

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

<b>CAT. NO.</b> IA3111	<b>GTIN:</b> 05055273207279	<b>SIZE:</b> 12 x 5 ml
<b>CAT. NO.</b> IA3112	<b>GTIN:</b> 05055273207286	<b>SIZE:</b> 4 x 5 ml
<b>LOT NO.</b> 1942EC	<b>EXPIRY:</b> 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 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](mailto:Technical.Services@randox.com).



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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	44.8	33.6	56.0	DRG ELISA
	ng/ml	14.8	11.1	18.5	
	nmol/l	34.0	25.5	42.5	DIAsource RIA
	ng/ml	11.3	8.44	14.2	
25-OH Vitamin D	nmol/l	114	85.5	143	Diasorin Liaison
	nmol/l	139	104	174	Siemens Centaur XP/XPT/Classic
	nmol/l	87.4	65.6	109	Roche Vitamin D Total
	nmol/l	98.2	73.7	123	Abbott Architect
	nmol/l	113	84.8	141	Vitros ECI
	nmol/l	86.8	65.1	109	Tosoh Series
	nmol/l	84.6	63.5	106	BioMerieux Vidas
	nmol/l	93.1	69.8	116	Beckman Dxl 600/800
	nmol/l	102	76.5	128	Fujirebio Lumipulse G Series
	nmol/l	97.2	72.9	122	Beckman Access 25 OH Vitamin D Total
	nmol/l	97.4	73.1	122	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	108	81.0	135	Diasorin Liaison XL
	nmol/l	108	81.0	135	Roche Vitamin D Total II
	nmol/l	134	101	168	Siemens Atellica IM
ACTH	pmol/l	44.8	33.6	56.0	Siemens Immulite 2000/2500
	pg/ml	204	153	255	
	pmol/l	27.1	20.3	33.9	Roche Cobas E411
	pg/ml	123	92.3	154	
	pmol/l	27.2	20.4	34.0	Roche Cobas 6000/8000
	pg/ml	124	92.7	155	
	pmol/l	76.0	57.0	95.0	CIS IRMA
	pg/ml	345	259	431	
	pmol/l	40.2	30.2	50.3	Siemens Immulite 1000
	pg/ml	183	137	229	
Aldosterone	pmol/l	39.0	29.3	48.8	Diasorin Liaison
	pg/ml	177	133	221	
	pmol/l	50.9	38.2	63.6	Diasorin Liaison XL
	pg/ml	231	174	288	
	pmol/l	760	570	950	DRG ELISA
	pg/ml	274	206	342	
	pmol/l	212	159	265	CIS RIA
	pg/ml	76.5	57.4	95.6	
	pmol/l	898	674	1123	Immunotech RIA
	pg/ml	324	243	405	
Aldosterone	pmol/l	579	434	724	Diasorin Liaison
	pg/ml	209	157	261	
	pmol/l	594	446	743	Diasorin Liaison XL
	pg/ml	214	161	267	

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	166	133	199	Abbott AFP-EIA
	ng/ml	201	161	241	
	KIU/l = IU/ml	166	133	199	Abbott Architect
	ng/ml	201	161	241	
	KIU/l = IU/ml	185	148	222	BioMerieux Vidas
	ng/ml	224	179	269	
	KIU/l = IU/ml	195	154	236	Siemens Centaur XP/XPT/Classic
	ng/ml	236	186	286	
	KIU/l = IU/ml	166	133	199	Siemens Immulite 2000/2500
	ng/ml	201	161	241	
	KIU/l = IU/ml	175	140	210	Siemens Immulite 1000
	ng/ml	212	169	255	
	KIU/l = IU/ml	161	129	193	Beckman DxI800
	ng/ml	195	156	234	
	KIU/l = IU/ml	185	148	222	Roche Elecsys
	ng/ml	224	179	269	
	KIU/l = IU/ml	196	157	235	Diasorin Liaison
	ng/ml	237	190	284	
	KIU/l = IU/ml	170	136	204	Beckman Access
	ng/ml	206	165	247	
KIU/l = IU/ml	163	130	196	Tosoh Series	
ng/ml	197	157	237		
KIU/l = IU/ml	179	143	215	Vitros Eci	
ng/ml	186	149	223		
KIU/l = IU/ml	190	152	228	Roche Cobas 6000/8000	
ng/ml	230	184	276		
KIU/l = IU/ml	285	228	342	CIS IRMA	
ng/ml	345	276	414		
KIU/l = IU/ml	191	153	229	Roche Cobas E411	
ng/ml	231	185	277		
KIU/l = IU/ml	169	135	203	Fujirebio Lumipulse G Series	
ng/ml	204	163	245		
KIU/l = IU/ml	194	153	235	Siemens Centaur CP	
ng/ml	235	186	284		
KIU/l = IU/ml	192	154	230	Diasorin Liaison XL	
ng/ml	232	186	278		
Amikacin	µmol/l	24.0	19.2	28.8	Roche Cobas 6000/8000
	µg/ml	14.1	11.2	17.0	
	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	22.5	16.9	28.1	Diasorin Liaison XL
	ng/ml	6.46	4.85	8.07	
Beta-2-microglobulin	µg/ml = mg/l	5.67	4.54	6.80	Abbott Architect
	µg/ml = mg/l	6.18	4.94	7.42	BioMerieux Vidas

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Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	µg/ml = mg/l	5.60	4.48	6.72	Behring Nephelometer
	µg/ml = mg/l	4.77	3.82	5.72	Siemens Immulite 2000/2500
	µg/ml = mg/l	5.79	4.63	6.95	Tosoh Series
	µg/ml = mg/l	5.59	4.47	6.71	Roche Cobas 6000/8000
	µg/ml = mg/l	4.48	3.58	5.38	Fujirebio Lumipulse G Series
	µg/ml = mg/l	6.43	5.14	7.72	Siemens ADVIA 1200/1650/1800/2400
C-Peptide	nmol/l	3.500	2.630	4.380	Siemens Immulite 2000/2500
	ng/ml	10.6	7.94	13.3	
	nmol/l	3.220	2.420	4.030	Roche Elecsys
	ng/ml	9.72	7.31	12.1	
	nmol/l	3.520	2.640	4.400	Roche Cobas 6000/8000
	ng/ml	10.6	7.97	13.2	
	nmol/l	3.410	2.560	4.260	Siemens Immulite 1000
	ng/ml	10.3	7.73	12.9	
	nmol/l	3.910	2.930	4.890	Diasorin Liaison
	ng/ml	11.8	8.85	14.8	
	nmol/l	3.450	2.590	4.310	Roche Cobas E411
	ng/ml	10.4	7.82	13.0	
	nmol/l	3.210	2.410	4.010	Abbott Architect
	ng/ml	9.69	7.28	12.1	
	nmol/l	2.740	2.060	3.420	Siemens Centaur XP/XPT/Classic
	ng/ml	8.27	6.20	10.3	
	nmol/l	3.250	2.440	4.060	Tosoh Series
	ng/ml	9.81	7.37	12.3	
	nmol/l	3.610	2.710	4.510	Fujirebio Lumipulse G Series
	ng/ml	10.9	8.18	13.6	
nmol/l	3.750	2.810	4.690	Diasorin Liaison XL	
ng/ml	11.3	8.48	14.1		
nmol/l	2.710	2.030	3.390	Siemens Atellica IM	
ng/ml	8.18	6.13	10.2		
CA 15-3	U/ml	83.5	66.8	100	Abbott Architect
	U/ml	66.4	53.1	79.7	BioMerieux Vidas
	U/ml	75.4	52.0	98.8	Siemens Centaur XP/XPT/Classic
	U/ml	64.5	51.6	77.4	Siemens Immulite 2000/2500
	U/ml	84.4	67.5	101	Siemens Immulite 1000
	U/ml	27.8	22.2	33.4	Beckman Dxl800
	U/ml	71.7	57.4	86.0	Roche Elecsys
	U/ml	84.5	67.6	101	Diasorin Liaison
	U/ml	26.8	21.4	32.2	Beckman Access
	U/ml	79.1	63.3	94.9	Tosoh Series
	U/ml	69.8	55.8	83.8	Vitros ECi
	U/ml	75.2	60.2	90.2	Roche Cobas 6000/8000
	U/ml	75.2	60.2	90.2	Roche Cobas E411
	U/ml	84.1	67.3	101	Fujirebio Lumipulse G Series
	U/ml	74.2	51.2	97.2	Siemens Centaur CP
	U/ml	27.8	22.2	33.4	Mindray CL-2000i

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Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
CA 15-3	U/ml	77.8	62.2	93.4	Diasorin Liaison XL
CA 19-9	U/ml	161	129	193	BioMerieux Vidas
	U/ml	183	126	240	Siemens Centaur XP/XPT/Classic
	U/ml	231	185	277	Siemens Immulite 2000/2500
	U/ml	200	160	240	Beckman Dxl800
	U/ml	111	88.8	133	Roche Elecsys
	U/ml	191	153	229	Diasorin Liaison
	U/ml	238	190	286	Beckman Access
	U/ml	82.9	66.3	99.0	Tosoh Series
	U/ml	229	183	275	Vitros Eci
	U/ml	401	321	481	Abbott Architect XR/XR2 kit
	U/ml	108	86.4	130	Roche Cobas 6000/8000
	U/ml	109	87.2	131	Roche Cobas E411
	U/ml	192	154	230	Fujirebio Lumipulse G Series
	U/ml	172	119	225	Siemens Centaur CP
	U/ml	100	80.0	120	Mindray CL-2000i
U/ml	220	176	264	Diasorin Liaison XL	
CA125	U/ml	220	176	264	Abbott Architect
	U/ml	177	142	212	BioMerieux Vidas
	U/ml	190	131	249	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	193	133	253	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	185	148	222	Siemens Immulite 2000/2500
	U/ml	208	166	250	Siemens Immulite 1000
	U/ml	157	126	188	Beckman Dxl800
	U/ml	160	128	192	Roche Elecsys
	U/ml	241	193	289	Diasorin Liaison
	U/ml	161	129	193	Beckman Access
	U/ml	280	224	336	Tosoh Series
	U/ml	171	137	205	Vitros Eci
	U/ml	162	130	194	Roche Cobas E411
	U/ml	160	128	192	Roche Cobas 6000/8000
	U/ml	160	128	192	Fujirebio Lumipulse G Series
	U/ml	198	137	259	Siemens Centaur CP CA125 II kit
	U/ml	321	257	385	Mindray CL-2000i
U/ml	220	176	264	Diasorin Liaison XL	
Carbamazepine	µmol/l	69.4	55.5	83.3	Abbott Architect
	µg/ml	16.4	13.1	19.7	
	µmol/l	70.3	43.6	97.0	Siemens Centaur XP/XPT/Classic
	µg/ml	16.6	10.3	22.9	
	µmol/l	68.2	54.6	81.8	Siemens Dimension
	µg/ml	16.1	12.9	19.3	
	µmol/l	62.5	50.0	75.0	Siemens Immulite 2000/2500
	µg/ml	14.8	11.8	17.8	
	µmol/l	62.8	50.2	75.4	Siemens Immulite 1000
µg/ml	14.8	11.9	17.7		
µmol/l	75.6	60.5	90.7	Roche Integra	
µg/ml	17.9	14.3	21.5		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Carbamazepine	µmol/l	63.5	50.8	76.2	Vitros	
	µg/ml	15.0	12.0	18.0		
	µmol/l	70.5	56.4	84.6	Roche Cobas 6000/8000	
	µg/ml	16.7	13.3	20.1		
	µmol/l	69.6	55.7	83.5	Beckman DxC	
	µg/ml	16.5	13.2	19.8		
	µmol/l	73.6	62.6	84.6	Beckman AU400/600/640/2700/5400	
	µg/ml	17.4	14.8	20.0		
	µmol/l	72.2	57.8	86.6	Gravimetric	
	µg/ml	17.1	13.7	20.5		
	Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	68.1	54.5	81.7	Abbott Architect
		ng/ml = µg/l	63.8	51.0	76.6	BioMerieux Vidas
ng/ml = µg/l		59.6	41.1	78.1	Siemens Centaur XP/XPT/Classic	
ng/ml = µg/l		55.4	44.3	66.5	CIS RIA Coated tube	
ng/ml = µg/l		77.5	62.0	93.0	Siemens Immulite 2000/2500	
ng/ml = µg/l		85.6	68.5	103	Siemens Immulite 1000	
ng/ml = µg/l		57.2	45.8	68.6	Beckman Dxl800	
ng/ml = µg/l		52.2	41.8	62.6	Roche Elecsys	
ng/ml = µg/l		55.2	44.2	66.2	Diasorin Liaison	
ng/ml = µg/l		60.2	48.2	72.2	Beckman Access	
ng/ml = µg/l		73.9	59.1	88.7	Tosoh Series	
ng/ml = µg/l		62.9	50.3	75.5	Vitros ECi	
ng/ml = µg/l		51.4	41.1	61.7	Roche Cobas 6000/8000	
ng/ml = µg/l		52.5	42.0	63.0	Roche Cobas E411	
ng/ml = µg/l		74.5	59.6	89.4	Fujirebio Lumipulse G Series	
ng/ml = µg/l		60.8	48.6	73.0	Boditech Med Inc i-CHROMA	
ng/ml = µg/l		59.6	41.1	78.1	Siemens Centaur CP	
ng/ml = µg/l		44.9	35.9	53.9	Mindray CL-2000i	
ng/ml = µg/l	65.4	52.3	78.5	Diasorin Liaison XL		
Cortisol	nmol/l	821	616	1026	Abbott Architect	
	µg/dl	29.6	22.2	37.0		
	nmol/l	929	697	1161	BioMerieux Vidas	
	µg/dl	33.4	25.1	41.7		
	nmol/l	1062	733	1391	Siemens Centaur XP/XPT/Classic	
	µg/dl	38.2	26.4	50.0		
	nmol/l	780	585	975	CIS RIA	
	µg/dl	28.1	21.1	35.1		
	nmol/l	907	680	1134	Siemens Immulite 2000/2500	
	µg/dl	32.7	24.5	40.9		
	nmol/l	892	669	1115	Siemens Immulite 1000	
	µg/dl	32.1	24.1	40.1		
	nmol/l	907	680	1134	Beckman Dxl800	
	µg/dl	32.7	24.5	40.9		
nmol/l	997	748	1246	Roche Elecsys		
µg/dl	35.9	26.9	44.9			

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	940	705	1175	Diasorin Liaison
	µg/dl	33.8	25.4	42.2	
	nmol/l	969	727	1211	Beckman Access
	µg/dl	34.9	26.2	43.6	
	nmol/l	1079	809	1349	Tosoh Series
	µg/dl	38.8	29.1	48.5	
	nmol/l	899	674	1124	Vitros ECI
	µg/dl	32.4	24.3	40.5	
	nmol/l	955	716	1194	Roche Cobas 6000/8000
	µg/dl	34.4	25.8	43.0	
	nmol/l	1050	788	1313	Roche Cobas E411
	µg/dl	37.8	28.4	47.2	
	nmol/l	1094	755	1433	Siemens Centaur CP
	µg/dl	39.4	27.2	51.6	
DHEA-S	nmol/l	1051	788	1314	Roche Cobas 4000/e411 Gen II
	µg/dl	37.8	28.4	47.2	
	nmol/l	972	729	1215	Roche Cobas 6000/8000 Gen II
	µg/dl	35.0	26.2	43.8	
	nmol/l	963	722	1204	Roche Elecsys Gen II
	µg/dl	34.7	26.0	43.4	
	nmol/l	1030	773	1288	Diasorin Liaison XL
	µg/dl	37.1	27.8	46.4	
	µmol/l	21.6	17.3	25.9	Abbott Architect
	µmol/l	17.3	13.8	20.8	Siemens Immulite 2000/2500
µmol/l	18.5	14.8	22.2	Siemens Immulite 1000	
µmol/l	17.5	14.0	21.0	Beckman Dxl800	
µmol/l	26.1	20.9	31.3	Roche Elecsys	
µmol/l	17.5	14.0	21.0	Beckman Access	
µmol/l	16.5	13.2	19.8	Diasorin Liaison	
µmol/l	17.8	10.7	24.9	Siemens Centaur XP/XPT/Classic	
µmol/l	26.1	20.9	31.3	Roche Cobas E411	
µmol/l	26.2	21.0	31.4	Roche Cobas 6000/8000	
µmol/l	18.4	11.0	25.8	Siemens Centaur CP	
Digoxin	nmol/l	4.24	3.39	5.09	Abbott Architect
	ng/ml	3.31	2.65	3.97	
	nmol/l	5.04	4.03	6.05	BioMerieux Vidas
	ng/ml	3.94	3.15	4.73	
	nmol/l	5.23	4.08	6.38	Siemens Centaur XP/XPT/Classic
	ng/ml	4.08	3.18	4.98	
	nmol/l	5.04	4.03	6.05	Siemens Dimension
	ng/ml	3.94	3.15	4.73	
	nmol/l	5.40	4.32	6.48	Siemens Immulite 2000/2500
	ng/ml	4.22	3.37	5.07	
nmol/l	5.96	4.77	7.15	Siemens Immulite 1000	
ng/ml	4.65	3.73	5.57		
nmol/l	4.92	3.94	5.90	Beckman Dxl800	
ng/ml	3.84	3.08	4.60		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	5.19	4.15	6.23	Roche Integra
	ng/ml	4.05	3.24	4.86	
	nmol/l	4.92	3.94	5.90	Beckman Access
	ng/ml	3.84	3.08	4.60	
	nmol/l	4.70	3.76	5.64	Vitros
	ng/ml	3.67	2.94	4.40	
	nmol/l	4.92	3.94	5.90	Roche Cobas 6000/8000
	ng/ml	3.84	3.08	4.60	
	nmol/l	5.25	4.20	6.30	Beckman AU400/600/640/2700/5400
	ng/ml	4.10	3.28	4.92	
	nmol/l	4.98	3.98	5.98	Siemens ADVIA 1200/1650/1800/2400
	ng/ml	3.89	3.11	4.67	
	nmol/l	5.33	4.26	6.40	Roche Cobas 4000/E411
	ng/ml	4.16	3.33	4.99	
Ethosuximide	nmol/l	5.12	4.10	6.14	Gravimetric
	ng/ml	4.00	3.20	4.80	
Ethosuximide	µmol/l	493	394	592	Gravimetric
	µg/ml	69.9	55.9	83.9	
Ferritin	ng/ml = µg/l	368	294	442	Abbott Architect
	ng/ml = µg/l	269	215	323	BioMerieux Vidas
	ng/ml = µg/l	311	249	373	Roche Tinaquant
	ng/ml = µg/l	315	246	384	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	300	240	360	Siemens Dimension
	ng/ml = µg/l	286	229	343	Siemens Immulite 2000/2500
	ng/ml = µg/l	243	194	292	Siemens Immulite 1000
	ng/ml = µg/l	232	186	278	Beckman DxI800
	ng/ml = µg/l	337	270	404	Roche Elecsys
	ng/ml = µg/l	342	274	410	Diasorin Liaison
	ng/ml = µg/l	335	268	402	Roche Modular E170
	ng/ml = µg/l	243	194	292	Beckman Access
	ng/ml = µg/l	228	182	274	Tosoh Series
	ng/ml = µg/l	208	166	250	Vitros ECi
	ng/ml = µg/l	277	222	332	Immunotech IRMA
	ng/ml = µg/l	333	266	400	Roche Cobas E411
	ng/ml = µg/l	266	213	319	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	199	159	239	Fujirebio Lumipulse G Series
	ng/ml = µg/l	297	232	362	Siemens Centaur CP
ng/ml = µg/l	350	280	420	Diasorin Liaison XL	
Folate	nmol/l	13.8	10.5	17.1	Abbott Architect
	ng/ml	6.09	4.63	7.55	
	nmol/l	25.6	15.4	35.8	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	11.3	6.78	15.8	
	nmol/l	12.2	9.27	15.1	Siemens Immulite 2000
	ng/ml	5.38	4.09	6.67	
	nmol/l	19.3	14.7	23.9	Beckman DxI800
ng/ml	8.51	6.48	10.5		



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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Folate	nmol/l	19.0	14.4	23.6	Beckman Access
	ng/ml	8.38	6.35	10.4	
	nmol/l	28.2	21.4	35.0	Tosoh Series
	ng/ml	12.4	9.44	15.4	
	nmol/l	11.7	8.89	14.5	Vitros ECI
	ng/ml	5.16	3.92	6.40	
	nmol/l	16.9	12.8	21.0	MP Biomedicals RIA
	ng/ml	7.45	5.64	9.26	
	nmol/l	13.0	9.88	16.1	Siemens Dimension
	ng/ml	5.73	4.36	7.10	
Free T3	pmol/l	22.9	17.2	28.6	Abbott Architect
	ng/dl	1.49	1.12	1.86	
	pg/ml	14.9	11.2	18.6	
	pmol/l	22.3	16.7	27.9	BioMerieux Vidas
	ng/dl	1.45	1.09	1.81	
	pg/ml	14.5	10.9	18.1	
	pmol/l	21.9	13.1	30.7	Siemens Centaur XP/XPT/Classic
	ng/dl	1.42	0.852	1.99	
	pg/ml	14.3	8.58	20.0	
	pmol/l	16.2	12.2	20.3	Siemens Immulite 2000/2500
	ng/dl	1.05	0.793	1.31	
	pg/ml	10.5	7.94	13.1	
	pmol/l	15.8	11.9	19.8	Siemens Immulite 1000
	ng/dl	1.03	0.774	1.29	
	pg/ml	10.3	7.75	12.9	
	pmol/l	17.4	13.1	21.8	Beckman Dxl800
	ng/dl	1.13	0.852	1.41	
	pg/ml	11.3	8.53	14.1	
	pmol/l	29.1	21.8	36.4	Roche Elecsys
	ng/dl	1.89	1.42	2.36	
	pg/ml	18.9	14.2	23.6	
	pmol/l	35.9	26.9	44.9	Diasorin Liaison
	ng/dl	2.33	1.75	2.91	
	pg/ml	23.4	17.5	29.3	
	pmol/l	19.0	14.3	23.8	Beckman Access
	ng/dl	1.24	0.930	1.55	
	pg/ml	12.4	9.31	15.5	
	pmol/l	33.3	25.0	41.6	Tosoh Series
	ng/dl	2.16	1.63	2.69	
	pg/ml	21.7	16.3	27.1	
pmol/l	35.0	26.3	43.8	Vitros ECI	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
pmol/l	28.2	21.2	35.3	Roche Cobas E411	
ng/dl	1.83	1.38	2.28		
pg/ml	18.4	13.8	23.0		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Free T3	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	21.5	12.9	30.1	Siemens Centaur CP	
		ng/dl	1.40	0.840		1.96
		pg/ml	14.0	8.40		19.6
	pmol/l	21.5	16.1	26.9	Mindray CL-2000i	
		ng/dl	1.40	1.05		1.75
		pg/ml	14.0	10.5		17.5
	pmol/l	35.9	26.9	44.9	Diasorin Liaison XL	
		ng/dl	2.33	1.75		2.91
		pg/ml	23.4	17.5		29.3
Free T4	pmol/l	41.3	31.0	51.6	Abbott Architect	
		ng/dl	3.22	2.42		4.02
		pg/ml	32.2	24.2		40.2
	pmol/l	41.3	31.0	51.6	Siemens Centaur XP/XPT/Classic	
		ng/dl	3.22	2.42		4.02
		pg/ml	32.2	24.2		40.2
	pmol/l	47.7	35.8	59.6	CIS RIA Coated tube	
		ng/dl	3.72	2.79		4.65
		pg/ml	37.2	27.9		46.5
	pmol/l	59.7	44.8	74.6	Siemens Immulite 2000/2500	
		ng/dl	4.66	3.49		5.83
		pg/ml	46.6	34.9		58.3
	pmol/l	60.1	45.1	75.1	Siemens Immulite 1000	
		ng/dl	4.69	3.52		5.86
		pg/ml	46.9	35.2		58.6
	pmol/l	48.4	36.3	60.5	Beckman Dxl800	
		ng/dl	3.78	2.83		4.73
		pg/ml	37.8	28.3		47.3
	pmol/l	60.0	45.0	75.0	Roche Elecsys	
		ng/dl	4.68	3.51		5.85
		pg/ml	46.8	35.1		58.5
	pmol/l	81.7	61.3	102	Diasorin Liaison	
		ng/dl	6.37	4.78		7.96
		pg/ml	63.7	47.8		79.6
pmol/l	45.1	33.8	56.4	Beckman Access		
	ng/dl	3.52	2.64		4.40	
	pg/ml	35.2	26.4		44.0	
pmol/l	60.4	45.3	75.5	Tosoh Series		
	ng/dl	4.71	3.53		5.89	
	pg/ml	47.1	35.3		58.9	
pmol/l	89.8	67.4	112	Vitros ECI		
	ng/dl	7.00	5.26		8.74	
	pg/ml	70.0	52.6		87.4	

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	57.9	43.4	72.4	Roche Cobas 6000/8000
	ng/dl	4.52	3.39	5.65	
	pg/ml	45.2	33.9	56.5	
	pmol/l	47.0	35.3	58.8	Immunotech IRMA
	ng/dl	3.67	2.75	4.59	
	pg/ml	36.7	27.5	45.9	
	pmol/l	59.1	44.3	73.9	Roche Cobas E411
	ng/dl	4.61	3.46	5.76	
	pg/ml	46.1	34.6	57.6	
	pmol/l	62.3	46.7	77.9	Biomerieux Vidas FT4N Kit
	ng/dl	4.86	3.64	6.08	
	pg/ml	48.6	36.4	60.8	
	pmol/l	44.1	33.1	55.1	Siemens Centaur CP
	ng/dl	3.44	2.58	4.30	
	pg/ml	34.4	25.8	43.0	
	pmol/l	44.1	33.1	55.1	Mindray CL-2000i
	ng/dl	3.44	2.58	4.30	
	pg/ml	34.4	25.8	43.0	
FSH	pmol/l	89.0	66.8	111	Diasorin Liaison XL
	ng/dl	6.94	5.21	8.67	
	pg/ml	69.4	52.1	86.7	
	mU/ml	54.4	43.5	65.3	Abbott Architect
	mU/ml	73.1	58.5	87.7	BioMerieux Vidas
	mU/ml	77.5	60.5	94.5	Siemens Centaur XP/XPT/Classic
	mU/ml	60.5	48.4	72.6	Siemens Immulite 2000/2500
	mU/ml	59.0	47.2	70.8	Siemens Immulite 1000
	mU/ml	62.7	50.2	75.2	Beckman DxI800
	mU/ml	56.7	45.4	68.0	Roche/BM Elecsys
	mU/ml	75.5	60.4	90.6	Diasorin Liaison
	mU/ml	62.3	49.8	74.8	Beckman Access
	mU/ml	56.9	45.5	68.3	Tosoh Series
	mU/ml	45.6	36.5	54.7	Vitros ECi
	mU/ml	58.7	47.0	70.4	Roche Cobas E411
	mU/ml	55.7	44.6	66.8	Roche Cobas 6000/8000
	mU/ml	48.5	38.8	58.2	Immunotech IRMA
	mU/ml	48.9	39.1	58.7	Fujirebio Lumipulse G Series
mU/ml	68.1	53.1	83.1	Siemens Centaur CP	
mU/ml	84.4	67.5	101	Diasorin Liaison XL	
Gentamicin	µmol/l	11.0	8.80	13.2	Roche Integra
	µg/ml	5.26	4.21	6.31	
	µmol/l	11.6	9.28	13.9	Siemens Dimension Vista
	µg/ml	5.54	4.44	6.64	
	µmol/l	9.55	7.64	11.5	Roche Cobas 6000/8000
	µg/ml	4.56	3.65	5.47	
µmol/l	11.7	9.36	14.0	Gravimetric	
µg/ml	5.59	4.47	6.69		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Growth Hormone (GH)	µU/ml	43.8	35.0	52.6	CIS IRMA
	ng/ml	14.6	11.7	17.5	
	µU/ml	43.8	35.0	52.6	Siemens Immulite 2000/2500
	ng/ml	14.6	11.7	17.5	
	µU/ml	43.5	34.8	52.2	Siemens Immulite 1000
	ng/ml	14.5	11.6	17.4	
	µU/ml	36.9	29.5	44.3	Beckman Dxl800
	ng/ml	12.3	9.82	14.8	
	µU/ml	38.3	30.6	46.0	Beckman Access
	ng/ml	12.8	10.2	15.4	
	µU/ml	45.8	36.6	55.0	Tosoh Series
	ng/ml	15.3	12.2	18.4	
	µU/ml	40.4	32.3	48.5	Diasorin Liaison
	ng/ml	13.5	10.8	16.2	
	µU/ml	41.5	33.2	49.8	Roche Cobas E411
	ng/ml	13.8	11.1	16.5	
µU/ml	39.1	31.3	46.9	Roche Cobas 6000/8000	
ng/ml	13.0	10.4	15.6		
µU/ml	41.8	33.4	50.2	IDS iSYS	
ng/ml	13.9	11.1	16.7		
µU/ml	38.5	30.8	46.2	Diasorin Liaison XL	
ng/ml	12.8	10.3	15.3		
Immunoglobulin E	KIU/I = IU/ml	537	430	644	Abbott Architect
	KIU/I = IU/ml	493	394	592	Beckman Immage
	KIU/I = IU/ml	554	443	665	BioMerieux Vidas
	KIU/I = IU/ml	605	363	847	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	570	456	684	Siemens Immulite 2000/2500
	KIU/I = IU/ml	601	481	721	Siemens Immulite 1000
	KIU/I = IU/ml	574	459	689	Roche Elecsys
	KIU/I = IU/ml	549	439	659	Pharmacia Unicap
	KIU/I = IU/ml	554	443	665	Tosoh Series
	KIU/I = IU/ml	600	480	720	Roche Cobas E411
	KIU/I = IU/ml	611	489	733	Roche Cobas 6000/8000
	KIU/I = IU/ml	483	386	580	Fujirebio Lumipulse G Series
KIU/I = IU/ml	578	347	809	Siemens Centaur CP	
Insulin	mU/l	24.8	18.6	31.0	Siemens Centaur XP/XPT/Classic
	µU/ml	24.8	18.6	31.0	
	mU/l	11.6	8.70	14.5	Siemens Immulite 1000
	µU/ml	11.6	8.70	14.5	
	mU/l	11.1	8.33	13.9	Siemens Immulite 2000
	µU/ml	11.1	8.33	13.9	
	mU/l	32.9	24.7	41.1	Roche Elecsys
	µU/ml	32.9	24.7	41.1	
	mU/l	26.4	19.8	33.0	Beckman Access
	µU/ml	26.4	19.8	33.0	
mU/l	25.9	19.4	32.4	Abbott Architect	
µU/ml	25.9	19.4	32.4		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Insulin	mU/l	49.7	37.3	62.1	Tosoh Series
	µU/ml	49.7	37.3	62.1	
	mU/l	33.4	25.1	41.8	Roche Cobas E411
	µU/ml	33.4	25.1	41.8	
	mU/l	25.1	18.8	31.4	Beckman Dxl 600/800
	µU/ml	25.1	18.8	31.4	
	mU/l	35.5	26.6	44.4	Diasorin Liaison
	µU/ml	35.5	26.6	44.4	
	mU/l	33.8	25.4	42.3	Roche Cobas 6000/8000
	µU/ml	33.8	25.4	42.3	
	mU/l	30.1	22.6	37.6	Fujirebio Lumipulse G Series
	µU/ml	30.1	22.6	37.6	
	mU/l	26.8	20.1	33.5	Siemens Centaur CP
	µU/ml	26.8	20.1	33.5	
Luteinising Hormone (LH)	mU/l	35.8	26.9	44.8	Diasorin Liaison XL
	µU/ml	35.8	26.9	44.8	
	mU/l	26.9	20.2	33.6	Siemens Atellica IM
	µU/ml	26.9	20.2	33.6	
	mU/ml	40.8	32.6	49.0	Abbott Architect
	mU/ml	50.6	40.5	60.7	BioMerieux Vidas
	mU/ml	46.5	35.8	57.2	Siemens Centaur XP/XPT/Classic
	mU/ml	75.7	60.6	90.8	Siemens Immulite 2000
	mU/ml	77.5	62.0	93.0	Siemens Immulite 1000
	mU/ml	38.2	30.6	45.8	Beckman Dxl800
	mU/ml	53.0	42.4	63.6	Roche Elecsys
	mU/ml	62.6	50.1	75.1	Diasorin Liaison
	mU/ml	39.2	31.4	47.0	Beckman Access
	mU/ml	45.6	36.5	54.7	Tosoh Series
mU/ml	52.8	42.2	63.4	Vitros ECi	
mU/ml	52.7	42.2	63.2	Roche Cobas E411	
mU/ml	52.4	41.9	62.9	Roche Cobas 6000/8000	
mU/ml	47.0	37.6	56.4	Fujirebio Lumipulse G Series	
mU/ml	50.5	38.9	62.1	Siemens Centaur CP	
mU/ml	56.9	45.5	68.3	Mindray CL-2000i	
mU/ml	64.6	51.7	77.5	Diasorin Liaison XL	
Oestradiol	pmol/l	1436	1149	1723	Abbott Architect
	pg/ml	391	313	469	
	pmol/l	3146	2517	3775	BioMerieux Vidas
	pg/ml	856	685	1027	
	pmol/l	2790	1730	3850	Siemens Centaur XP/XPT/Classic
	pg/ml	759	471	1047	
	pmol/l	2508	2006	3010	Siemens Immulite 2000/2500
	pg/ml	682	546	818	
pmol/l	2495	1996	2994	Siemens Immulite 1000	
pg/ml	679	543	815		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	2204	1763	2645	Beckman DxI800
	pg/ml	599	480	718	
	pmol/l	1663	1330	1996	Roche Elecsys (Estradiol II)
	pg/ml	452	362	542	
	pmol/l	2394	1915	2873	Beckman Access
	pg/ml	651	521	781	
	pmol/l	2152	1722	2582	Tosoh (E2)
	pg/ml	585	468	702	
	pmol/l	2655	2124	3186	Vitros ECI
	pg/ml	722	578	866	
	pmol/l	1685	1348	2022	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	458	367	549	
	pmol/l	1704	1363	2045	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	463	371	555	
	pmol/l	2746	1703	3789	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	747	463	1031	
	pmol/l	2068	1654	2482	Tosoh (iE2-hsE2)
	pg/ml	562	450	674	
	pmol/l	2894	1794	3994	Siemens Centaur CP
	pg/ml	787	488	1086	
pmol/l	2919	1810	4028	Siemens Centaur CP Enhanced (eE2)	
pg/ml	794	492	1096		
pmol/l	2309	1847	2771	Fujirebio Lumipulse G Series	
pg/ml	628	502	754		
pmol/l	1702	1362	2042	Roche Cobas 6000/8000 (Estradiol III)	
pg/ml	463	370	556		
pmol/l	1699	1359	2039	Roche Elecsys (Estradiol III)	
pg/ml	462	370	554		
pmol/l	1690	1352	2028	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	460	368	552		
pmol/l	1344	1075	1613	Diasorin Liaison XL	
pg/ml	366	292	440		
Paracetamol	mmol/l	0.463	0.368	0.552	Roche Integra
	mg/l	69.6	55.7	83.5	
	mmol/l	0.500	0.400	0.600	Abbott Architect
	mg/l	75.7	60.5	90.9	
	mmol/l	0.499	0.400	0.600	Roche Cobas 6000/8000
	mg/l	75.7	60.5	90.9	
mmol/l	0.529	0.420	0.630	Gravimetric	
mg/l	80.0	63.5	95.3		
Phenobarbital	µmol/l	123	98.4	148	Abbott Architect
	µg/ml	28.5	22.8	34.2	
	µmol/l	121	96.8	145	Roche Cobas 6000/8000
	µg/ml	28.1	22.5	33.7	
µmol/l	122	97.6	146	Siemens Immulite 2000/2500	
µg/ml	28.3	22.6	34.0		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range						
Analyte	unit	Target	low	high	methods	
Phenobarbital	µmol/l	117	93.6	140	Beckman AU400/600/640/2700/5400	
	µg/ml	27.1	21.7	32.5		
	µmol/l	161	117	205	Siemens Centaur XP/XPT/Classic	
	µg/ml	37.4	27.3	47.5		
	µmol/l	116	92.8	139	Roche Integra	
	µg/ml	26.9	21.5	32.3		
	µmol/l	122	97.6	146	Siemens Immulite 1000	
	µg/ml	28.3	22.6	34.0		
	µmol/l	113	90.4	136	Beckman DxC	
	µg/ml	26.2	21.0	31.4		
	µmol/l	121	96.8	145	Gravimetric	
	µg/ml	28.1	22.5	33.6		
	Phenytoin	µmol/l	93.5	74.8	112	Abbott Architect
		µg/ml	23.6	18.9	28.3	
µmol/l		116	90.5	142	Siemens Centaur XP/XPT/Classic	
µg/ml		29.3	22.9	35.7		
µmol/l		107	85.6	128	Siemens Dimension	
µg/ml		27.0	21.6	32.4		
µmol/l		87.9	70.3	105	Siemens Immulite 2000/2500	
µg/ml		22.2	17.8	26.6		
µmol/l		90.1	72.1	108	Siemens Immulite 1000	
µg/ml		22.8	18.2	27.4		
µmol/l		92.9	74.3	111	Roche Integra	
µg/ml		23.5	18.8	28.2		
µmol/l		96.8	77.4	116	Vitros	
µg/ml		24.4	19.5	29.3		
µmol/l		92.7	74.2	111	Roche Cobas 6000/8000	
µg/ml		23.4	18.7	28.1		
µmol/l		90.6	72.5	109	Beckman DxC	
µg/ml		22.9	18.3	27.5		
µmol/l	99.8	79.8	120	Gravimetric		
µg/ml	25.2	20.1	30.3			
Primidone	µmol/l	32.7	26.2	39.2	Gravimetric	
	µg/ml	7.14	5.72	8.56		
Progesterone	nmol/l	90.7	72.6	109	Abbott Architect	
	ng/ml	28.4	22.7	34.1		
	nmol/l	150	120	180	BioMerieux Vidas	
	ng/ml	47.0	37.6	56.4		
	nmol/l	74.5	52.9	96.1	Siemens Centaur XP/XPT/Classic	
	ng/ml	23.3	16.5	30.1		
	nmol/l	69.3	55.4	83.2	Siemens Immulite 2000/2500	
	ng/ml	21.7	17.3	26.1		
	nmol/l	80.2	64.2	96.2	Siemens Immulite 1000	
	ng/ml	25.1	20.1	30.1		
	nmol/l	100	80.0	120	Beckman Dxl Prog Cal 33555	
	ng/ml	31.3	25.0	37.6		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	103	82.4	124	Roche Elecsys (Prog. II)
	ng/ml	32.2	25.8	38.6	
	nmol/l	100	80.0	120	Beckman Access Prog Cal 33555
	ng/ml	31.3	25.0	37.6	
	nmol/l	114	91.2	137	Tosoh Series
	ng/ml	35.7	28.5	42.9	
	nmol/l	107	85.6	128	Vitros ECI
	ng/ml	33.5	26.8	40.2	
	nmol/l	103	82.4	124	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	32.2	25.8	38.6	
	nmol/l	106	84.8	127	Roche Cobas 6000/8000 (Prog. II)
	ng/ml	33.2	26.5	39.9	
	nmol/l	86.6	69.3	104	Diasorin Liaison
	ng/ml	27.1	21.7	32.5	
	nmol/l	99.0	79.2	119	Beckman Dxl Prog DE Cal A80773
	ng/ml	31.0	24.8	37.2	
	nmol/l	101	80.8	121	Beckman Access Prog DE Cal A80773
	ng/ml	31.6	25.3	37.9	
	nmol/l	77.5	55.0	100	Siemens Centaur CP
	ng/ml	24.3	17.3	31.3	
nmol/l	106	84.8	127	Mindray CL-2000i	
ng/ml	33.2	26.5	39.9		
nmol/l	103	82.4	124	Fujirebio Lumipulse G Series	
ng/ml	32.2	25.8	38.6		
nmol/l	105	84.0	126	Roche Cobas 6000/8000 (Prog. III)	
ng/ml	32.9	26.3	39.5		
nmol/l	104	83.2	125	Roche Elecsys (Prog. III)	
ng/ml	32.6	26.0	39.2		
nmol/l	104	83.2	125	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	32.6	26.0	39.2		
Prolactin	µU/ml	1108	886	1330	Abbott Architect
	µU/ml	1290	1032	1548	BioMerieux Vidas
	µU/ml	914	686	1142	Siemens Centaur XP/XPT/Classic
	µU/ml	948	758	1138	Siemens Immulite 2000/2500
	µU/ml	1003	802	1204	Siemens Immulite 1000
	µU/ml	856	685	1027	Beckman Dxl800
	µU/ml	1029	823	1235	Roche Elecsys
	µU/ml	1100	880	1320	Diasorin Liaison
	µU/ml	879	703	1055	Beckman Access
	µU/ml	1005	804	1206	Tosoh Series
	µU/ml	917	734	1100	Vitros ECI
	µU/ml	1024	819	1229	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1011	809	1213	Immunotech IRMA
	µU/ml	1061	849	1273	Roche Cobas E411
	µU/ml	1019	815	1223	Roche Cobas 6000/8000
	µU/ml	1243	994	1492	Fujirebio Lumipulse G Series



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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	943	707	1179	Siemens Centaur CP
	µU/ml	1230	984	1476	Mindray CL-2000i
	µU/ml	1146	917	1375	Diasorin Liaison XL
PSA Free	ng/ml = µg/l	28.5	21.4	35.6	Abbott Architect
	ng/ml = µg/l	21.1	15.8	26.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	22.4	16.8	28.0	Siemens Immulite 2000/2500
	ng/ml = µg/l	19.2	14.4	24.0	Siemens Immulite 1000
	ng/ml = µg/l	25.1	18.8	31.4	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	17.1	12.8	21.4	Roche Elecsys
	ng/ml = µg/l	13.9	10.4	17.4	Diasorin Liaison
	ng/ml = µg/l	25.7	19.3	32.1	Beckman Access standardised to Hybritech
	ng/ml = µg/l	16.6	12.5	20.8	Tosoh Series
	ng/ml = µg/l	17.3	13.0	21.6	Roche Cobas E411
	ng/ml = µg/l	17.2	12.9	21.5	Roche Cobas 6000/8000
	ng/ml = µg/l	25.3	19.0	31.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	29.0	21.8	36.3	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	9.02	6.77	11.3	Ortho Vitros 3600/5600/ECi PSA II
ng/ml = µg/l	18.5	13.9	23.1	Fujirebio Lumipulse G Series	
ng/ml = µg/l	12.9	9.68	16.1	Diasorin Liaison XL	
PSA Total	ng/ml = µg/l	27.2	20.4	34.0	Abbott Architect
	ng/ml = µg/l	31.7	23.8	39.6	BioMerieux Vidas
	ng/ml = µg/l	31.4	23.6	39.3	bioMerieux VIDAS TPSA
	ng/ml = µg/l	31.2	23.4	39.0	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	13.2	9.90	16.5	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	12.2	9.15	15.3	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	13.6	10.2	17.0	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	39.3	29.5	49.1	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	34.3	25.7	42.9	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	36.8	27.6	46.0	Roche Elecsys
	ng/ml = µg/l	19.2	14.4	24.0	Diasorin Liaison
	ng/ml = µg/l	40.0	30.0	50.0	Beckman Access standardised to Hybritech
	ng/ml = µg/l	40.0	30.0	50.0	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	23.2	17.4	29.0	Tosoh Series
	ng/ml = µg/l	36.1	27.1	45.1	Vitros ECi
	ng/ml = µg/l	34.6	26.0	43.3	CIS RIA Coated tube
	ng/ml = µg/l	36.6	27.5	45.8	Roche Cobas E411
	ng/ml = µg/l	36.4	27.3	45.5	Roche Cobas 6000/8000
	ng/ml = µg/l	25.1	18.8	31.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	36.5	27.4	45.6	Ortho Vitros 3600/5600/ECi PSA II
ng/ml = µg/l	32.2	24.2	40.2	Siemens Centaur CP	
ng/ml = µg/l	20.4	15.3	25.5	Diasorin Liaison XL	
Salicylic Acid	mmol/l	2.73	2.18	3.28	Roche Integra
	mg/dl	37.7	30.1	45.3	
	mmol/l	2.90	2.32	3.48	Abbott Architect
	mg/dl	40.1	32.0	48.2	
	mmol/l	2.88	2.30	3.46	Gravimetric
mg/dl	39.8	31.8	47.8		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
SHBG	nmol/l	38.6	30.9	46.3	Siemens Immulite 1000
	nmol/l	44.3	35.4	53.2	Siemens Immulite 2000/2500
	nmol/l	45.6	36.5	54.7	Roche Elecsys
	nmol/l	42.6	34.1	51.1	Abbott Architect
	nmol/l	44.5	35.6	53.4	Roche Cobas E411
	nmol/l	44.5	35.6	53.4	Roche Cobas 6000/8000
	nmol/l	43.7	35.0	52.4	Beckman Access
	nmol/l	41.6	33.3	49.9	Beckman Dxl800
T Uptake	%U	38.7	31.0	46.4	Siemens Immulite 2000
Testosterone	nmol/l	27.7	22.2	33.2	Abbott Architect
	ng/ml	7.98	6.39	9.57	
	ng/dl	798	639	957	
	nmol/l	22.3	17.8	26.8	BioMerieux Vidas
	ng/ml	6.42	5.13	7.71	
	ng/dl	642	513	771	
	nmol/l	23.8	17.4	30.2	Siemens Centaur XP/XPT/Classic
	ng/ml	6.85	5.00	8.70	
	ng/dl	685	500	870	
	nmol/l	32.9	26.3	39.5	Siemens Immulite 2000/2500
	ng/ml	9.48	7.57	11.4	
	ng/dl	948	757	1139	
	nmol/l	47.3	37.8	56.8	Siemens Immulite 1000
	ng/ml	13.6	10.9	16.3	
	ng/dl	1362	1089	1635	
	nmol/l	23.2	18.6	27.8	Beckman Dxl800
	ng/ml	6.68	5.36	8.00	
	ng/dl	668	536	800	
	nmol/l	25.9	20.7	31.1	Beckman Access
	ng/ml	7.46	5.96	8.96	
	ng/dl	746	596	896	
	nmol/l	40.1	32.1	48.1	Tosoh Series
	ng/ml	11.5	9.24	13.8	
	ng/dl	1155	924	1386	
nmol/l	40.2	32.2	48.2	Vitros ECi	
ng/ml	11.6	9.27	13.9		
ng/dl	1158	927	1389		
nmol/l	28.6	22.9	34.3	Roche Cobas 6000 Test 2	
ng/ml	8.24	6.60	9.88		
ng/dl	824	660	988		
nmol/l	28.5	22.8	34.2	Roche Elecsys Test II	
ng/ml	8.21	6.57	9.85		
ng/dl	821	657	985		
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		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	27.8	22.2	33.4	Abbott Architect 2nd Generation
	ng/ml	8.01	6.39	9.63	
	ng/dl	801	639	963	
	nmol/l	23.0	16.8	29.2	Siemens Centaur CP
	ng/ml	6.62	4.83	8.41	
	ng/dl	662	483	841	
	nmol/l	22.5	18.0	27.0	BioMerieux Vidas Testosterone II
	ng/ml	6.48	5.18	7.78	
	ng/dl	648	518	778	
	nmol/l	39.6	31.7	47.5	Mindray CL-2000i
	ng/ml	11.4	9.13	13.7	
	ng/dl	1140	913	1367	
nmol/l	24.8	18.1	31.5	Siemens Centaur TST II	
ng/ml	7.14	5.21	9.07		
ng/dl	714	521	907		
nmol/l	12.0	9.60	14.4	Diasorin Liaison XL	
ng/ml	3.46	2.76	4.16		
ng/dl	346	276	416		
Theophylline	µmol/l	148	118	178	Siemens Centaur XP/XPT/Classic
	µg/ml	26.7	21.4	32.0	
	µmol/l	165	132	198	Roche Integra
	µg/ml	29.7	23.8	35.6	
	µmol/l	206	165	247	Vitros
	µg/ml	37.1	29.7	44.5	
	µmol/l	144	115	173	Abbott Architect
	µg/ml	25.9	20.7	31.1	
	µmol/l	157	126	188	Roche Cobas 6000/8000
	µg/ml	28.3	22.7	33.9	
	µmol/l	158	126	190	Beckman DxC
	µg/ml	28.5	22.7	34.3	
µmol/l	145	116	174	Beckman AU400/600/640/2700/5400	
µg/ml	26.1	20.9	31.3		
µmol/l	166	133	199	Gravimetric	
µg/ml	29.9	24.0	35.9		
Thyroglobulin	ng/ml	22.3	16.7	27.9	Siemens Immulite 1000
	ng/ml	26.5	19.9	33.1	Siemens Immulite 2000
	ng/ml	59.3	44.5	74.1	Roche Elecsys
	ng/ml	50.1	37.6	62.6	Beckman Dxl800
	ng/ml	58.1	43.6	72.6	Roche Cobas E411
	ng/ml	57.6	43.2	72.0	Roche Cobas 6000/8000
	ng/ml	52.4	39.3	65.5	Beckman Access
	ng/ml	57.8	43.4	72.3	Abbott Architect 2000i
	ng/ml	53.2	39.9	66.5	Tosoh Series
	ng/ml	57.3	43.0	71.6	Roche Cobas 6000 TGII
	ng/ml	55.3	41.5	69.1	Roche Elecsys TGII
	ng/ml	57.9	43.4	72.4	Roche Cobas 4000/E411 TGII

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Thyroglobulin	ng/ml	27.3	20.5	34.1	Diasorin Liaison XL
Thyroid Stimulating Hormone	µU/ml = mIU/l	17.5	14.0	21.0	Abbott Architect
	µU/ml = mIU/l	21.5	17.2	25.8	bioMerieux VIDAS TSH
	µU/ml = mIU/l	20.9	16.7	25.1	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	22.5	15.3	29.7	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	22.4	17.9	26.9	CIS IRMA
	µU/ml = mIU/l	21.8	14.8	28.8	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	20.5	16.4	24.6	Siemens Dimension
	µU/ml = mIU/l	21.6	17.3	25.9	Siemens Immulite 2000/2500
	µU/ml = mIU/l	22.0	17.6	26.4	Siemens Immulite 1000
	µU/ml = mIU/l	19.4	15.5	23.3	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	19.0	15.2	22.8	Beckman Dxl800
	µU/ml = mIU/l	20.3	16.2	24.4	Roche Elecsys
	µU/ml = mIU/l	25.9	20.7	31.1	Diasorin Liaison
	µU/ml = mIU/l	18.8	15.0	22.6	Beckman Access Fast TSH
	µU/ml = mIU/l	19.4	15.5	23.3	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	22.5	18.0	27.0	Tosoh Series
	µU/ml = mIU/l	28.5	22.8	34.2	Vitros ECi
	µU/ml = mIU/l	20.6	16.5	24.7	Roche Cobas E411
	µU/ml = mIU/l	20.7	16.6	24.8	Roche Cobas 6000/8000
	µU/ml = mIU/l	18.7	15.0	22.4	Beckman Dxl800 Hyper TSH
µU/ml = mIU/l	22.6	15.4	29.8	Siemens Centaur XP/XPT/Classic TSH3-Ultra	
µU/ml = mIU/l	21.3	14.5	28.1	Siemens Centaur CP	
µU/ml = mIU/l	22.7	15.4	30.0	Siemens Centaur CP TSH3-Ultra	
µU/ml = mIU/l	25.9	20.7	31.1	Mindray CL-2000i	
µU/ml = mIU/l	19.0	15.2	22.8	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	26.4	21.1	31.7	Diasorin Liaison XL	
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	
Total Beta hCG	mU/ml=IU/l	159	127	191	Abbott Architect
	IU/ml	0.159	0.127	0.191	
	mU/ml=IU/l	692	554	830	BioMerieux Vidas
	IU/ml	0.692	0.554	0.830	
	mU/ml=IU/l	118	70.8	165	Siemens Centaur XP/XPT/Classic
	IU/ml	0.118	0.071	0.165	
	mU/ml=IU/l	783	626	940	Siemens Dimension
	IU/ml	0.783	0.626	0.940	
	mU/ml=IU/l	1076	861	1291	Siemens Immulite 2000
	IU/ml	1.08	0.861	1.30	
	mU/ml=IU/l	950	760	1140	Siemens Immulite 1000
	IU/ml	0.950	0.760	1.14	
	mU/ml=IU/l	146	117	175	Beckman Dxl800
	IU/ml	0.146	0.117	0.175	
	mU/ml=IU/l	158	126	190	Diasorin Liaison
	IU/ml	0.158	0.126	0.190	
mU/ml=IU/l	358	286	430	Roche Cobas Core EIA	
IU/ml	0.358	0.286	0.430		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	135	108	162	Beckman Access
	IU/ml	0.135	0.108	0.162	
	mU/ml=IU/l	687	550	824	Tosoh Series
	IU/ml	0.687	0.550	0.824	
	mU/ml=IU/l	733	586	880	Vitros Eci
	IU/ml	0.733	0.586	0.880	
	mU/ml=IU/l	248	198	298	Roche STAT (Intact)
	IU/ml	0.248	0.198	0.298	
	mU/ml=IU/l	361	289	433	Roche hCG+Beta
	IU/ml	0.361	0.289	0.433	
	mU/ml=IU/l	129	103	155	Fujirebio Lumipulse G Series
	IU/ml	0.129	0.103	0.155	
	mU/ml=IU/l	141	113	169	Beckman Access Total BhCG (5th IS)
	IU/ml	0.141	0.113	0.169	
	mU/ml=IU/l	146	117	175	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.146	0.117	0.175	
mU/ml=IU/l	118	70.8	165	Siemens Centaur CP	
IU/ml	0.118	0.071	0.165		
mU/ml=IU/l	168	134	202	Diasorin Liaison XL	
IU/ml	0.168	0.134	0.202		
Total T3	nmol/l	5.23	3.92	6.54	Abbott Architect
	ng/ml	3.40	2.55	4.25	
	ng/dl	340	255	425	
	nmol/l	6.04	4.53	7.55	BioMerieux Vidas
	ng/ml	3.93	2.95	4.91	
	ng/dl	393	295	491	
	nmol/l	7.09	5.32	8.86	Siemens Centaur XP/XPT/Classic
	ng/ml	4.62	3.47	5.77	
	ng/dl	462	347	577	
	nmol/l	6.75	5.06	8.44	Siemens Immulite 2000/2500
	ng/ml	4.39	3.29	5.49	
	ng/dl	439	329	549	
	nmol/l	6.95	5.21	8.69	Siemens Immulite 1000
	ng/ml	4.52	3.39	5.65	
	ng/dl	452	339	565	
	nmol/l	5.94	4.46	7.43	Beckman Dxl800
	ng/ml	3.87	2.90	4.84	
	ng/dl	387	290	484	
	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	6.09	4.57	7.61	Beckman Access
	ng/ml	3.96	2.98	4.94	
	ng/dl	396	298	494	
nmol/l	6.23	4.67	7.79	Tosoh Series	
ng/ml	4.06	3.04	5.08		
ng/dl	406	304	508		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	7.20	5.40	9.00	Vitros ECI
	ng/ml	4.69	3.52	5.86	
	ng/dl	469	352	586	
	nmol/l	4.99	3.74	6.24	CIS RIA Coated tube
	ng/ml	3.25	2.43	4.07	
	ng/dl	325	243	407	
	nmol/l	6.90	5.18	8.63	Roche Cobas E411
	ng/ml	4.49	3.37	5.61	
	ng/dl	449	337	561	
	nmol/l	6.42	4.82	8.03	Roche Cobas 6000/8000
	ng/ml	4.18	3.14	5.22	
	ng/dl	418	314	522	
	nmol/l	6.07	4.55	7.59	ELISA
	ng/ml	3.95	2.96	4.94	
	ng/dl	395	296	494	
nmol/l	7.67	5.75	9.59	Siemens Centaur CP	
ng/ml	4.99	3.74	6.24		
ng/dl	499	374	624		
nmol/l	4.99	3.74	6.24	Diasorin Liaison XL	
ng/ml	3.25	2.43	4.07		
ng/dl	325	243	407		
Total T4	nmol/l	169	127	211	Abbott Architect
	µg/dl	13.2	9.91	16.5	
	ng/ml	132	99.1	165	
	nmol/l	201	151	251	BioMerieux Vidas
	µg/dl	15.7	11.8	19.6	
	ng/ml	157	118	196	
	nmol/l	189	132	246	Siemens Centaur XP/XPT/Classic
	µg/dl	14.7	10.3	19.1	
	ng/ml	147	103	191	
	nmol/l	178	134	223	Siemens Immulite 2000/2500
	µg/dl	13.9	10.5	17.3	
	ng/ml	139	105	173	
	nmol/l	179	134	224	Siemens Immulite 1000
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
	nmol/l	179	134	224	Beckman Dxl800
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
nmol/l	168	126	210	Roche Elecsys	
µg/dl	13.1	9.83	16.4		
ng/ml	131	98.3	164		
nmol/l	182	137	228	Beckman Access	
µg/dl	14.2	10.7	17.7		
ng/ml	142	107	177		

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	166	125	208	Tosoh Series
	µg/dl	12.9	9.75	16.1	
	ng/ml	129	97.5	161	
	nmol/l	180	135	225	Vitros ECI
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
	nmol/l	152	114	190	MP Biomedicals RIA
	µg/dl	11.9	8.89	14.9	
	ng/ml	119	88.9	149	
	nmol/l	193	145	241	CIS RIA Coated tube
	µg/dl	15.1	11.3	18.9	
	ng/ml	151	113	189	
	nmol/l	167	125	209	Roche Cobas E411
	µg/dl	13.0	9.75	16.3	
	ng/ml	130	97.5	163	
	nmol/l	167	125	209	Roche Cobas 6000/8000
	µg/dl	13.0	9.75	16.3	
	ng/ml	130	97.5	163	
nmol/l	128	96.0	160	Immunotech IRMA	
µg/dl	9.98	7.49	12.5		
ng/ml	100	74.9	125		
nmol/l	177	133	221	ELISA	
µg/dl	13.8	10.4	17.2		
ng/ml	138	104	172		
nmol/l	251	188	314	Boditech Med Inc i-CHROMA	
µg/dl	19.6	14.7	24.5		
ng/ml	196	147	245		
nmol/l	190	133	247	Siemens Centaur CP	
µg/dl	14.8	10.4	19.2		
ng/ml	148	104	192		
nmol/l	137	103	171	Diasorin Liaison XL	
µg/dl	10.7	8.03	13.4		
ng/ml	107	80.3	134		
Valproic Acid	µmol/l	925	740	1110	Abbott Architect
	µg/ml	133	107	159	
	µmol/l	978	782	1174	Siemens Centaur XP/XPT/Classic
	µg/ml	141	113	169	
	µmol/l	913	730	1096	Siemens Dimension
	µg/ml	132	105	159	
	µmol/l	987	790	1184	Siemens Immulite 2000/2500
	µg/ml	142	114	170	
	µmol/l	1001	801	1201	Siemens Immulite 1000
	µg/ml	144	116	172	
	µmol/l	914	731	1097	Roche Integra
	µg/ml	132	105	159	

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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	997	798	1196	Roche Cobas E411
	µg/ml	144	115	173	
	µmol/l	948	758	1138	Roche Cobas 6000/8000
	µg/ml	137	109	165	
	µmol/l	869	695	1043	Beckman DxC
	µg/ml	125	100	150	
	µmol/l	946	757	1135	Beckman AU400/600/640/2700/5400
	µg/ml	137	109	165	
Vancomycin	µmol/l	1069	855	1283	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	154	123	185	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
	µmol/l	11.1	8.88	13.3	Roche Integra
		µg/ml	16.5	13.2	19.8
	µmol/l	9.36	7.49	11.2	Ortho Vitros Microslide Systems
		µg/ml	13.9	11.1	16.7
	µmol/l	10.9	8.72	13.1	Abbott Architect
		µg/ml	16.2	13.0	19.4
	µmol/l	8.98	7.18	10.8	Siemens Centaur XP/XPT/Classic
		µg/ml	13.3	10.6	16.0
µmol/l	9.94	7.95	11.9	Siemens Dimension	
	µg/ml	14.8	11.8	17.8	
µmol/l	9.91	7.93	11.9	Roche Cobas 6000/8000	
	µg/ml	14.7	11.8	17.6	
µmol/l	9.89	7.91	11.9	Beckman DxC	
	µg/ml	14.7	11.8	17.6	
µmol/l	10.4	8.32	12.5	Thermo Scientific QMS Vancomycin	
	µg/ml	15.5	12.4	18.6	
µmol/l	10.8	8.64	13.0	Gravimetric	
	µg/ml	16.0	12.8	19.3	
Vitamin B12	pmol/l	710	568	852	Abbott Architect
	pg/ml	962	770	1154	
	pmol/l	852	639	1065	Siemens Centaur XP/XPT/Classic
	pg/ml	1154	866	1442	
	pmol/l	647	518	776	Siemens Immulite 2000
	pg/ml	877	702	1052	
	pmol/l	643	514	772	Beckman Dxl800
	pg/ml	871	696	1046	
	pmol/l	747	598	896	Roche Elecsys
	pg/ml	1012	810	1214	
	pmol/l	659	527	791	Beckman Access
	pg/ml	893	714	1072	
pmol/l	866	693	1039	Tosoh Series	
pg/ml	1173	939	1407		
pmol/l	632	506	758	Vitros ECi	
pg/ml	856	686	1026		



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

Cat. No. IA3111/IA3112 Lot. No. 1942EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	793	634	952	MP Biomedicals RIA
	pg/ml	1075	859	1291	
	pmol/l	711	569	853	Siemens Dimension
	pg/ml	963	771	1155	
	pmol/l	848	636	1060	Siemens Centaur CP
	pg/ml	1149	862	1436	

**ADDITIONAL VALUES FOR  
 IMMUNOASSAY PREMIUM PLUS – LEVEL 3  
 (IA PREMIUM PLUS 3)  
 Cat No. IA3111 / IA3112  
 Lot No. 1942EC  
 GTIN: 05055273207279 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
PSA Free	ng/ml=µg/l	51.4	38.6 – 64.2	BioMerieux VIDAS

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

28 Jun 21 me

## ADDITIONAL VALUES FOR 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.** 1942EC **EXPIRY:** 2022-12-28

Analyte	Unit	Target	Low	High	Method
Alpha-fetoprotein	KIU/l=IU/ml	193	135	251	Snibe Maglumi
	ng/ml	234	163	304	
Androstenedione	nmol/l	26.6	18.6	34.6	Snibe Maglumi
	ng/ml	7.64	5.35	9.93	
Beta-2-microglobulin	µg/ml=mg/l	4.93	3.45	6.41	Snibe Maglumi
C-Peptide	nmol/l	3.71	2.60	4.84	Snibe Maglumi
	ng/ml	11.2	7.84	14.6	
CA 19-9	U/ml	92.4	64.7	120	Snibe Maglumi
CA125	U/ml	203	142	264	Snibe Maglumi
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	54.7	38.3	71.1	Snibe Maglumi
Cortisol	nmol/l	1058	742	1375	Snibe Maglumi
	µg/dl	38.1	26.7	49.5	
DHEA-S	nmol/l	21.1	14.8	27.5	Snibe Maglumi
	µg/dl	779	545	1013	
Digoxin	nmol/l	5.24	3.66	6.81	Snibe Maglumi
	ng/ml	4.09	2.86	5.32	
Ferritin	ng/ml=µg/l	406	284	528	Snibe Maglumi
Free T3	pmol/l	33.6	23.5	43.8	Snibe Maglumi
	ng/dl	2.19	1.53	2.85	
	pg/ml	21.9	15.3	28.5	
Free T4	pmol/l	67.8	47.4	88.2	Snibe Maglumi
	ng/dl	5.29	3.70	6.88	
	pg/ml	52.9	37.0	68.8	
FSH	mU/ml	71.8	50.3	93.3	Snibe Maglumi
GH	µU/ml	55.9	39.0	72.7	Snibe Maglumi
	ng/ml	18.6	13.0	24.2	
Immunoglobulin E	KIU/l=IU/ml	546	382	710	Snibe Maglumi
Insulin	mU/l	48.0	33.6	62.4	Snibe Maglumi
	µU/ml	48.0	33.6	62.4	
Luteinising Hormone (LH)	mU/ml	65.7	46.0	85.4	Snibe Maglumi
Prolactin	µU/ml	996	697	1295	Snibe Maglumi
PSA Free	ng/ml=µg/l	20.5	14.4	26.7	Snibe Maglumi
PSA Total	ng/ml=µg/l	30.8	21.6	40.0	Snibe Maglumi
Testosterone	nmol/l	29.0	20.3	37.8	Snibe Maglumi
	ng/ml	8.35	5.85	10.9	
	ng/dl	835	585	1090	
Thyroid Stimulating Hormone	µU/ml=mIU/l	24.5	17.2	31.9	Snibe Maglumi
Total Beta hCG	mU/ml=IU/l	1073	751	1395	Snibe Maglumi
	IU/ml	1.07	0.751	1.40	
Total T3	nmol/l	5.24	3.67	6.80	Snibe Maglumi
	ng/ml	3.41	2.39	4.43	
	ng/dl	341	239	443	
Total T4	nmol/l	182	127	237	Snibe Maglumi
	µg/dl	14.2	9.94	18.5	
	ng/ml	142	99.4	185	
Vitamin B12	pmol/l	675	472	877	Snibe Maglumi
	pg/ml	914	640	1188	

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

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**ADDITIONAL VALUES FOR  
IMMUNOASSAY PREMIUM PLUS - LEVEL 3  
(IA PREMIUM PLUS 3)  
Cat No. IA3111 / IA3112  
Lot No. I942EC**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Folate	nmol/l	18.8	14.3 - 23.3	Roche Folate III - 07559992
	ng/ml	8.29	6.30 - 10.3	
	nmol/l	18.5	14.1 - 22.9	Roche Folate III - 07027290 e801
	ng/ml	8.16	6.20 - 10.2	
Vitamin B12	pmol/l	752	602 - 902	Roche Cobas 4000 / e411 Gen II
	pg/ml	1019	815 - 1223	
	pmol/l	764	611 - 917	Roche Cobas e801 Gen II
	pg/ml	1035	828 - 1242	

**EC REP**

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

05 Feb 21 pl

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

Cat. No. IA3111 / IA3112 Lot No. 1942EC 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	213.65	155.97	271.34	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	222.66	162.54	282.77	Mindray CL-900i
CA 15-3	U/ml	30.70	18.42	42.97	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	32.74	19.64	45.83	Mindray CL-900i
CA 19-9	U/ml	85.53	55.59	115.47	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	83.20	54.08	112.32	Mindray CL-900i
CA125	U/ml	325.72	195.43	456.00	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	U/ml	294.01	176.41	411.62	Mindray CL-900i
Carcinoembryonic Antigen (CEA) 癌胚抗原	ng/ml = µg/l	45.69	33.35	58.03	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	45.26	33.04	57.49	Mindray CL-900i
DHEA-S 去表雄酮硫酸盐	µg/dl	/	/	/	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dl	/	/	/	Mindray CL-900i
Ferritin 铁蛋白	ng/ml = µg/l	352.94	247.06	458.83	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	370.64	259.45	481.83	Mindray CL-900i
Folate 叶酸	ng/ml	18.08	11.75	24.41	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	18.84	12.24	25.43	Mindray CL-900i
Free T3 游离 T3	pg/ml	13.84	9.69	17.99	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	pg/ml	14.43	10.10	18.76	Mindray CL-900i
Free T4 游离 T4	ng/dl	3.57	2.61	4.54	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/dl	3.94	2.87	5.00	Mindray CL-900i
FSH 卵泡刺激素	mIU/ml	78.50	57.31	99.70	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mIU/ml	78.61	57.39	99.84	Mindray CL-900i
Insulin 胰岛素	mIU/ml	29.88	19.42	40.34	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mIU/ml	30.09	19.56	40.62	Mindray CL-900i
Progesterone 孕酮	ng/ml	45.02	29.26	60.77	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	42.38	27.55	57.21	Mindray CL-900i
Prolactin 催乳激素	ng/ml	58.48	40.94	76.03	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	59.90	41.93	77.87	Mindray CL-900i
PSA Free 游离 PSA	ng/ml = µg/l	24.79	18.09	31.48	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	25.66	18.73	32.59	Mindray CL-900i
PSA Total 总 PSA	ng/ml = µg/l	33.70	21.90	45.49	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml = µg/l	39.91	25.94	53.88	Mindray CL-900i
Testosterone 睾酮	ng/ml	12.16	8.27	16.05	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	12.06	8.20	15.91	Mindray CL-900i
Thyroglobulin 甲状腺球蛋白	ng/ml	18.14	12.34	23.95	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	19.48	13.24	25.71	Mindray CL-900i
Thyroid Stimulating Hormone 促甲状腺激素	µU/ml = mIU/l	26.57	17.27	35.87	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µU/ml = mIU/l	28.75	18.69	38.81	Mindray CL-900i
Total Beta hCG 总β人体绒毛膜促性腺激素	mU/ml=IU/l	119.94	71.97	167.92	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mU/ml=IU/l	118.90	71.34	166.45	Mindray CL-900i
Total Estriol 总雌三醇	ng/ml	4.65	3.02	6.28	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	4.28	2.78	5.78	Mindray CL-900i
Total T3 总 T3	ng/ml	3.31	2.31	4.30	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	ng/ml	3.17	2.22	4.12	Mindray CL-900i
Total T4 总 T4	µg/dl	15.21	10.64	19.77	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dl	14.55	10.18	18.91	Mindray CL-900i
E2 雌二醇	pg/ml	634.40	431.39	837.40	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	pg/ml	690.91	469.82	912.00	Mindray CL-900i
Total Beta hCG-II 总β人体绒毛膜促性腺激素 II	mU/ml=IU/l	114.60	74.49	154.70	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	mU/ml=IU/l	129.11	83.92	174.30	Mindray CL-900i
Cortisol 皮质醇	µg/dL	31.20	20.28	42.12	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i
	µg/dL	29.80	19.37	40.23	Mindray CL-900i