

IMMUNOASSAY PREMIUM PLUS - LEVEL 3 (IA PREMIUM PLUS 3)

CAT. NO. IA3111	GTIN: 05055273207279	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. 1913EC	EXPIRY: 2022-05-28	

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 3: 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.

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IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	27.8	20.9	34.8	Immunotech RIA
	ng/ml	9.20	6.92	11.5	
	nmol/l	40.7	30.5	50.9	DRG ELISA
	ng/ml	13.5	10.1	16.9	
	nmol/l	32.3	24.2	40.4	
ng/ml	10.7	8.01	13.4	DIAsource RIA	
25-OH Vitamin D	nmol/l	92.4	69.3	116	Diasorin Liaison
	nmol/l	122	91.5	153	Siemens Centaur XP/XPT/Classic
	nmol/l	74.7	56.0	93.4	Roche Vitamin D Total
	nmol/l	84.9	63.7	106	Abbott Architect
	nmol/l	107	80.3	134	Vitros ECi
	nmol/l	80.8	60.6	101	Tosoh Series
	nmol/l	81.0	60.8	101	BioMerieux Vidas
	nmol/l	80.7	60.5	101	Beckman Dxl 600/800
	nmol/l	91.7	68.8	115	Fujirebio Lumipulse G Series
	nmol/l	81.2	60.9	102	Beckman Access 25 OH Vitamin D Total
	nmol/l	98.1	73.6	123	Diasorin Liaison XL
	nmol/l	91.3	68.5	114	Roche Vitamin D Total II
ACTH	pmol/l	57.9	43.4	72.4	Siemens Immulite 2000/2500
	pg/ml	263	197	329	
	pmol/l	38.1	28.6	47.6	Roche Cobas E411
	pg/ml	173	130	216	
	pmol/l	54.7	41.0	68.4	Siemens Immulite 1000
	pg/ml	249	186	312	
	pmol/l	81.0	60.8	101	Diasorin Liaison XL
	pg/ml	368	276	460	
Aldosterone	pmol/l	257	193	321	CIS RIA
	pg/ml	92.7	69.6	116	
	pmol/l	1113	835	1391	Immunotech RIA
	pg/ml	402	301	503	
	pmol/l	694	521	868	Diasorin Liaison
	pg/ml	250	188	312	
Alpha-fetoprotein	pmol/l	686	515	858	Diasorin Liaison XL
	pg/ml	248	186	310	
	KIU/l = IU/ml	160	128	192	Abbott AFP-EIA
	ng/ml	194	155	233	
	KIU/l = IU/ml	159	127	191	Abbott Architect
	ng/ml	192	154	230	
	KIU/l = IU/ml	189	151	227	BioMerieux Vidas
	ng/ml	229	183	275	
KIU/l = IU/ml	190	150	230	Siemens Centaur XP/XPT/Classic	
ng/ml	230	182	278		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods	
			low	high		
Alpha-fetoprotein	KIU/l = IU/ml	166	133	199	Siemens Immulite 2000/2500	
	ng/ml	201	161	241		
	KIU/l = IU/ml	160	128	192	Siemens Immulite 1000	
	ng/ml	194	155	233		
	KIU/l = IU/ml	151	121	181	Beckman Dxl800	
	ng/ml	183	146	220		
	KIU/l = IU/ml	183	146	220	Roche Elecsys	
	ng/ml	221	177	265		
	KIU/l = IU/ml	196	157	235	Diasorin Liaison	
	ng/ml	237	190	284		
	KIU/l = IU/ml	163	130	196	Beckman Access	
	ng/ml	197	157	237		
	KIU/l = IU/ml	156	125	187	Tosoh Series	
	ng/ml	189	151	227		
	KIU/l = IU/ml	167	134	200	Vitros Eci	
	ng/ml	174	139	209		
	KIU/l = IU/ml	184	147	221	Roche Cobas 6000/8000	
	ng/ml	223	178	268		
	KIU/l = IU/ml	233	186	280	CIS IRMA	
	ng/ml	282	225	339		
KIU/l = IU/ml	183	146	220	Roche Cobas E411		
ng/ml	221	177	265			
KIU/l = IU/ml	182	146	218	Fujirebio Lumipulse G Series		
ng/ml	220	177	263			
KIU/l = IU/ml	179	143	215	Siemens Dimension		
ng/ml	217	173	261			
KIU/l = IU/ml	194	153	235	Siemens Centaur CP		
ng/ml	235	186	284			
KIU/l = IU/ml	184	147	221	Diasorin Liaison XL		
ng/ml	223	178	268			
Amikacin	µmol/l	23.4	18.7	28.1	Roche Cobas 6000/8000	
	µg/ml	13.7	11.0	16.4		
	µmol/l	24.1	19.3	28.9	Gravimetric	
	µg/ml	14.1	11.3	16.9		
Androstenedione	nmol/l	32.7	24.5	40.9	Siemens Immulite 2000	
	ng/ml	9.38	7.03	11.7		
	nmol/l	18.6	14.0	23.3	LC/MS	
	ng/ml	5.34	4.02	6.66		
	nmol/l	23.3	17.5	29.1	Diasorin Liaison XL	
	ng/ml	6.69	5.02	8.36		
	Beta-2-microglobulin	µg/ml = mg/l	7.08	5.66	8.50	Abbott Architect
		µg/ml = mg/l	7.37	5.90	8.84	BioMerieux Vidas
µg/ml = mg/l		7.24	5.79	8.69	Behring Nephelometer	
µg/ml = mg/l		5.78	4.62	6.94	Siemens Immulite 2000/2500	
µg/ml = mg/l		7.07	5.66	8.48	Siemens Immulite 1000	
µg/ml = mg/l		6.76	5.41	8.11	Diasorin Liaison	

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Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	µg/ml = mg/l	6.92	5.54	8.30	Roche Cobas 6000/8000
	µg/ml = mg/l	6.33	5.06	7.60	Diasorin Liaison XL
C-Peptide	nmol/l	2.990	2.240	3.740	Siemens Immulite 2000/2500
	ng/ml	9.03	6.76	11.3	
	nmol/l	3.120	2.340	3.900	Roche Elecsys
	ng/ml	9.42	7.06	11.8	
	nmol/l	3.030	2.270	3.790	Roche Cobas 6000/8000
	ng/ml	9.15	6.85	11.5	
	nmol/l	2.950	2.210	3.690	Siemens Immulite 1000
	ng/ml	8.91	6.67	11.2	
	nmol/l	3.100	2.330	3.880	Diasorin Liaison
	ng/ml	9.36	7.03	11.7	
	nmol/l	3.010	2.260	3.760	Roche Cobas E411
	ng/ml	9.09	6.82	11.4	
	nmol/l	2.730	2.050	3.410	Abbott Architect
	ng/ml	8.24	6.19	10.3	
	nmol/l	2.330	1.750	2.910	Siemens Centaur XP/XPT/Classic
	ng/ml	7.03	5.27	8.79	
nmol/l	3.010	2.260	3.760	Tosoh Series	
ng/ml	9.09	6.82	11.4		
nmol/l	3.180	2.390	3.980	Diasorin Liaison XL	
ng/ml	9.60	7.22	12.0		
CA 15-3	U/ml	83.8	67.0	101	Abbott Architect
	U/ml	72.1	57.7	86.5	BioMerieux Vidas
	U/ml	80.3	55.4	105	Siemens Centaur XP/XPT/Classic
	U/ml	69.3	55.4	83.2	Siemens Immulite 2000/2500
	U/ml	29.7	23.8	35.6	Beckman DxI800
	U/ml	81.1	64.9	97.3	Roche Elecsys
	U/ml	81.3	65.0	97.6	Diasorin Liaison
	U/ml	29.3	23.4	35.2	Beckman Access
	U/ml	75.4	60.3	90.5	Tosoh Series
	U/ml	72.7	58.2	87.2	Vitros ECi
	U/ml	84.5	67.6	101	Roche Cobas 6000/8000
	U/ml	83.8	67.0	101	Roche Cobas E411
	U/ml	93.1	74.5	112	Fujirebio Lumipulse G Series
	U/ml	79.9	55.1	105	Siemens Centaur CP
U/ml	84.6	67.7	102	Diasorin Liaison XL	
CA 19-9	U/ml	181	145	217	BioMerieux Vidas
	U/ml	197	136	258	Siemens Centaur XP/XPT/Classic
	U/ml	169	135	203	Siemens Immulite 2000/2500
	U/ml	148	118	178	Beckman DxI800
	U/ml	129	103	155	Roche Elecsys
	U/ml	195	156	234	Diasorin Liaison
	U/ml	163	130	196	Beckman Access
	U/ml	87.9	70.3	105	Tosoh Series
	U/ml	265	212	318	Vitros ECi

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Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	415	332	498	Abbott Architect XR/XR2 kit
	U/ml	135	108	162	Roche Cobas 6000/8000
	U/ml	133	106	160	Roche Cobas E411
	U/ml	220	176	264	Fujirebio Lumipulse G Series
	U/ml	196	135	257	Siemens Centaur CP
	U/ml	206	165	247	Diasorin Liaison XL
CA125	U/ml	273	218	328	Abbott Architect
	U/ml	227	182	272	BioMerieux Vidas
	U/ml	228	157	299	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	230	159	301	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	243	194	292	Siemens Immulite 2000/2500
	U/ml	254	203	305	Siemens Immulite 1000
	U/ml	208	166	250	Beckman DxI800
	U/ml	201	161	241	Roche Elecsys
	U/ml	271	217	325	Diasorin Liaison
	U/ml	206	165	247	Beckman Access
	U/ml	355	284	426	Tosoh Series
	U/ml	219	175	263	Vitros Eci
	U/ml	205	164	246	Roche Cobas E411
	U/ml	202	162	242	Roche Cobas 6000/8000
	U/ml	202	162	242	Fujirebio Lumipulse G Series
	U/ml	241	166	316	Siemens Centaur CP CA125 II kit
U/ml	262	210	314	Diasorin Liaison XL	
Carbamazepine	µmol/l	69.7	55.8	83.6	Abbott Architect
	µg/ml	16.5	13.2	19.8	
	µmol/l	73.5	45.6	101	Siemens Centaur XP/XPT/Classic
	µg/ml	17.4	10.8	24.0	
	µmol/l	70.3	56.2	84.4	Siemens Dimension
	µg/ml	16.6	13.3	19.9	
	µmol/l	60.3	48.2	72.4	Siemens Immulite 2000/2500
	µg/ml	14.3	11.4	17.2	
	µmol/l	65.6	52.5	78.7	Siemens Immulite 1000
	µg/ml	15.5	12.4	18.6	
	µmol/l	74.8	59.8	89.8	Roche Integra
	µg/ml	17.7	14.1	21.3	
	µmol/l	65.2	52.2	78.2	Vitros
	µg/ml	15.4	12.3	18.5	
	µmol/l	69.4	55.5	83.3	Roche Cobas 6000/8000
	µg/ml	16.4	13.1	19.7	
	µmol/l	64.7	51.8	77.6	Beckman DxC
	µg/ml	15.3	12.2	18.4	
	µmol/l	71.0	56.8	85.2	Beckman AU400/600/640/2700/5400
	µg/ml	16.8	13.4	20.2	
µmol/l	72.9	58.3	87.5	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	17.2	13.8	20.6		
µmol/l	72.2	57.8	86.6	Gravimetric	
µg/ml	17.1	13.7	20.5		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	58.9	47.1	70.7	Abbott Architect
	ng/ml = µg/l	56.3	45.0	67.6	BioMerieux Vidas
	ng/ml = µg/l	53.8	37.1	70.5	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	42.0	33.6	50.4	CIS RIA Coated tube
	ng/ml = µg/l	71.8	57.4	86.2	Siemens Immulite 2000/2500
	ng/ml = µg/l	80.1	64.1	96.1	Siemens Immulite 1000
	ng/ml = µg/l	52.6	42.1	63.1	Beckman Dxl800
	ng/ml = µg/l	46.2	37.0	55.4	Roche Elecsys
	ng/ml = µg/l	56.2	45.0	67.4	Diasorin Liaison
	ng/ml = µg/l	54.4	43.5	65.3	Beckman Access
	ng/ml = µg/l	64.5	51.6	77.4	Tosoh Series
	ng/ml = µg/l	58.4	46.7	70.1	Vitros ECi
	ng/ml = µg/l	47.2	37.8	56.6	Roche Cobas 6000/8000
	ng/ml = µg/l	47.3	37.8	56.8	Roche Cobas E411
	ng/ml = µg/l	66.2	53.0	79.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	54.4	37.5	71.3	Siemens Centaur CP
	ng/ml = µg/l	45.1	36.1	54.1	Mindray CL-2000i
	ng/ml = µg/l	54.2	43.4	65.0	Diasorin Liaison XL
Cortisol	nmol/l	719	539	899	Abbott Architect
	µg/dl	25.9	19.4	32.4	
	nmol/l	736	552	920	BioMerieux Vidas
	µg/dl	26.5	19.9	33.1	
	nmol/l	957	660	1254	Siemens Centaur XP/XPT/Classic
	µg/dl	34.5	23.8	45.2	
	nmol/l	737	553	921	CIS RIA
	µg/dl	26.5	19.9	33.1	
	nmol/l	835	626	1044	Siemens Immulite 2000/2500
	µg/dl	30.1	22.5	37.7	
	nmol/l	831	623	1039	Siemens Immulite 1000
	µg/dl	29.9	22.4	37.4	
	nmol/l	809	607	1011	Beckman Dxl800
	µg/dl	29.1	21.9	36.3	
	nmol/l	873	655	1091	Roche Elecsys
	µg/dl	31.4	23.6	39.2	
	nmol/l	847	635	1059	Diasorin Liaison
	µg/dl	30.5	22.9	38.1	
	nmol/l	874	656	1093	Beckman Access
	µg/dl	31.5	23.6	39.4	
nmol/l	931	698	1164	Tosoh Series	
µg/dl	33.5	25.1	41.9		
nmol/l	815	611	1019	Vitros ECi	
µg/dl	29.3	22.0	36.6		
nmol/l	842	632	1053	Roche Cobas 6000/8000	
µg/dl	30.3	22.8	37.8		
nmol/l	898	674	1123	Roche Cobas E411	
µg/dl	32.3	24.3	40.3		

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Analyte	unit	Target	Range		methods	
			low	high		
Cortisol	nmol/l	987	681	1293	Siemens Centaur CP	
	µg/dl	35.5	24.5	46.5		
	nmol/l	879	659	1099	Roche Cobas 4000/e411 Gen II	
	µg/dl	31.6	23.7	39.5		
	nmol/l	832	624	1040	Roche Cobas 6000/8000 Gen II	
	µg/dl	30.0	22.5	37.5		
	nmol/l	846	635	1058	Roche Elecsys Gen II	
	µg/dl	30.5	22.9	38.1		
	DHEA-S	µmol/l	21.0	16.8	25.2	Abbott Architect
		µmol/l	18.7	15.0	22.4	Siemens Immulite 2000/2500
µmol/l		20.7	16.6	24.8	Siemens Immulite 1000	
µmol/l		17.3	13.8	20.8	Beckman Dxl800	
µmol/l		26.6	21.3	31.9	Roche Elecsys	
µmol/l		17.5	14.0	21.0	Beckman Access	
µmol/l		16.3	13.0	19.6	Diasorin Liaison	
µmol/l		17.5	10.5	24.5	Siemens Centaur XP/XPT/Classic	
µmol/l		25.4	20.3	30.5	Roche Cobas E411	
µmol/l		26.3	21.0	31.6	Roche Cobas 6000/8000	
µmol/l		17.1	13.7	20.5	Diasorin Liaison XL	
Digoxin	nmol/l	4.02	3.22	4.82	Abbott Architect	
	ng/ml	3.14	2.51	3.77		
	nmol/l	4.67	3.74	5.60	BioMerieux Vidas	
	ng/ml	3.65	2.92	4.38		
	nmol/l	5.31	4.14	6.48	Siemens Centaur XP/XPT/Classic	
	ng/ml	4.15	3.24	5.06		
	nmol/l	4.67	3.74	5.60	Siemens Dimension	
	ng/ml	3.65	2.92	4.38		
	nmol/l	4.72	3.78	5.66	Beckman Dxl800	
	ng/ml	3.69	2.95	4.43		
	nmol/l	4.92	3.94	5.90	Roche Integra	
	ng/ml	3.84	3.08	4.60		
	nmol/l	5.08	4.06	6.10	Beckman Access	
	ng/ml	3.97	3.17	4.77		
	nmol/l	4.67	3.74	5.60	Vitros	
	ng/ml	3.65	2.92	4.38		
	nmol/l	4.78	3.82	5.74	Roche Cobas 6000/8000	
	ng/ml	3.73	2.98	4.48		
	nmol/l	4.94	3.95	5.93	Beckman AU400/600/640/2700/5400	
	ng/ml	3.86	3.08	4.64		
nmol/l	4.51	3.61	5.41	Siemens ADVIA 1200/1650/1800/2400		
ng/ml	3.52	2.82	4.22			
nmol/l	5.10	4.08	6.12	Roche Cobas 4000/E411		
ng/ml	3.98	3.19	4.77			
nmol/l	5.12	4.10	6.14	Gravimetric		
ng/ml	4.00	3.20	4.80			

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Analyte	unit	Target	Range		methods
			low	high	
Ethosuximide	µmol/l	493	394	592	Gravimetric
	µg/ml	69.9	55.9	83.9	
Ferritin	ng/ml = µg/l	359	287	431	Abbott Architect
	ng/ml = µg/l	286	229	343	BioMerieux Vidas
	ng/ml = µg/l	322	251	393	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	306	245	367	Siemens Dimension
	ng/ml = µg/l	301	241	361	Siemens Immulite 2000/2500
	ng/ml = µg/l	250	200	300	Siemens Immulite 1000
	ng/ml = µg/l	239	191	287	Beckman DxI800
	ng/ml = µg/l	339	271	407	Roche Elecsys
	ng/ml = µg/l	345	276	414	Diasorin Liaison
	ng/ml = µg/l	335	268	402	Roche Modular E170
	ng/ml = µg/l	242	194	290	Beckman Access
	ng/ml = µg/l	237	190	284	Tosoh Series
	ng/ml = µg/l	216	173	259	Vitros ECI
	ng/ml = µg/l	353	282	424	Roche Cobas E411
	ng/ml = µg/l	269	215	323	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	208	166	250	Fujirebio Lumipulse G Series
ng/ml = µg/l	293	229	358	Siemens Centaur CP	
ng/ml = µg/l	362	290	434	Diasorin Liaison XL	
Folate	nmol/l	17.7	13.5	21.9	Abbott Architect
	ng/ml	7.81	5.95	9.67	
	nmol/l	38.0	22.8	53.2	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	16.8	10.1	23.5	
	nmol/l	15.3	11.6	19.0	Siemens Immulite 2000
	ng/ml	6.75	5.12	8.38	
	nmol/l	20.1	15.3	24.9	Beckman DxI800
	ng/ml	8.86	6.75	11.0	
	nmol/l	20.4	15.5	25.3	Beckman Access
	ng/ml	9.00	6.84	11.2	
	nmol/l	29.8	22.6	37.0	Tosoh Series
	ng/ml	13.1	9.97	16.2	
	nmol/l	13.1	9.96	16.2	Vitros ECI
	ng/ml	5.78	4.39	7.17	
	nmol/l	15.4	11.7	19.1	MP Biomedicals RIA
	ng/ml	6.79	5.16	8.42	
nmol/l	12.2	9.27	15.1	Siemens Dimension	
ng/ml	5.38	4.09	6.67		
nmol/l	41.6	25.0	58.2	Siemens Centaur CP (enhanced kit)	
ng/ml	18.3	11.0	25.6		
Free T3	pmol/l	22.7	17.0	28.4	Abbott Architect
	ng/dl	1.48	1.11	1.85	
	pg/ml	14.8	11.1	18.5	
	pmol/l	22.7	17.0	28.4	BioMerieux Vidas
	ng/dl	1.48	1.11	1.85	
	pg/ml	14.8	11.1	18.5	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	23.7	14.2	33.2	Siemens Centaur XP/XPT/Classic
	ng/dl	1.54	0.924	2.16	
	pg/ml	15.4	9.24	21.6	
	pmol/l	15.7	11.8	19.6	Siemens Immulite 2000/2500
	ng/dl	1.02	0.767	1.27	
	pg/ml	10.2	7.68	12.7	
	pmol/l	16.1	12.1	20.1	Siemens Immulite 1000
	ng/dl	1.05	0.787	1.31	
	pg/ml	10.5	7.88	13.1	
	pmol/l	17.5	13.1	21.9	Beckman Dxl800
	ng/dl	1.14	0.852	1.43	
	pg/ml	11.4	8.53	14.3	
	pmol/l	28.9	21.7	36.1	Roche Elecsys
	ng/dl	1.88	1.41	2.35	
	pg/ml	18.8	14.1	23.5	
	pmol/l	39.0	29.3	48.8	Diasorin Liaison
	ng/dl	2.54	1.90	3.18	
	pg/ml	25.4	19.1	31.7	
	pmol/l	18.6	14.0	23.3	Beckman Access
	ng/dl	1.21	0.910	1.51	
	pg/ml	12.1	9.11	15.1	
	pmol/l	33.6	25.2	42.0	Tosoh Series
	ng/dl	2.18	1.64	2.72	
	pg/ml	21.9	16.4	27.4	
	pmol/l	33.7	25.3	42.1	Vitros ECI
	ng/dl	2.19	1.64	2.74	
	pg/ml	21.9	16.5	27.3	
	pmol/l	28.7	21.5	35.9	Roche Cobas E411
	ng/dl	1.87	1.40	2.34	
	pg/ml	18.7	14.0	23.4	
pmol/l	29.3	22.0	36.6	Roche Cobas 6000/8000	
ng/dl	1.90	1.43	2.37		
pg/ml	19.1	14.3	23.9		
pmol/l	22.7	13.6	31.8	Siemens Centaur CP	
ng/dl	1.48	0.888	2.07		
pg/ml	14.8	8.88	20.7		
pmol/l	23.4	17.6	29.3	Mindray CL-2000i	
ng/dl	1.52	1.14	1.90		
pg/ml	15.2	11.5	18.9		
pmol/l	37.8	28.4	47.3	Diasorin Liaison XL	
ng/dl	2.46	1.85	3.07		
pg/ml	24.6	18.5	30.7		
Free T4	pmol/l	51.6	38.7	64.5	Abbott Architect
	ng/dl	4.02	3.02	5.02	
	pg/ml	40.2	30.2	50.2	
	pmol/l	51.1	38.3	63.9	Siemens Centaur XP/XPT/Classic
	ng/dl	3.99	2.99	4.99	
	pg/ml	39.9	29.9	49.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	59.2	44.4	74.0	CIS RIA Coated tube
	ng/dl	4.62	3.46	5.78	
	pg/ml	46.2	34.6	57.8	
	pmol/l	80.3	60.2	100	Siemens Dimension
	ng/dl	6.26	4.70	7.82	
	pg/ml	62.6	47.0	78.2	
	pmol/l	72.2	54.2	90.3	Siemens Immulite 2000/2500
	ng/dl	5.63	4.23	7.03	
	pg/ml	56.3	42.3	70.3	
	pmol/l	75.7	56.8	94.6	Siemens Immulite 1000
	ng/dl	5.90	4.43	7.37	
	pg/ml	59.0	44.3	73.7	
	pmol/l	55.6	41.7	69.5	Beckman Dxl800
	ng/dl	4.34	3.25	5.43	
	pg/ml	43.4	32.5	54.3	
	pmol/l	74.3	55.7	92.9	Roche Elecsys
	ng/dl	5.80	4.34	7.26	
	pg/ml	58.0	43.4	72.6	
	pmol/l	108	81.0	135	Diasorin Liaison
	ng/dl	8.42	6.32	10.5	
	pg/ml	84.2	63.2	105	
	pmol/l	52.0	39.0	65.0	Beckman Access
	ng/dl	4.06	3.04	5.08	
	pg/ml	40.6	30.4	50.8	
	pmol/l	72.4	54.3	90.5	Tosoh Series
	ng/dl	5.65	4.24	7.06	
	pg/ml	56.5	42.4	70.6	
	pmol/l	90.0	67.5	113	Vitros ECI
	ng/dl	7.02	5.27	8.77	
	pg/ml	70.2	52.7	87.7	
pmol/l	74.0	55.5	92.5	Roche Cobas 6000/8000	
ng/dl	5.77	4.33	7.21		
pg/ml	57.7	43.3	72.1		
pmol/l	55.7	41.8	69.6	Immunotech IRMA	
ng/dl	4.34	3.26	5.42		
pg/ml	43.4	32.6	54.2		
pmol/l	73.2	54.9	91.5	Roche Cobas E411	
ng/dl	5.71	4.28	7.14		
pg/ml	57.1	42.8	71.4		
pmol/l	52.9	39.7	66.1	ELISA	
ng/dl	4.13	3.10	5.16		
pg/ml	41.3	31.0	51.6		
pmol/l	84.5	63.4	106	Siemens Dimension Vista LOCI	
ng/dl	6.59	4.95	8.23		
pg/ml	65.9	49.5	82.3		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods	
			low	high		
Free T4	pmol/l	78.5	58.9	98.1	Biomerieux Vidas FT4N Kit	
	ng/dl	6.12	4.59	7.65		
	pg/ml	61.2	45.9	76.5		
	pmol/l	56.2	42.2	70.2	Siemens Centaur CP	
		ng/dl	4.38	3.29		5.47
		pg/ml	43.8	32.9		54.7
	pmol/l	50.1	37.6	62.6	Mindray CL-2000i	
		ng/dl	3.91	2.93		4.89
		pg/ml	39.1	29.3		48.9
	pmol/l	118	88.5	148	Diasorin Liaison XL	
		ng/dl	9.20	6.90		11.5
		pg/ml	92.0	69.0		115
FSH	mU/ml	52.8	42.2	63.4	Abbott Architect	
	mU/ml	71.9	57.5	86.3	BioMerieux Vidas	
	mU/ml	77.9	60.8	95.0	Siemens Centaur XP/XPT/Classic	
	mU/ml	60.5	48.4	72.6	Siemens Immulite 2000/2500	
	mU/ml	58.8	47.0	70.6	Siemens Immulite 1000	
	mU/ml	63.6	50.9	76.3	Beckman Dxl800	
	mU/ml	59.2	47.4	71.0	Roche/BM Elecsys	
	mU/ml	70.0	56.0	84.0	Diasorin Liaison	
	mU/ml	62.8	50.2	75.4	Beckman Access	
	mU/ml	55.0	44.0	66.0	Tosoh Series	
	mU/ml	45.3	36.2	54.4	Vitros ECi	
	mU/ml	59.8	47.8	71.8	Roche Cobas E411	
	mU/ml	57.0	45.6	68.4	Roche Cobas 6000/8000	
	mU/ml	51.2	41.0	61.4	Fujirebio Lumipulse G Series	
	mU/ml	67.1	52.3	81.9	Siemens Centaur CP	
	mU/ml	38.6	30.9	46.3	Mindray CL-2000i	
mU/ml	82.2	65.8	98.6	Diasorin Liaison XL		
Gentamicin	µmol/l	9.42	7.54	11.3	Roche Integra	
	µg/ml	4.50	3.60	5.40		
	µmol/l	12.5	9.50	15.5	Siemens Centaur XP/XPT/Classic	
	µg/ml	5.98	4.54	7.42		
	µmol/l	10.7	8.56	12.8	Siemens Dimension Vista	
	µg/ml	5.11	4.09	6.13		
	µmol/l	8.48	6.78	10.2	Roche Cobas 6000/8000	
	µg/ml	4.05	3.24	4.86		
Growth Hormone (GH)	µU/ml	44.2	35.4	53.0	Siemens Immulite 2000/2500	
	ng/ml	14.7	11.8	17.6		
	µU/ml	41.3	33.0	49.6	Siemens Immulite 1000	
	ng/ml	13.8	11.0	16.6		
	µU/ml	37.7	30.2	45.2	Beckman Dxl800	
	ng/ml	12.6	10.1	15.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	µU/ml	38.9	31.1	46.7	Beckman Access
	ng/ml	13.0	10.4	15.6	
	µU/ml	46.3	37.0	55.6	Tosoh Series
	ng/ml	15.4	12.3	18.5	
	µU/ml	45.9	36.7	55.1	Diasorin Liaison
	ng/ml	15.3	12.2	18.4	
	µU/ml	40.5	32.4	48.6	Roche Cobas E411
	ng/ml	13.5	10.8	16.2	
	µU/ml	40.8	32.6	49.0	Roche Cobas 6000/8000
	ng/ml	13.6	10.9	16.3	
Immunoglobulin E	µU/ml	47.4	37.9	56.9	IDS iSYS
	ng/ml	15.8	12.6	19.0	
	µU/ml	39.1	31.3	46.9	Diasorin Liaison XL
	ng/ml	13.0	10.4	15.6	
	KIU/I = IU/ml	520	416	624	Abbott Architect
	KIU/I = IU/ml	537	430	644	BioMerieux Vidas
	KIU/I = IU/ml	620	372	868	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	563	450	676	Siemens Immulite 2000/2500
	KIU/I = IU/ml	576	461	691	Siemens Immulite 1000
	KIU/I = IU/ml	511	409	613	Beckman Dxl800
Insulin	KIU/I = IU/ml	560	448	672	Roche Elecsys
	KIU/I = IU/ml	517	414	620	Pharmacia Unicap
	KIU/I = IU/ml	518	414	622	Tosoh Series
	KIU/I = IU/ml	589	471	707	Roche Cobas E411
	KIU/I = IU/ml	590	472	708	Roche Cobas 6000/8000
	KIU/I = IU/ml	472	378	566	Fujirebio Lumipulse G Series
	KIU/I = IU/ml	533	320	746	Siemens Centaur CP
	mU/l	25.3	19.0	31.6	Siemens Centaur XP/XPT/Classic
	µU/ml	25.3	19.0	31.6	
	mU/l	10.4	7.80	13.0	Siemens Immulite 1000
µU/ml	10.4	7.80	13.0		
mU/l	9.76	7.32	12.2	Siemens Immulite 2000	
µU/ml	9.76	7.32	12.2		
mU/l	31.6	23.7	39.5	Roche Elecsys	
µU/ml	31.6	23.7	39.5		
mU/l	24.6	18.5	30.8	Beckman Access	
µU/ml	24.6	18.5	30.7		
mU/l	24.8	18.6	31.0	Abbott Architect	
µU/ml	24.8	18.6	31.0		
mU/l	39.9	29.9	49.9	Tosoh Series	
µU/ml	39.9	29.9	49.9		
mU/l	31.9	23.9	39.9	Roche Cobas E411	
µU/ml	31.9	23.9	39.9		
mU/l	23.7	17.8	29.6	Beckman Dxl 600/800	
µU/ml	23.7	17.8	29.6		
mU/l	36.5	27.4	45.6	Diasorin Liaison	
µU/ml	36.5	27.4	45.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	31.7	23.8	39.6	Roche Cobas 6000/8000
	µU/ml	31.7	23.8	39.6	
	mU/l	33.8	25.4	42.3	Fujirebio Lumipulse G Series
	µU/ml	33.8	25.4	42.2	
	mU/l	26.7	20.0	33.4	Siemens Centaur CP
	µU/ml	26.7	20.0	33.4	
Luteinising Hormone (LH)	mU/ml	44.5	35.6	53.4	Abbott Architect
	mU/ml	54.4	43.5	65.3	BioMerieux Vidas
	mU/ml	52.7	40.6	64.8	Siemens Centaur XP/XPT/Classic
	mU/ml	84.6	67.7	102	Siemens Immulite 2000
	mU/ml	87.7	70.2	105	Siemens Immulite 1000
	mU/ml	40.8	32.6	49.0	Beckman Dxl800
	mU/ml	56.5	45.2	67.8	Roche Elecsys
	mU/ml	71.0	56.8	85.2	Diasorin Liaison
	mU/ml	41.1	32.9	49.3	Beckman Access
	mU/ml	50.1	42.6	57.6	Tosoh Series
	mU/ml	55.2	46.9	63.5	Vitros ECi
	mU/ml	56.8	48.3	65.3	Roche Cobas E411
	mU/ml	57.6	49.0	66.2	Roche Cobas 6000/8000
	mU/ml	53.4	45.4	61.4	Fujirebio Lumipulse G Series
	mU/ml	53.2	41.0	65.4	Siemens Centaur CP
mU/ml	62.7	53.3	72.1	Mindray CL-2000i	
mU/ml	70.0	55.4	84.6	Diasorin Liaison XL	
Oestradiol	pmol/l	1207	966	1448	Abbott Architect
	pg/ml	328	263	393	
	pmol/l	2766	2213	3319	BioMerieux Vidas
	pg/ml	752	602	902	
	pmol/l	2255	1398	3112	Siemens Centaur XP/XPT/Classic
	pg/ml	613	380	846	
	pmol/l	2220	1776	2664	Siemens Immulite 2000/2500
	pg/ml	604	483	725	
	pmol/l	2104	1683	2525	Siemens Immulite 1000
	pg/ml	572	458	686	
	pmol/l	1916	1533	2299	Beckman Dxl800
	pg/ml	521	417	625	
	pmol/l	1421	1137	1705	Roche Elecsys (Estradiol II)
	pg/ml	387	309	465	
	pmol/l	2149	1719	2579	Beckman Access
pg/ml	585	468	702		
pmol/l	1900	1520	2280	Tosoh (E2)	
pg/ml	517	413	621		
pmol/l	2395	1916	2874	Vitros ECi	
pg/ml	651	521	781		
pmol/l	1422	1138	1706	Roche Cobas 6000/8000 (Estradiol II)	
pg/ml	387	310	464		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1430	1144	1716	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	389	311	467	
	pmol/l	2247	1393	3101	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	611	379	843	
	pmol/l	1726	1381	2071	Tosoh (iE2-hsE2)
	pg/ml	469	376	562	
	pmol/l	2441	1513	3369	Siemens Centaur CP
	pg/ml	664	412	916	
	pmol/l	2314	1435	3193	Siemens Centaur CP Enhanced (eE2)
	pg/ml	629	390	868	
	pmol/l	2039	1631	2447	Fujirebio Lumipulse G Series
	pg/ml	555	444	666	
	pmol/l	1436	1149	1723	Roche Cobas 6000/8000 (Estradiol III)
	pg/ml	391	313	469	
Paracetamol	mmol/l	0.500	0.400	0.600	Abbott Architect
	mg/l	75.7	60.5	90.9	
	mmol/l	0.480	0.384	0.576	Roche Cobas 6000/8000
	mg/l	72.6	58.1	87.1	
Phenobarbital	mmol/l	0.529	0.420	0.630	Gravimetric
	mg/l	80.0	63.5	95.3	
	µmol/l	122	97.6	146	Abbott Architect
	µg/ml	28.3	22.6	34.0	
	µmol/l	121	96.8	145	Roche Cobas 6000/8000
	µg/ml	28.1	22.5	33.7	
	µmol/l	127	102	152	Siemens Immulite 2000/2500
	µg/ml	29.5	23.7	35.3	
	µmol/l	119	95.2	143	Beckman AU400/600/640/2700/5400
	µg/ml	27.6	22.1	33.1	
	µmol/l	154	112	196	Siemens Centaur XP/XPT/Classic
	µg/ml	35.7	26.1	45.3	
Phenytoin	µmol/l	115	92.0	138	Roche Integra
	µg/ml	26.7	21.3	32.1	
	µmol/l	124	99.0	149	Siemens Immulite 1000
	µg/ml	28.8	23.0	34.6	
	µmol/l	121	96.8	145	Gravimetric
	µg/ml	28.1	22.5	33.6	
	µmol/l	93.4	74.7	112	Abbott Architect
	µg/ml	23.6	18.9	28.3	
Phenytoin	µmol/l	118	92.0	144	Siemens Centaur XP/XPT/Classic
	µg/ml	29.8	23.2	36.4	
	µmol/l	102	81.6	122	Siemens Dimension
	µg/ml	25.8	20.6	31.0	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	98.6	78.9	118	Siemens Immulite 1000
	µg/ml	24.9	19.9	29.9	
	µmol/l	87.3	69.8	105	Roche Integra
	µg/ml	22.0	17.6	26.4	
	µmol/l	92.9	74.3	111	Vitros
	µg/ml	23.5	18.8	28.2	
	µmol/l	92.9	74.3	111	Roche Cobas E411
	µg/ml	23.5	18.8	28.2	
	µmol/l	91.9	73.5	110	Roche Cobas 6000/8000
	µg/ml	23.2	18.6	27.8	
Primidone	µmol/l	90.2	72.2	108	Beckman DxC
	µg/ml	22.8	18.2	27.4	
	µmol/l	99.8	79.8	120	Gravimetric
	µg/ml	25.2	20.1	30.3	
Progesterone	µmol/l	32.7	26.2	39.2	Gravimetric
	µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	86.7	69.4	104	Abbott Architect
	ng/ml	27.1	21.7	32.5	
	nmol/l	148	118	178	BioMerieux Vidas
	ng/ml	46.3	36.9	55.7	
	nmol/l	69.8	49.6	90.0	Siemens Centaur XP/XPT/Classic
	ng/ml	21.8	15.5	28.1	
	nmol/l	59.9	47.9	71.9	Siemens Immulite 2000/2500
	ng/ml	18.7	15.0	22.4	
	nmol/l	78.3	62.6	94.0	Siemens Immulite 1000
	ng/ml	24.5	19.6	29.4	
	nmol/l	99.0	79.2	119	Beckman Dxl Prog Cal 33555
	ng/ml	31.0	24.8	37.2	
	nmol/l	102	81.6	122	Roche Elecsys (Prog. II)
	ng/ml	31.9	25.5	38.3	
	nmol/l	98.7	79.0	118	Beckman Access Prog Cal 33555
	ng/ml	30.9	24.7	37.1	
	nmol/l	110	88.0	132	Tosoh Series
	ng/ml	34.4	27.5	41.3	
	nmol/l	101	85.9	116	Vitros ECI
	ng/ml	31.6	26.9	36.3	
nmol/l	97.7	78.2	117	Roche Cobas 4000/e411 (Prog. II)	
ng/ml	30.6	24.5	36.7		
nmol/l	101	80.8	121	Roche Cobas 6000/8000 (Prog. II)	
ng/ml	31.6	25.3	37.9		
nmol/l	81.3	65.0	97.6	Diasorin Liaison	
ng/ml	25.4	20.3	30.5		
nmol/l	93.0	74.4	112	Beckman Dxl Prog DE Cal A80773	
ng/ml	29.1	23.3	34.9		
nmol/l	73.1	51.9	94.3	Siemens Centaur CP	
ng/ml	22.9	16.3	29.5		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods	
			low	high		
Progesterone	nmol/l	93.5	74.8	112	Fujirebio Lumipulse G Series	
	ng/ml	29.3	23.4	35.2		
	nmol/l	99.0	79.2	119	Roche Cobas 6000/8000 (Prog. III)	
	ng/ml	31.0	24.8	37.2		
	nmol/l	100	78.0	121	Roche Elecsys (Prog. III)	
	ng/ml	31.2	24.4	38.0		
	nmol/l	98.8	79.0	119	Roche Cobas 4000/e411 (Prog. III)	
	ng/ml	30.9	24.7	37.1		
	Prolactin	µU/ml	1262	1010	1514	Abbott Architect
		µU/ml	1524	1219	1829	BioMerieux Vidas
µU/ml		1046	785	1307	Siemens Centaur XP/XPT/Classic	
µU/ml		1153	922	1384	Siemens Immulite 2000/2500	
µU/ml		1144	915	1373	Siemens Immulite 1000	
µU/ml		1027	822	1232	Beckman DxI800	
µU/ml		1240	992	1488	Roche Elecsys	
µU/ml		1326	1061	1591	Diasorin Liaison	
µU/ml		1006	805	1207	Beckman Access	
µU/ml		1204	963	1445	Tosoh Series	
µU/ml		1052	842	1262	Vitros Eci	
µU/ml		1222	978	1466	Roche Elecsys/E170/Cobas 6000/8000 PRLII	
µU/ml		1268	1014	1522	Immunotech IRMA	
µU/ml		1257	1006	1508	Roche Cobas E411	
µU/ml		1201	961	1441	Roche Cobas 6000/8000	
µU/ml		1555	1244	1866	Fujirebio Lumipulse G Series	
µU/ml		1121	841	1401	Siemens Centaur CP	
µU/ml		1394	1115	1673	Mindray CL-2000i	
µU/ml	1258	1006	1510	Diasorin Liaison XL		
PSA Free	ng/ml = µg/l	23.2	17.4	29.0	Abbott Architect	
	ng/ml = µg/l	18.8	14.1	23.5	Siemens Centaur XP/XPT/Classic	
	ng/ml = µg/l	19.0	14.3	23.8	Siemens Immulite 2000/2500	
	ng/ml = µg/l	15.6	11.7	19.5	Siemens Immulite 1000	
	ng/ml = µg/l	24.3	18.2	30.4	Beckman DXI standardised to Hybritech	
	ng/ml = µg/l	16.6	12.5	20.8	Roche Elecsys	
	ng/ml = µg/l	11.2	8.40	14.0	Diasorin Liaison	
	ng/ml = µg/l	24.0	18.0	30.0	Beckman Access standardised to Hybritech	
	ng/ml = µg/l	15.4	11.6	19.3	Tosoh Series	
	ng/ml = µg/l	17.3	13.0	21.6	Roche Cobas E411	
	ng/ml = µg/l	17.1	12.8	21.4	Roche Cobas 6000/8000	
	ng/ml = µg/l	20.5	15.4	25.6	Beckman DxI800 standardised to WHO IRP96/670	
	ng/ml = µg/l	12.3	9.23	15.4	Ortho Vitros 3600/5600/ECi PSA II	
	ng/ml = µg/l	15.6	11.7	19.5	Fujirebio Lumipulse G Series	
	ng/ml = µg/l	12.4	9.30	15.5	Diasorin Liaison XL	
PSA Total	ng/ml = µg/l	21.7	16.3	27.1	Abbott Architect	
	ng/ml = µg/l	25.5	19.1	31.9	bioMerieux VIDAS TPSA	
	ng/ml = µg/l	26.1	19.6	32.6	Siemens Centaur XP/XPT/Classic	
	ng/ml = µg/l	16.2	12.2	20.3	Siemens Immulite 2000/2500 1st generation	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	16.1	12.1	20.1	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	16.7	12.5	20.9	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	16.7	12.5	20.9	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	31.2	23.4	39.0	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	28.7	21.5	35.9	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	29.8	22.4	37.3	Roche Elecsys
	ng/ml = µg/l	16.8	12.6	21.0	Diasorin Liaison
	ng/ml = µg/l	31.2	23.4	39.0	Beckman Access standardised to Hybritech
	ng/ml = µg/l	31.2	23.4	39.0	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	18.9	14.2	23.6	Tosoh Series
	ng/ml = µg/l	28.4	21.3	35.5	Vitros ECi
	ng/ml = µg/l	27.8	20.9	34.8	CIS RIA Coated tube
	ng/ml = µg/l	30.2	22.7	37.8	Roche Cobas E411
	ng/ml = µg/l	29.7	22.3	37.1	Roche Cobas 6000/8000
	ng/ml = µg/l	31.9	23.9	39.9	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	20.2	15.2	25.3	Fujirebio Lumipulse G Series
ng/ml = µg/l	28.5	21.4	35.6	Ortho Vitros 3600/5600/ECi PSA II	
ng/ml = µg/l	26.0	19.5	32.5	Siemens Centaur CP	
ng/ml = µg/l	16.7	12.5	20.9	Diasorin Liaison XL	
Salicylic Acid	mmol/l	2.91	2.33	3.49	Abbott Architect
	mg/dl	40.2	32.2	48.2	
	mmol/l	2.85	2.28	3.42	Beckman DxC
	mg/dl	39.4	31.5	47.3	
	mmol/l	2.88	2.30	3.46	Gravimetric
mg/dl	39.8	31.8	47.8		
SHBG	nmol/l	36.2	29.0	43.4	Siemens Immulite 1000
	nmol/l	38.2	30.6	45.8	Siemens Immulite 2000/2500
	nmol/l	42.1	33.7	50.5	Roche Elecsys
	nmol/l	37.4	29.9	44.9	Abbott Architect
	nmol/l	43.5	34.8	52.2	Roche Cobas E411
	nmol/l	41.7	33.4	50.0	Roche Cobas 6000/8000
	nmol/l	36.8	29.4	44.2	Beckman Dxl800
T Uptake	%U	38.5	31.6	45.4	Siemens Immulite 2000
Testosterone	nmol/l	27.4	21.9	32.9	Abbott Architect
	ng/ml	7.89	6.31	9.47	
	ng/dl	789	631	947	
	nmol/l	23.2	18.6	27.8	BioMerieux Vidas
	ng/ml	6.68	5.36	8.00	
	ng/dl	668	536	800	
	nmol/l	24.4	17.8	31.0	Siemens Centaur XP/XPT/Classic
	ng/ml	7.03	5.13	8.93	
	ng/dl	703	513	893	
	nmol/l	34.3	27.4	41.2	Siemens Immulite 2000/2500
	ng/ml	9.88	7.89	11.9	
	ng/dl	988	789	1187	
nmol/l	43.7	35.0	52.4	Siemens Immulite 1000	
ng/ml	12.6	10.1	15.1		
ng/dl	1259	1008	1510		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	23.5	18.8	28.2	Beckman DxI800
	ng/ml	6.77	5.41	8.13	
	ng/dl	677	541	813	
	nmol/l	26.1	20.9	31.3	Beckman Access
	ng/ml	7.52	6.02	9.02	
	ng/dl	752	602	902	
	nmol/l	39.4	31.5	47.3	Tosoh Series
	ng/ml	11.3	9.07	13.5	
	ng/dl	1135	907	1363	
	nmol/l	40.4	32.3	48.5	Vitros ECI
	ng/ml	11.6	9.30	13.9	
	ng/dl	1164	930	1398	
	nmol/l	28.2	22.6	33.8	Roche Cobas 6000 Test 2
	ng/ml	8.12	6.51	9.73	
	ng/dl	812	651	973	
	nmol/l	27.5	22.0	33.0	Roche Elecsys Test II
	ng/ml	7.92	6.34	9.50	
	ng/dl	792	634	950	
	nmol/l	28.2	22.6	33.8	Roche Cobas 4000/e411 Test II
	ng/ml	8.12	6.51	9.73	
	ng/dl	812	651	973	
nmol/l	27.1	21.7	32.5	Abbott Architect 2nd Generation	
ng/ml	7.80	6.25	9.35		
ng/dl	780	625	935		
nmol/l	22.8	16.6	29.0	Siemens Centaur CP	
ng/ml	6.57	4.80	8.34		
ng/dl	657	480	834		
nmol/l	23.1	18.5	27.7	BioMerieux Vidas Testosterone II	
ng/ml	6.65	5.33	7.97		
ng/dl	665	533	797		
nmol/l	24.3	19.4	29.2	Siemens Centaur TST II	
ng/ml	7.00	5.59	8.41		
ng/dl	700	559	841		
nmol/l	12.3	9.84	14.8	Diasorin Liaison XL	
ng/ml	3.54	2.83	4.25		
ng/dl	354	283	425		
Theophylline	µmol/l	161	129	193	Siemens Dimension
	µg/ml	29.0	23.2	34.8	
	µmol/l	164	131	197	Roche Integra
	µg/ml	29.6	23.6	35.6	
	µmol/l	147	118	176	Abbott Architect
	µg/ml	26.5	21.3	31.7	
µmol/l	156	125	187	Roche Cobas 6000/8000	
µg/ml	28.1	22.5	33.7		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Theophylline	µmol/l	161	129	193	Beckman DxC
	µg/ml	29.0	23.2	34.8	
	µmol/l	149	119	179	Beckman AU400/600/640/2700/5400
	µg/ml	26.8	21.4	32.2	
	µmol/l	166	133	199	Gravimetric
Thyroglobulin	µg/ml	29.9	24.0	35.9	
	ng/ml	37.3	28.0	46.6	Siemens Immulite 1000
	ng/ml	32.8	24.6	41.0	Siemens Immulite 2000
	ng/ml	64.7	48.5	80.9	Roche Elecsys
	ng/ml	58.0	43.5	72.5	Beckman Dxl800
	ng/ml	65.6	49.2	82.0	Roche Cobas E411
	ng/ml	25.7	19.3	32.1	Diesse Chorus
	ng/ml	64.5	48.4	80.6	Roche Cobas 6000/8000
	ng/ml	58.3	43.7	72.9	Beckman Access
	ng/ml	62.3	46.7	77.9	Tosoh Series
	ng/ml	64.5	48.4	80.6	Roche Cobas 6000 TGII
	ng/ml	65.4	49.1	81.8	Roche Elecsys TGII
	ng/ml	63.8	47.9	79.8	Roche Cobas 4000/E411 TGII
ng/ml	28.2	21.2	35.3	Diasorin Liaison XL	
Thyroid Stimulating Hormone	µU/ml = mIU/l	17.0	13.6	20.4	Abbott Architect
	µU/ml = mIU/l	20.8	16.6	25.0	bioMerieux VIDAS TSH
	µU/ml = mIU/l	20.0	16.0	24.0	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	22.1	15.0	29.2	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	20.1	16.1	24.1	CIS IRMA
	µU/ml = mIU/l	21.6	14.7	28.5	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	20.6	16.5	24.7	Siemens Immulite 2000/2500
	µU/ml = mIU/l	19.4	15.5	23.3	Siemens Immulite 1000
	µU/ml = mIU/l	18.1	14.5	21.7	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	18.3	14.6	22.0	Beckman Dxl800
	µU/ml = mIU/l	19.9	15.9	23.9	Roche Elecsys
	µU/ml = mIU/l	24.6	19.7	29.5	Diasorin Liaison
	µU/ml = mIU/l	18.6	14.9	22.3	Beckman Access Fast TSH
	µU/ml = mIU/l	18.5	14.8	22.2	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	22.9	18.3	27.5	Tosoh Series
	µU/ml = mIU/l	26.9	21.5	32.3	Vitros ECi
	µU/ml = mIU/l	19.9	15.9	23.9	Roche Cobas E411
	µU/ml = mIU/l	20.2	16.2	24.2	Roche Cobas 6000/8000
	µU/ml = mIU/l	18.1	14.5	21.7	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	19.5	15.6	23.4	Siemens Dimension Vista LOCI
µU/ml = mIU/l	21.5	14.6	28.4	Siemens Centaur XP/XPT/Classic TSH3-Ultra	
µU/ml = mIU/l	21.8	14.8	28.8	Siemens Centaur CP	
µU/ml = mIU/l	21.6	14.7	28.5	Siemens Centaur CP TSH3-Ultra	
µU/ml = mIU/l	16.9	13.5	20.3	Mindray CL-2000i	
µU/ml = mIU/l	18.2	14.6	21.8	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	26.1	20.9	31.3	Diasorin Liaison XL	
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	155	124	186	Abbott Architect
	IU/ml	0.155	0.124	0.186	
	mU/ml=IU/l	800	640	960	BioMerieux Vidas
	IU/ml	0.800	0.640	0.960	
	mU/ml=IU/l	105	63.0	147	Siemens Centaur XP/XPT/Classic
	IU/ml	0.105	0.063	0.147	
	mU/ml=IU/l	917	734	1100	Siemens Dimension
	IU/ml	0.917	0.734	1.10	
	mU/ml=IU/l	1273	1018	1528	Siemens Immulite 2000
	IU/ml	1.27	1.02	1.52	
	mU/ml=IU/l	1104	883	1325	Siemens Immulite 1000
	IU/ml	1.10	0.883	1.32	
	mU/ml=IU/l	130	104	156	Beckman DxI800
	IU/ml	0.130	0.104	0.156	
	mU/ml=IU/l	152	122	182	Diasorin Liaison
	IU/ml	0.152	0.122	0.182	
	mU/ml=IU/l	413	330	496	Roche Cobas Core EIA
	IU/ml	0.413	0.330	0.496	
	mU/ml=IU/l	121	96.8	145	Beckman Access
	IU/ml	0.121	0.097	0.145	
	mU/ml=IU/l	838	670	1006	Tosoh Series
	IU/ml	0.838	0.670	1.01	
	mU/ml=IU/l	887	710	1064	Vitros Eci
	IU/ml	0.887	0.710	1.06	
	mU/ml=IU/l	311	249	373	Roche STAT (Intact)
	IU/ml	0.311	0.249	0.373	
	mU/ml=IU/l	406	325	487	Roche hCG+Beta
	IU/ml	0.406	0.325	0.487	
	mU/ml=IU/l	123	98.4	148	Fujirebio Lumipulse G Series
	IU/ml	0.123	0.098	0.148	
mU/ml=IU/l	121	96.8	145	Beckman Access Total BhCG (5th IS)	
IU/ml	0.121	0.097	0.145		
mU/ml=IU/l	131	105	157	Beckman DxI Total BhCG (5th IS)	
IU/ml	0.131	0.105	0.157		
mU/ml=IU/l	102	61.2	143	Siemens Centaur CP	
IU/ml	0.102	0.061	0.143		
mU/ml=IU/l	173	138	208	Diasorin Liaison XL	
IU/ml	0.173	0.138	0.208		
Total T3	nmol/l	5.06	3.80	6.33	Abbott Architect
	ng/ml	3.29	2.47	4.11	
	ng/dl	329	247	411	
	nmol/l	5.77	4.33	7.21	BioMerieux Vidas
	ng/ml	3.76	2.82	4.70	
	ng/dl	376	282	470	
	nmol/l	6.75	5.06	8.44	Siemens Centaur XP/XPT/Classic
	ng/ml	4.39	3.29	5.49	
	ng/dl	439	329	549	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	6.51	4.88	8.14	Siemens Immulite 2000/2500
	ng/ml	4.24	3.18	5.30	
	ng/dl	424	318	530	
	nmol/l	6.59	4.94	8.24	Siemens Immulite 1000
	ng/ml	4.29	3.22	5.36	
	ng/dl	429	322	536	
	nmol/l	5.53	4.15	6.91	Beckman Dxl800
	ng/ml	3.60	2.70	4.50	
	ng/dl	360	270	450	
	nmol/l	7.02	5.27	8.78	Roche Elecsys
	ng/ml	4.57	3.43	5.71	
	ng/dl	457	343	571	
	nmol/l	5.38	4.04	6.73	Diasorin Liaison
	ng/ml	3.50	2.63	4.37	
	ng/dl	350	263	437	
	nmol/l	5.81	4.36	7.26	Beckman Access
	ng/ml	3.78	2.84	4.72	
	ng/dl	378	284	472	
	nmol/l	5.88	4.41	7.35	Tosoh Series
	ng/ml	3.83	2.87	4.79	
	ng/dl	383	287	479	
	nmol/l	7.11	5.33	8.89	Vitros ECi
	ng/ml	4.63	3.47	5.79	
	ng/dl	463	347	579	
nmol/l	4.94	3.71	6.18	CIS RIA Coated tube	
ng/ml	3.22	2.42	4.02		
ng/dl	322	242	402		
nmol/l	6.52	4.89	8.15	Roche Cobas E411	
ng/ml	4.24	3.18	5.30		
ng/dl	424	318	530		
nmol/l	6.26	4.70	7.83	Roche Cobas 6000/8000	
ng/ml	4.08	3.06	5.10		
ng/dl	408	306	510		
nmol/l	7.32	5.49	9.15	Siemens Centaur CP	
ng/ml	4.77	3.58	5.96		
ng/dl	477	358	596		
nmol/l	4.54	3.41	5.68	Diasorin Liaison XL	
ng/ml	2.96	2.22	3.70		
ng/dl	296	222	370		
Total T4	nmol/l	196	147	245	Abbott Architect
	µg/dl	15.3	11.5	19.1	
	ng/ml	153	115	191	
	nmol/l	223	167	279	BioMerieux Vidas
	µg/dl	17.4	13.0	21.8	
ng/ml	174	130	218		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	210	147	273	Siemens Centaur XP/XPT/Classic
	µg/dl	16.4	11.5	21.3	
	ng/ml	164	115	213	
	nmol/l	198	149	248	Siemens Immulite 2000/2500
	µg/dl	15.4	11.6	19.2	
	ng/ml	154	116	192	
	nmol/l	210	158	263	Siemens Immulite 1000
	µg/dl	16.4	12.3	20.5	
	ng/ml	164	123	205	
	nmol/l	205	154	256	Beckman Dxl800
	µg/dl	16.0	12.0	20.0	
	ng/ml	160	120	200	
	nmol/l	180	135	225	Roche Elecsys
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
	nmol/l	181	136	226	Diasorin Liaison
	µg/dl	14.1	10.6	17.6	
	ng/ml	141	106	176	
	nmol/l	215	161	269	Beckman Access
	µg/dl	16.8	12.6	21.0	
	ng/ml	168	126	210	
	nmol/l	185	139	231	Tosoh Series
	µg/dl	14.4	10.8	18.0	
	ng/ml	144	108	180	
nmol/l	205	154	256	Vitros ECI	
µg/dl	16.0	12.0	20.0		
ng/ml	160	120	200		
nmol/l	228	171	285	CIS RIA Coated tube	
µg/dl	17.8	13.3	22.3		
ng/ml	178	133	223		
nmol/l	179	134	224	Roche Cobas E411	
µg/dl	14.0	10.5	17.5		
ng/ml	140	105	175		
nmol/l	177	133	221	Roche Cobas 6000/8000	
µg/dl	13.8	10.4	17.2		
ng/ml	138	104	172		
nmol/l	153	115	191	Immunotech IRMA	
µg/dl	11.9	8.97	14.8		
ng/ml	119	89.7	148		
nmol/l	180	135	225	ELISA	
µg/dl	14.0	10.5	17.5		
ng/ml	140	105	175		
nmol/l	216	151	281	Siemens Centaur CP	
µg/dl	16.8	11.8	21.8		
ng/ml	168	118	218		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	169	127	211	Diasorin Liaison XL
	µg/dl	13.2	9.91	16.5	
	ng/ml	132	99.1	165	
Valproic Acid	µmol/l	907	726	1088	Abbott Architect
	µg/ml	131	105	157	
	µmol/l	964	771	1157	Siemens Centaur XP/XPT/Classic
	µg/ml	139	111	167	
	µmol/l	882	706	1058	Siemens Dimension
	µg/ml	127	102	152	
	µmol/l	1006	805	1207	Siemens Immulite 2000/2500
	µg/ml	145	116	174	
	µmol/l	1012	810	1214	Siemens Immulite 1000
	µg/ml	146	117	175	
	µmol/l	909	727	1091	Roche Integra
	µg/ml	131	105	157	
	µmol/l	1008	806	1210	Vitros
	µg/ml	145	116	174	
	µmol/l	936	749	1123	Roche Cobas 6000/8000
	µg/ml	135	108	162	
	µmol/l	874	699	1049	Beckman DxC
	µg/ml	126	101	151	
µmol/l	970	776	1164	Beckman AU400/600/640/2700/5400	
µg/ml	140	112	168		
µmol/l	923	738	1108	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	133	106	160		
µmol/l	1116	893	1339	Gravimetric	
µg/ml	161	129	193		
Vancomycin	µmol/l	11.2	8.96	13.4	Roche Integra
	µg/ml	16.6	13.3	19.9	
	µmol/l	9.31	7.45	11.2	Ortho Vitros Microslide Systems
	µg/ml	13.8	11.1	16.5	
	µmol/l	10.8	8.64	13.0	Abbott Architect
	µg/ml	16.0	12.8	19.2	
	µmol/l	8.20	6.56	9.84	Siemens Centaur XP/XPT/Classic
	µg/ml	12.2	9.76	14.6	
	µmol/l	10.2	8.16	12.2	Siemens Dimension
	µg/ml	15.2	12.1	18.3	
	µmol/l	9.97	7.98	12.0	Roche Cobas 6000/8000
	µg/ml	14.8	11.9	17.7	
µmol/l	11.2	8.96	13.4	Thermo Scientific QMS Vancomycin	
µg/ml	16.6	13.3	19.9		
µmol/l	10.8	8.64	13.0	Gravimetric	
µg/ml	16.0	12.8	19.3		
Vitamin B12	pmol/l	732	586	878	Abbott Architect
	pg/ml	992	794	1190	
	pmol/l	843	632	1054	Siemens Centaur XP/XPT/Classic
	pg/ml	1142	857	1427	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot No. 1913EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2022-05-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	647	518	776	Siemens Immulite 2000
	pg/ml	877	702	1052	
	pmol/l	686	549	823	Beckman Dxl800
	pg/ml	930	744	1116	
	pmol/l	798	638	958	Roche Elecsys
	pg/ml	1081	864	1298	
	pmol/l	690	552	828	Beckman Access
	pg/ml	935	748	1122	
	pmol/l	970	776	1164	Tosoh Series
	pg/ml	1314	1051	1577	
	pmol/l	655	524	786	Vitros Eci
	pg/ml	888	710	1066	
	pmol/l	781	625	937	MP Biomedicals RIA
	pg/ml	1058	847	1269	
	pmol/l	786	629	943	Siemens Dimension
	pg/ml	1065	852	1278	
pmol/l	860	645	1075	Siemens Centaur CP	
pg/ml	1165	874	1456		