/ml	0.467	0.374	0.560	
	ng/dl	46.7	37.4	56.0	
	nmol/l	1.16	0.928	1.39	Tosoh Series
	ng/ml	0.334	0.267	0.401	
	ng/dl	33.4	26.7	40.1	
nmol/l	0.866	0.693	1.04	Vitros ECi	
ng/ml	0.249	0.200	0.298		
ng/dl	24.9	20.0	29.8		
nmol/l	1.76	1.41	2.11	Roche Cobas 6000 Test 2	
ng/ml	0.507	0.406	0.608		
ng/dl	50.7	40.6	60.8		
nmol/l	1.76	1.41	2.11	Roche Elecsys Test II	
ng/ml	0.507	0.406	0.608		
ng/dl	50.7	40.6	60.8		
nmol/l	1.75	1.40	2.10	Roche Modular E170 Test II	
ng/ml	0.504	0.403	0.605		
ng/dl	50.4	40.3	60.5		
nmol/l	1.86	1.49	2.23	Roche Cobas 4000/e411 Test II	
ng/ml	0.536	0.429	0.643		
ng/dl	53.6	42.9	64.3		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	0.557	0.446	0.668	SNIBE Maglumi Analysers
	ng/ml	0.160	0.128	0.192	
	ng/dl	16.0	12.8	19.2	
	nmol/l	2.02	1.62	2.42	Abbott Architect 2nd Generation
	ng/ml	0.582	0.467	0.697	
	ng/dl	58.2	46.7	69.7	
	nmol/l	1.65	1.07	2.23	Siemens Centaur CP
	ng/ml	0.475	0.309	0.641	
	ng/dl	47.5	30.9	64.1	
	nmol/l	1.00	0.800	1.20	BioMerieux Vidas Testosterone II
	ng/ml	0.288	0.230	0.346	
	ng/dl	28.8	23.0	34.6	
	nmol/l	1.60	0.960	2.24	Siemens Centaur TST II
	ng/ml	0.461	0.277	0.645	
ng/dl	46.1	27.7	64.5		
Theophylline	µmol/l	28.9	23.1	34.7	Roche Integra
	µg/ml	5.21	4.16	6.26	
	µmol/l	23.7	19.0	28.4	Abbott Architect
	µg/ml	4.27	3.42	5.12	
	µmol/l	27.0	21.6	32.4	Roche Cobas 6000/8000
	µg/ml	4.87	3.89	5.85	
	µmol/l	25.0	20.0	30.0	Beckman DxC
	µg/ml	4.51	3.60	5.42	
Thyroglobulin	µmol/l	28.3	22.6	34.0	Gravimetric
	µg/ml	5.10	4.07	6.13	
	ng/ml	2.97	2.23	3.71	Roche Elecsys
	ng/ml	2.11	1.58	2.64	Beckman DxI800
	ng/ml	3.14	2.36	3.93	Roche Cobas E411
	ng/ml	3.07	2.30	3.84	Roche Cobas 6000/8000
	ng/ml	2.21	1.66	2.76	Beckman Access
	ng/ml	3.15	2.36	3.94	Tosoh Series
Thyroid Stimulating Hormone	ng/ml	3.09	2.32	3.86	Roche Cobas 6000 TGII
	ng/ml	3.30	2.48	4.13	Roche Elecsys TGII
	ng/ml	3.09	2.32	3.86	Roche Cobas 4000/E411 TGII
	µU/ml = mIU/l	0.112	0.090	0.134	Abbott Architect
	µU/ml = mIU/l	0.081	0.065	0.097	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.126	0.086	0.166	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	0.116	0.079	0.153	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	0.128	0.102	0.154	Siemens Immulite 2000/2500
	µU/ml = mIU/l	0.155	0.124	0.186	Siemens Immulite 1000
	µU/ml = mIU/l	0.103	0.082	0.124	Beckman DxI800 Fast TSH
	µU/ml = mIU/l	0.104	0.083	0.125	Beckman DxI800
	µU/ml = mIU/l	0.151	0.121	0.181	Roche Elecsys
	µU/ml = mIU/l	0.146	0.117	0.175	Diasorin Liaison
µU/ml = mIU/l	0.108	0.086	0.130	Beckman Access Fast TSH	
µU/ml = mIU/l	0.106	0.085	0.127	Beckman Access hyperTSH 3rd Generation	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.143	0.114	0.172	Tosoh Series
	µU/ml = mIU/l	0.254	0.203	0.305	Vitros ECI
	µU/ml = mIU/l	0.149	0.119	0.179	Roche Cobas E411
	µU/ml = mIU/l	0.155	0.124	0.186	Roche Cobas 6000/8000
	µU/ml = mIU/l	0.103	0.082	0.124	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.165	0.132	0.198	SNIBE Maglumi Analysers
	µU/ml = mIU/l	0.127	0.086	0.168	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.131	0.089	0.173	Siemens Centaur CP
	µU/ml = mIU/l	0.131	0.089	0.173	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	0.104	0.083	0.125	Beckman Dxl 600/800 Access (3rd IS)
Tobramycin	µmol/l	4.17	3.34	5.00	Gravimetric
	µg/ml	1.95	1.56	2.34	
Total Beta hCG	mU/ml=IU/l	14.4	11.5	17.3	Abbott Architect
	IU/ml	0.014	0.012	0.016	
	mU/ml=IU/l	20.5	16.4	24.6	BioMerieux Vidas
	IU/ml	0.021	0.016	0.026	
	mU/ml=IU/l	19.1	11.5	26.7	Siemens Centaur XP/XPT/Classic
	IU/ml	0.019	0.011	0.027	
	mU/ml=IU/l	22.4	17.9	26.9	Siemens Dimension
	IU/ml	0.022	0.018	0.026	
	mU/ml=IU/l	26.9	21.5	32.3	Siemens Immulite 2000
	IU/ml	0.027	0.022	0.032	
	mU/ml=IU/l	27.4	21.9	32.9	Siemens Immulite 1000
	IU/ml	0.027	0.022	0.032	
	mU/ml=IU/l	16.0	12.8	19.2	Beckman Dxl800
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	13.8	11.0	16.6	Diasorin Liaison
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	15.2	12.2	18.2	Roche Cobas Core EIA
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	15.6	12.5	18.7	Beckman Access
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	21.1	16.9	25.3	Tosoh Series
	IU/ml	0.021	0.017	0.025	
	mU/ml=IU/l	22.9	18.3	27.5	Vitros ECI
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	12.3	9.84	14.8	Roche STAT (Intact)
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	14.6	11.7	17.5	Roche hCG+Beta
	IU/ml	0.015	0.012	0.018	
mU/ml=IU/l	14.3	11.4	17.2	SNIBE Maglumi Analysers	
IU/ml	0.014	0.011	0.017		
mU/ml=IU/l	14.2	11.4	17.0	Radiometer AQT90 Flex	
IU/ml	0.014	0.011	0.017		
mU/ml=IU/l	15.9	12.7	19.1	Beckman Access Total BhCG (5th IS)	
IU/ml	0.016	0.013	0.019		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	16.4	13.1	19.7	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	16.9	10.1	23.7	Siemens Centaur CP
	IU/ml	0.017	0.010	0.024	
	mU/ml=IU/l	16.8	13.4	20.1	
IU/ml	0.020	0.010	0.020	Siemens Atellica IM	
Total T3	nmol/l	0.783	0.587	0.979	Abbott Architect
	ng/ml	0.510	0.382	0.638	
	ng/dl	51.0	38.2	63.8	
	nmol/l	0.637	0.478	0.796	BioMerieux Vidas
	ng/ml	0.415	0.311	0.519	
	ng/dl	41.5	31.1	51.9	
	nmol/l	0.662	0.497	0.827	Siemens Centaur XP/XPT/Classic
	ng/ml	0.431	0.323	0.539	
	ng/dl	43.1	32.3	53.9	
	nmol/l	0.617	0.463	0.771	Siemens Immulite 2000/2500
	ng/ml	0.402	0.301	0.503	
	ng/dl	40.2	30.1	50.3	
	nmol/l	0.617	0.463	0.771	Siemens Immulite 1000
	ng/ml	0.402	0.301	0.503	
	ng/dl	40.2	30.1	50.3	
	nmol/l	0.914	0.686	1.14	Beckman Dxl800
	ng/ml	0.595	0.447	0.743	
	ng/dl	59.5	44.7	74.3	
	nmol/l	1.31	0.983	1.64	Roche Elecsys
	ng/ml	0.853	0.640	1.07	
	ng/dl	85.3	64.0	107	
	nmol/l	1.06	0.795	1.33	Diasorin Liaison
	ng/ml	0.690	0.518	0.862	
	ng/dl	69.0	51.8	86.2	
	nmol/l	0.920	0.690	1.15	Beckman Access
	ng/ml	0.599	0.449	0.749	
	ng/dl	59.9	44.9	74.9	
	nmol/l	0.630	0.473	0.788	Tosoh Series
ng/ml	0.410	0.308	0.512		
ng/dl	41.0	30.8	51.2		
nmol/l	0.886	0.665	1.11	Vitros ECi	
ng/ml	0.577	0.433	0.721		
ng/dl	57.7	43.3	72.1		
nmol/l	0.592	0.444	0.740	CIS RIA Coated tube	
ng/ml	0.385	0.289	0.481		
ng/dl	38.5	28.9	48.1		
nmol/l	1.42	1.07	1.78	Roche Cobas E411	
ng/ml	0.924	0.697	1.15		
ng/dl	92.4	69.7	115		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	1.23	0.923	1.54	Roche Cobas 6000/8000
	ng/ml	0.801	0.601	1.00	
	ng/dl	80.1	60.1	100	
	nmol/l	0.494	0.371	0.618	SNIBE Maglumi Analysers
	ng/ml	0.322	0.242	0.402	
	ng/dl	32.2	24.2	40.2	
Total T4	nmol/l	32.9	24.7	41.1	Abbott Architect
	µg/dl	2.57	1.93	3.21	
	ng/ml	25.7	19.3	32.1	
	nmol/l	29.6	22.2	37.0	BioMerieux Vidas
	µg/dl	2.31	1.73	2.89	
	ng/ml	23.1	17.3	28.9	
	nmol/l	20.8	14.6	27.0	Siemens Centaur XP/XPT/Classic
	µg/dl	1.62	1.13	2.11	
	ng/ml	16.2	11.3	21.1	
	nmol/l	21.9	16.4	27.4	Siemens Immulite 2000/2500
	µg/dl	1.71	1.28	2.14	
	ng/ml	17.1	12.8	21.4	
	nmol/l	20.9	15.7	26.1	Beckman Dxl800
	µg/dl	1.63	1.22	2.04	
	ng/ml	16.3	12.2	20.4	
	nmol/l	35.3	26.5	44.1	Roche Elecsys
	µg/dl	2.75	2.07	3.43	
	ng/ml	27.5	20.7	34.3	
	nmol/l	24.2	18.2	30.3	Beckman Access
	µg/dl	1.89	1.42	2.36	
	ng/ml	18.9	14.2	23.6	
	nmol/l	23.8	17.9	29.8	Tosoh Series
	µg/dl	1.86	1.40	2.32	
	ng/ml	18.6	14.0	23.2	
	nmol/l	27.0	20.3	33.8	Vitros ECi
	µg/dl	2.11	1.58	2.64	
	ng/ml	21.1	15.8	26.4	
	nmol/l	26.8	20.1	33.5	CIS RIA Coated tube
	µg/dl	2.09	1.57	2.61	
	ng/ml	20.9	15.7	26.1	
nmol/l	36.2	27.2	45.3	Roche Cobas E411	
µg/dl	2.82	2.12	3.52		
ng/ml	28.2	21.2	35.2		
nmol/l	33.4	25.1	41.8	Roche Cobas 6000/8000	
µg/dl	2.61	1.96	3.26		
ng/ml	26.1	19.6	32.6		
nmol/l	27.4	20.6	34.3	Immunotech IRMA	
µg/dl	2.14	1.61	2.67		
ng/ml	21.4	16.1	26.7		
nmol/l	30.9	23.2	38.6	ELISA	
µg/dl	2.41	1.81	3.01		
ng/ml	24.1	18.1	30.1		

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Total T4	nmol/l	30.2	22.7	37.8	SNIBE Maglumi Analysers	
	µg/dl	2.36	1.77	2.95		
	ng/ml	23.6	17.7	29.5		
		nmol/l	23.0	16.1	29.9	Siemens Centaur CP
		µg/dl	1.79	1.25	2.33	
		ng/ml	17.9	12.5	23.3	
Valproic Acid	µmol/l	195	156	234	Abbott Architect	
	µg/ml	28.1	22.5	33.7		
	µmol/l	228	160	296	Siemens Centaur XP/XPT/Classic	
		µg/ml	32.9	23.0		42.8
	µmol/l	201	161	241	Siemens Dimension	
		µg/ml	29.0	23.2		34.8
	µmol/l	191	153	229	Siemens Immulite 2000/2500	
		µg/ml	27.6	22.1		33.1
	µmol/l	199	159	239	Siemens Immulite 1000	
		µg/ml	28.7	22.9		34.5
	µmol/l	200	160	240	Roche Integra	
		µg/ml	28.9	23.1		34.7
	µmol/l	203	162	244	Roche Cobas 6000/8000	
		µg/ml	29.3	23.4		35.2
	µmol/l	166	133	199	Beckman DxC	
		µg/ml	24.0	19.2		28.8
µmol/l	195	156	234	Beckman AU400/600/640/2700/5400		
	µg/ml	28.1	22.5		33.7	
µmol/l	243	194	291	Gravimetric		
	µg/ml	35.0	28.0		42.0	
Vancomycin	µmol/l	4.04	3.23	4.85	Roche Integra	
	µg/ml	6.00	4.80	7.20		
	µmol/l	3.41	2.73	4.09	Ortho Vitros Microslide Systems	
		µg/ml	5.07	4.06		6.08
	µmol/l	3.27	2.62	3.92	Abbott Architect	
		µg/ml	4.86	3.89		5.83
	µmol/l	3.04	2.43	3.65	Siemens Dimension	
		µg/ml	4.52	3.61		5.43
	µmol/l	3.39	2.71	4.07	Roche Cobas 6000/8000	
		µg/ml	5.04	4.03		6.05
	µmol/l	3.16	2.53	3.79	Thermo Scientific QMS Vancomycin	
		µg/ml	4.69	3.76		5.62
µmol/l	3.43	2.74	4.12	Gravimetric		
	µg/ml	5.10	4.07		6.12	
Vitamin B12	pmol/l	147	118	176	Abbott Architect	
	pg/ml	199	160	238		
	pmol/l	129	90.3	168	Siemens Centaur XP/XPT/Classic	
		pg/ml	175	123		227

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1862EC Size: 12 x 5ml / 4 x 5ml Expiry: 2021-11-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	114	91.2	137	Siemens Immulite 2000
	pg/ml	154	124	184	
	pmol/l	95.7	76.6	115	Beckman Dxl800
	pg/ml	130	104	156	
	pmol/l	166	133	199	Roche Elecsys
	pg/ml	225	180	270	
	pmol/l	93.9	75.1	113	Beckman Access
	pg/ml	127	102	152	
	pmol/l	147	118	176	Tosoh Series
	pg/ml	199	160	238	
	pmol/l	149	119	179	Vitros ECi
	pg/ml	202	161	243	
	pmol/l	114	91.2	137	MP Biomedicals RIA
	pg/ml	154	124	184	
	pmol/l	181	145	217	Roche Cobas E411
	pg/ml	245	196	294	
	pmol/l	137	110	164	Roche Cobas 6000/8000
	pg/ml	186	149	223	
pmol/l	132	92.4	172	Siemens Centaur CP	
pg/ml	179	125	233		