

## 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>	2147EC	<b>EXPIRY:</b>	2024-10-28		

### INTENDED USE

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

**This device is for prescription use only.**

### SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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

Health and Safety Data Sheets are available on request.

### STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C.

ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

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

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

### PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

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

### MATERIALS PROVIDED

Immunoassay Premium Plus - Level 3: 12 x 5 ml    Tri-Level: 4 x 5 ml

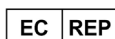
### MATERIAL REQUIRED BUT NOT PROVIDED

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. 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. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	30.4	22.8	38.0	ELISA
	ng/ml	10.1	7.55	12.7	
	nmol/l	22.8	17.1	28.5	DIAsource RIA
	ng/ml	7.55	5.66	9.44	
25-OH Vitamin D	nmol/l	100	75.0	125	Diasorin Liaison
	nmol/l	126	94.5	158	Siemens Centaur XP/XPT/Classic
	nmol/l	85.3	64.0	107	Roche Vitamin D Total
	nmol/l	98.9	74.2	124	Abbott Architect (3L52)
	nmol/l	113	84.8	141	Vitros ECI
	nmol/l	83.8	62.9	105	Tosoh Series
	nmol/l	92.6	69.5	116	BioMerieux Vidas
	nmol/l	80.9	60.7	101	Beckman Dxl 600/800
	nmol/l	111	83.3	139	Fujirebio Lumipulse G Series
	nmol/l	81.1	60.8	101	Beckman Access 25 OH Vitamin D Total
	nmol/l	112	84.0	140	LC/MS
	nmol/l	98.5	73.9	123	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	102	76.5	128	Diasorin Liaison XL
	nmol/l	103	77.3	129	Roche Vitamin D Total II
	nmol/l	104	78.0	130	Abbott Alinity i
	nmol/l	131	98.3	164	Siemens Atellica IM
nmol/l	99.0	74.3	124	Roche Vitamin D Total II e801	
ACTH	pmol/l	55.6	41.7	69.5	Siemens Immulite 2000/2500
	pg/ml	253	190	316	
	pmol/l	43.9	32.9	54.9	Roche Cobas 4000/E411
	pg/ml	200	150	250	
	pmol/l	43.2	32.4	54.0	Roche Cobas e601/602
	pg/ml	196	147	245	
	pmol/l	102	76.5	128	CIS IRMA
	pg/ml	464	348	580	
	pmol/l	56.1	42.1	70.1	Diasorin Liaison
	pg/ml	255	191	319	
pmol/l	70.6	53.0	88.3	Diasorin Liaison XL	
pg/ml	321	241	401		
pmol/l	46.3	34.7	57.9	Roche Cobas e402/e801	
pg/ml	210	158	262		
Aldosterone	pmol/l	363	272	454	CIS RIA
	pg/ml	131	98.1	164	
	pmol/l	1087	815	1359	Immunotech RIA
	pg/ml	392	294	490	
	pmol/l	758	569	948	Diasorin Liaison
	pg/ml	273	205	341	
pmol/l	793	595	991	Diasorin Liaison XL	
pg/ml	286	215	357		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	170	136	204	Abbott Architect
	ng/ml	206	165	247	
	KIU/l = IU/ml	191	153	229	BioMerieux Vidas
	ng/ml	231	185	277	
	KIU/l = IU/ml	192	154	230	Siemens Centaur XP/XPT/Classic
	ng/ml	232	186	278	
	KIU/l = IU/ml	173	138	208	Siemens Immulite 2000/2500
	ng/ml	209	167	251	
	KIU/l = IU/ml	184	147	221	Siemens Immulite 1000
	ng/ml	223	178	268	
	KIU/l = IU/ml	163	130	196	Beckman Dxl800
	ng/ml	197	157	237	
	KIU/l = IU/ml	185	148	222	Roche Elecsys
	ng/ml	224	179	269	
	KIU/l = IU/ml	183	146	220	Diasorin Liaison
	ng/ml	221	177	265	
	KIU/l = IU/ml	172	138	206	Beckman Access
	ng/ml	208	167	249	
	KIU/l = IU/ml	162	130	194	Tosoh Series
	ng/ml	196	157	235	
	KIU/l = IU/ml	191	153	229	Vitros Eci
	ng/ml	199	159	239	
	KIU/l = IU/ml	191	153	229	Roche Cobas e601/602
	ng/ml	231	185	277	
	KIU/l = IU/ml	303	242	364	CIS IRMA
	ng/ml	367	293	441	
	KIU/l = IU/ml	194	155	233	Roche Cobas 4000/E411
	ng/ml	235	188	282	
	KIU/l = IU/ml	184	147	221	Fujirebio Lumipulse G Series
	ng/ml	223	178	268	
KIU/l = IU/ml	189	151	227	Siemens Dimension	
ng/ml	229	183	275		
KIU/l = IU/ml	191	153	229	Siemens Centaur CP	
ng/ml	231	185	277		
KIU/l = IU/ml	192	154	230	Diasorin Liaison XL	
ng/ml	232	186	278		
KIU/l = IU/ml	190	152	228	Siemens Atellica IM	
ng/ml	230	184	276		
KIU/l = IU/ml	169	135	203	Abbott Alinity i	
ng/ml	204	163	245		
KIU/l = IU/ml	186	149	223	Roche Cobas e402/e801	
ng/ml	225	180	270		
Amikacin	µmol/l	23.1	18.5	27.7	Roche Cobas 6000/8000
	µg/ml	13.5	10.8	16.2	
	µmol/l	24.8	19.8	29.8	Abbott Architect
	µg/ml	14.5	11.6	17.4	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Amikacin	µmol/l	24.3	19.4	29.2	Thermo Scientific QMS Amikacin	
	µg/ml	14.2	11.4	17.0		
	µmol/l	24.5	19.6	29.4	Abbott Alinity	
	µg/ml	14.3	11.5	17.1		
	µmol/l	24.1	19.3	28.9	Gravimetric	
	µg/ml	14.1	11.3	16.9		
	Androstenedione	nmol/l	16.9	12.7	21.1	Beckman Coulter RIA
		ng/ml	4.85	3.64	6.06	
	nmol/l	33.8	25.4	42.3	Siemens Immulite 2000	
	ng/ml	9.70	7.29	12.1		
	nmol/l	28.7	21.5	35.9	Siemens Immulite 1000	
	ng/ml	8.24	6.17	10.3		
	nmol/l	24.4	18.3	30.5	Diasorin Liaison XL	
	ng/ml	7.00	5.25	8.75		
Beta-2-microglobulin	µg/ml = mg/l	6.59	5.27	7.91	Abbott Architect	
	µg/ml = mg/l	7.09	5.67	8.51	BioMerieux Vidas	
	µg/ml = mg/l	6.39	5.11	7.67	Behring Nephelometer	
	µg/ml = mg/l	5.43	4.34	6.52	Siemens Immulite 2000/2500	
	µg/ml = mg/l	7.22	5.78	8.66	Tosoh Series	
	µg/ml = mg/l	6.33	5.06	7.60	Roche Cobas 6000/8000	
	µg/ml = mg/l	6.81	5.45	8.17	Siemens Dimension	
	µg/ml = mg/l	5.20	4.16	6.24	Fujirebio Lumipulse G Series	
	µg/ml = mg/l	5.76	4.61	6.91	Diasorin Liaison XL	
	µg/ml = mg/l	7.40	5.92	8.88	Siemens Atellica CH	
C-Peptide	µg/ml = mg/l	6.66	5.33	7.99	Abbott Alinity	
	nmol/l	3.570	2.680	4.460	Siemens Immulite 2000/2500	
		ng/ml	10.8	8.09	13.5	
	nmol/l	3.570	2.680	4.460	Roche Elecsys	
		ng/ml	10.8	8.09	13.5	
	nmol/l	3.590	2.690	4.490	Roche Cobas e601/602	
		ng/ml	10.8	8.12	13.5	
	nmol/l	3.570	2.680	4.460	Diasorin Liaison	
		ng/ml	10.8	8.09	13.5	
	nmol/l	3.580	2.690	4.480	Roche Cobas 4000/E411	
		ng/ml	10.8	8.12	13.5	
	nmol/l	3.250	2.440	4.060	Abbott Architect	
		ng/ml	9.81	7.37	12.3	
	nmol/l	2.590	1.940	3.240	Siemens Centaur XP/XPT/Classic	
		ng/ml	7.82	5.86	9.78	
	nmol/l	3.300	2.480	4.130	Tosoh Series	
ng/ml		9.96	7.49	12.4		
nmol/l	4.070	3.050	5.090	Diasorin Liaison XL		
	ng/ml	12.3	9.21	15.4		
nmol/l	3.440	2.580	4.300	Roche Cobas e402/e801		
	ng/ml	10.4	7.79	13.0		

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Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
C-Peptide	nmol/l	2.500	1.880	3.130	Siemens Atellica IM	
	ng/ml	7.55	5.68	9.42		
	nmol/l	3.170	2.380	3.960	Abbott Alinity i	
	ng/ml	9.57	7.19	12.0		
	nmol/l	3.260	2.445	4.075	Vitros ECi	
	ng/ml	9.84	7.38	12.3		
	CA 15-3	U/ml	96.1	76.9	115	Abbott Architect
		U/ml	65.9	52.7	79.1	BioMerieux Vidas
U/ml		72.0	57.6	86.4	Siemens Centaur XP/XPT/Classic	
U/ml		78.5	62.8	94.2	Siemens Immulite 2000/2500	
U/ml		87.1	69.7	105	Siemens Immulite 1000	
U/ml		32.9	26.3	39.5	Beckman Dxl800	
U/ml		80.1	64.1	96.1	Roche Elecsys	
U/ml		32.6	26.1	39.1	Beckman Access	
U/ml		84.3	67.4	101	Tosoh Series	
U/ml		70.5	56.4	84.6	Vitros ECi	
U/ml		81.7	65.4	98.0	Roche Cobas e601/602	
U/ml		81.0	64.8	97.2	Roche Cobas 4000/E411	
U/ml		87.3	69.8	105	Fujirebio Lumipulse G Series	
U/ml		71.2	57.0	85.4	Siemens Centaur CP	
U/ml		79.4	63.5	95.3	Diasorin Liaison XL	
U/ml		78.0	62.4	93.6	Siemens Atellica IM	
U/ml	75.5	60.4	90.6	Roche Cobas e402/e801		
U/ml	91.3	73.0	110	Abbott Alinity i		
CA 19-9	U/ml	185	148	222	BioMerieux Vidas	
	U/ml	228	182	274	Siemens Centaur XP/XPT/Classic	
	U/ml	632	506	758	Siemens Immulite 2000/2500	
	U/ml	790	632	948	Siemens Immulite 1000	
	U/ml	560	448	672	Beckman Dxl800	
	U/ml	169	135	203	Roche Elecsys	
	U/ml	276	221	331	Diasorin Liaison	
	U/ml	630	504	756	Beckman Access	
	U/ml	127	102	152	Tosoh Series	
	U/ml	325	260	390	Vitros ECi	
	U/ml	349	279	419	Abbott Architect XR/XR2/XRL	
	U/ml	168	134	202	Roche Cobas e601/602	
	U/ml	170	136	204	Roche Cobas 4000/E411	
	U/ml	316	253	379	Fujirebio Lumipulse G Series	
	U/ml	208	166	250	Siemens Centaur CP	
	U/ml	292	234	350	Diasorin Liaison XL	
U/ml	223	178	268	Siemens Atellica IM		
U/ml	164	131	197	Roche Cobas e402/e801		
U/ml	352	282	422	Abbott Alinity XR/XR2/XRL		
CA125	U/ml	255	204	306	Abbott Architect	
	U/ml	200	160	240	BioMerieux Vidas	
	U/ml	206	165	247	Siemens Centaur XP/XPT/Classic OV Kit	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
CA125	U/ml	210	168	252	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	173	138	208	Siemens Immulite 2000/2500
	U/ml	196	157	235	Siemens Immulite 1000
	U/ml	167	134	200	Beckman DxI800
	U/ml	183	146	220	Roche Elecsys
	U/ml	169	135	203	Beckman Access
	U/ml	310	248	372	Tosoh Series
	U/ml	196	157	235	Vitros Eci
	U/ml	189	151	227	Roche Cobas 4000/E411
	U/ml	187	150	224	Roche Cobas e601/602
	U/ml	170	136	204	Fujirebio Lumipulse G Series
	U/ml	207	166	248	Siemens Centaur CP CA125 II kit
	U/ml	262	210	314	Diasorin Liaison XL
	U/ml	242	194	290	Siemens Atellica IM
	U/ml	179	143	215	Roche Cobas e402/e801
	U/ml	265	212	318	Abbott Alinity i
Carbamazepine	µmol/l	72.0	57.6	86.4	Abbott Architect (CMIA)
	µg/ml	17.0	13.6	20.4	
	µmol/l	71.7	57.4	86.0	Siemens Centaur XP/XPT/Classic
	µg/ml	16.9	13.6	20.2	
	µmol/l	65.8	52.6	79.0	Siemens Dimension
	µg/ml	15.6	12.4	18.8	
	µmol/l	63.2	50.6	75.8	Siemens Immulite 2000/2500
	µg/ml	14.9	12.0	17.8	
	µmol/l	60.6	48.5	72.7	Siemens Immulite 1000
	µg/ml	14.3	11.5	17.1	
	µmol/l	80.6	64.5	96.7	Roche Integra
	µg/ml	19.1	15.2	23.0	
	µmol/l	71.2	57.0	85.4	Roche Cobas 6000/8000
	µg/ml	16.8	13.5	20.1	
	µmol/l	70.7	56.6	84.8	Beckman AU400/600/640/2700/5400
	µg/ml	16.7	13.4	20.0	
	µmol/l	56.8	45.4	68.2	Abbott Architect (PETINA)
	µg/ml	13.4	10.7	16.1	
	µmol/l	70.7	56.6	84.8	EMIT
	µg/ml	16.7	13.4	20.0	
µmol/l	67.9	54.3	81.5	Siemens Atellica CH	
µg/ml	16.1	12.8	19.4		
µmol/l	59.1	47.3	70.9	Abbott Alinity (PETINA)	
µg/ml	14.0	11.2	16.8		
µmol/l	72.2	57.8	86.6	Gravimetric	
µg/ml	17.1	13.7	20.5		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	73.0	58.4	87.6	Abbott Architect
	ng/ml = µg/l	63.2	50.6	75.8	BioMerieux Vidas
	ng/ml = µg/l	63.0	50.4	75.6	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	49.9	39.9	59.9	CIS RIA Coated tube

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	83.6	66.9	100	Siemens Immulite 2000/2500
	ng/ml = µg/l	77.5	62.0	93.0	Siemens Immulite 1000
	ng/ml = µg/l	57.1	45.7	68.5	Beckman Dxl800
	ng/ml = µg/l	51.4	41.1	61.7	Roche Elecsys
	ng/ml = µg/l	60.8	48.6	73.0	Diasorin Liaison
	ng/ml = µg/l	59.8	47.8	71.8	Beckman Access
	ng/ml = µg/l	81.6	65.3	97.9	Tosoh Series
	ng/ml = µg/l	69.6	55.7	83.5	Vitros ECi
	ng/ml = µg/l	52.2	41.8	62.6	Roche Cobas e601/602
	ng/ml = µg/l	53.4	42.7	64.1	Roche Cobas 4000/E411
	ng/ml = µg/l	79.3	63.4	95.2	Fujirebio Lumipulse G Series
	ng/ml = µg/l	69.6	55.7	83.5	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	63.6	50.9	76.3	Siemens Centaur CP
	ng/ml = µg/l	61.6	49.3	73.9	Diasorin Liaison XL
	ng/ml = µg/l	61.5	49.2	73.8	Siemens Atellica IM
	ng/ml = µg/l	52.9	42.3	63.5	Roche Cobas e402/e801
ng/ml = µg/l	72.5	58.0	87.0	Abbott Alinity i	
Cortisol	nmol/l	911	683	1139	Abbott Architect
	µg/dl	32.8	24.6	41.0	
	nmol/l	1020	765	1275	BioMerieux Vidas
	µg/dl	36.7	27.5	45.9	
	nmol/l	1126	845	1408	Siemens Centaur XP/XPT/Classic
	µg/dl	40.5	30.4	50.6	
	nmol/l	832	624	1040	CIS RIA
	µg/dl	30.0	22.5	37.5	
	nmol/l	926	695	1158	Siemens Immulite 2000/2500
	µg/dl	33.3	25.0	41.6	
	nmol/l	1021	766	1276	Siemens Immulite 1000
	µg/dl	36.8	27.6	46.0	
	nmol/l	1041	781	1301	Beckman Dxl800
	µg/dl	37.5	28.1	46.9	
	nmol/l	1019	764	1274	Roche Elecsys
	µg/dl	36.7	27.5	45.9	
	nmol/l	1116	837	1395	Beckman Access
	µg/dl	40.2	30.1	50.3	
	nmol/l	1087	815	1359	Tosoh Series
	µg/dl	39.1	29.3	48.9	
nmol/l	924	693	1155	Vitros ECi	
µg/dl	33.3	24.9	41.7		
nmol/l	964	723	1205	Roche Cobas e601/602	
µg/dl	34.7	26.0	43.4		
nmol/l	1038	779	1298	Roche Cobas 4000/E411	
µg/dl	37.4	28.0	46.8		
nmol/l	1239	929	1549	Siemens Centaur CP	
µg/dl	44.6	33.4	55.8		
nmol/l	1032	774	1290	Roche Cobas 4000/e411 Gen II	
µg/dl	37.2	27.9	46.5		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	975	731	1219	Roche Cobas e601/602 Gen II
	µg/dl	35.1	26.3	43.9	
	nmol/l	1012	759	1265	Roche Elecsys Gen II
	µg/dl	36.4	27.3	45.5	
	nmol/l	1013	760	1266	Diasorin Liaison XL
	µg/dl	36.5	27.4	45.6	
	nmol/l	1229	922	1536	Siemens Atellica IM
	µg/dl	44.2	33.2	55.2	
DHEA-S	nmol/l	981	736	1226	Roche Cobas e402/e801
	µg/dl	35.3	26.5	44.1	
	nmol/l	898	674	1123	Abbott Alinity i
	µg/dl	32.3	24.3	40.3	
	µmol/l	21.8	17.4	26.2	Abbott Architect
	µmol/l	18.1	14.5	21.7	Siemens Immulite 2000/2500
	µmol/l	17.0	13.6	20.4	Siemens Immulite 1000
	µmol/l	17.1	13.7	20.5	Beckman Dxl800
	µmol/l	27.2	21.8	32.6	Roche Elecsys
	µmol/l	18.1	14.5	21.7	Beckman Access
	µmol/l	14.7	11.8	17.6	Diasorin Liaison
	µmol/l	16.8	13.4	20.2	Siemens Centaur XP/XPT/Classic
	µmol/l	25.9	20.7	31.1	Roche Cobas 4000/E411
	µmol/l	26.3	21.0	31.6	Roche Cobas e601/602
Digoxin	µmol/l	13.6	10.9	16.3	Diasorin Liaison XL
	µmol/l	17.1	13.7	20.5	Siemens Atellica IM
	µmol/l	25.2	20.2	30.2	Roche Cobas e402/e801
	µmol/l	22.3	17.8	26.8	Abbott Alinity i
	nmol/l	4.04	3.23	4.85	Abbott Architect (CMIA)
	ng/ml	3.16	2.52	3.80	
	nmol/l	4.32	3.46	5.18	BioMerieux Vidas
	ng/ml	3.37	2.70	4.04	
	nmol/l	5.30	4.24	6.36	Siemens Centaur XP/XPT/Classic
	ng/ml	4.14	3.31	4.97	
	nmol/l	4.60	3.68	5.52	Siemens Dimension
	ng/ml	3.59	2.87	4.31	
	nmol/l	4.80	3.84	5.76	Beckman Dxl800
	ng/ml	3.75	3.00	4.50	
	nmol/l	4.66	3.73	5.59	Roche Integra
	ng/ml	3.64	2.91	4.37	
	nmol/l	4.73	3.78	5.68	Roche Cobas e601/602
	ng/ml	3.69	2.95	4.43	
nmol/l	5.05	4.04	6.06	Beckman AU400/600/640/2700/5400	
ng/ml	3.94	3.16	4.72		
nmol/l	4.78	3.82	5.74	Roche Cobas 4000/E411	
ng/ml	3.73	2.98	4.48		
nmol/l	4.64	3.71	5.57	Roche Cobas e402/e801	
ng/ml	3.62	2.90	4.34		



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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	5.95	4.76	7.14	Siemens Atellica IM
	ng/ml	4.65	3.72	5.58	
	nmol/l	4.38	3.50	5.26	Siemens Atellica CH
	ng/ml	3.42	2.73	4.11	
	nmol/l	4.47	3.58	5.36	Abbott Alinity (CMIA)
	ng/ml	3.49	2.80	4.18	
	nmol/l	4.40	3.52	5.28	Abbott Alinity (PETINA)
	ng/ml	3.44	2.75	4.13	
Ethosuximide	µmol/l	493	394	592	Gravimetric
	µg/ml	69.9	55.9	83.9	
Ferritin	ng/ml = µg/l	325	260	390	Abbott Architect
	ng/ml = µg/l	233	186	280	BioMerieux Vidas
	ng/ml = µg/l	227	182	272	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	270	216	324	Siemens Dimension
	ng/ml = µg/l	257	206	308	Siemens Immulite 2000/2500
	ng/ml = µg/l	206	165	247	Siemens Immulite 1000
	ng/ml = µg/l	204	163	245	Beckman Dxl800
	ng/ml = µg/l	306	245	367	Roche Elecsys/Cobas e411
	ng/ml = µg/l	274	219	329	Diasorin Liaison
	ng/ml = µg/l	300	240	360	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	208	166	250	Beckman Access
	ng/ml = µg/l	204	163	245	Tosoh Series
	ng/ml = µg/l	186	149	223	Vitros Eci
	ng/ml = µg/l	289	231	347	Roche Cobas 4000/c311
	ng/ml = µg/l	241	193	289	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	281	225	337	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	227	182	272	Siemens Centaur CP
	ng/ml = µg/l	308	246	370	Diasorin Liaison XL
	ng/ml = µg/l	333	266	400	Abbott Alinity i
	ng/ml = µg/l	215	172	258	Siemens Atellica IM
ng/ml = µg/l	296	237	355	Roche Cobas e402/e801	
Folate	nmol/l	17.7	13.5	21.9	Abbott Architect
	ng/ml	7.81	5.95	9.67	
	nmol/l	39.6	30.1	49.1	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	17.5	13.3	21.7	
	nmol/l	15.6	11.9	19.3	Siemens Immulite 2000
	ng/ml	6.88	5.25	8.51	
	nmol/l	21.7	16.5	26.9	Beckman Dxl 600 / 800 - A14208
	ng/ml	9.57	7.28	11.9	
	nmol/l	21.6	16.4	26.8	Beckman Access
	ng/ml	9.53	7.23	11.8	
	nmol/l	33.4	25.4	41.4	Tosoh Series
	ng/ml	14.7	11.2	18.2	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	12.9	9.80	16.0	Vitros ECI
	ng/ml	5.69	4.32	7.06	
	nmol/l	12.8	9.73	15.9	Siemens Dimension
	ng/ml	5.64	4.29	6.99	
	nmol/l	21.4	16.3	26.5	Beckman Dxl 600 / 800 - A98032
	ng/ml	9.44	7.19	11.7	
	nmol/l	23.1	17.6	28.6	Roche Folate III - 04476433
	ng/ml	10.2	7.76	12.6	
	nmol/l	21.2	16.1	26.3	Roche Elecsys Folate
	ng/ml	9.35	7.10	11.6	
	nmol/l	22.6	17.2	28.0	Roche Folate III - 07559992
	ng/ml	9.97	7.59	12.4	
	nmol/l	35.6	27.1	44.1	Siemens Atellica IM
	ng/ml	15.7	12.0	19.4	
nmol/l	18.5	14.1	22.9	Abbott Alinity i	
ng/ml	8.16	6.22	10.1		
nmol/l	22.9	17.4	28.4	Roche Folate 07027290 e801	
ng/ml	10.1	7.67	12.5		
Free T3	pmol/l	25.4	19.1	31.8	Abbott Architect, 2 point calibration
	ng/dl	1.65	1.24	2.06	
	pg/ml	16.5	12.4	20.6	
	pmol/l	23.9	17.9	29.9	BioMerieux Vidas
	ng/dl	1.55	1.16	1.94	
	pg/ml	15.6	11.7	19.5	
	pmol/l	24.4	18.3	30.5	Siemens Centaur XP/XPT/Classic
	ng/dl	1.59	1.19	1.99	
	pg/ml	15.9	11.9	19.9	
	pmol/l	15.1	11.3	18.9	Siemens Immulite 2000/2500
	ng/dl	0.982	0.735	1.23	
	pg/ml	9.83	7.36	12.3	
	pmol/l	14.8	11.1	18.5	Siemens Immulite 1000
	ng/dl	0.962	0.722	1.20	
	pg/ml	9.63	7.23	12.0	
	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	30.3	22.7	37.9	Roche Elecsys
	ng/dl	1.97	1.48	2.46	
	pg/ml	19.7	14.8	24.6	
	pmol/l	32.7	24.5	40.9	Diasorin Liaison
	ng/dl	2.13	1.59	2.67	
	pg/ml	21.3	15.9	26.7	
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	36.9	27.7	46.1	Tosoh Series	
ng/dl	2.40	1.80	3.00		
pg/ml	24.0	18.0	30.0		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	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	30.0	22.5	37.5	Roche Cobas 4000/E411
	ng/dl	1.95	1.46	2.44	
	pg/ml	19.5	14.6	24.4	
	pmol/l	30.3	22.7	37.9	Roche Cobas e601/602
	ng/dl	1.97	1.48	2.46	
	pg/ml	19.7	14.8	24.6	
	pmol/l	30.7	23.0	38.4	Siemens Dimension
	ng/dl	2.00	1.50	2.50	
	pg/ml	20.0	15.0	25.0	
	pmol/l	31.1	23.3	38.9	Siemens Dimension Vista LOCI
	ng/dl	2.02	1.51	2.53	
	pg/ml	20.2	15.2	25.2	
	pmol/l	25.1	18.8	31.4	Siemens Centaur CP
	ng/dl	1.63	1.22	2.04	
	pg/ml	16.3	12.2	20.4	
	pmol/l	36.5	27.4	45.6	Diasorin Liaison XL
	ng/dl	2.37	1.78	2.96	
	pg/ml	23.8	17.8	29.8	
	pmol/l	25.9	19.4	32.4	Siemens Atellica IM
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.9	12.6	21.2	
pmol/l	25.6	19.2	32.0	Abbott Alinity, 2 point cal	
ng/dl	1.66	1.25	2.07		
pg/ml	16.7	12.5	20.9		
pmol/l	25.2	18.9	31.5	Abbott Architect, 6 point calibration	
ng/dl	1.64	1.23	2.05		
pg/ml	16.4	12.3	20.5		
pmol/l	29.8	22.4	37.3	Roche Cobas e402/e801	
ng/dl	1.94	1.46	2.42		
pg/ml	19.4	14.6	24.2		
pmol/l	25.7	19.3	32.1	Abbott Alinity, 6 point cal	
ng/dl	1.67	1.25	2.09		
pg/ml	16.7	12.6	20.8		
Free T4	pmol/l	47.8	35.9	59.8	Abbott Architect
	ng/dl	3.73	2.80	4.66	
	pg/ml	37.3	28.0	46.6	
	pmol/l	48.7	36.5	60.9	Siemens Centaur XP/XPT/Classic
	ng/dl	3.80	2.85	4.75	
	pg/ml	38.0	28.5	47.5	
	pmol/l	56.0	42.0	70.0	CIS RIA Coated tube
	ng/dl	4.37	3.28	5.46	
	pg/ml	43.7	32.8	54.6	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	71.6	53.7	89.5	Siemens Dimension
	ng/dl	5.58	4.19	6.97	
	pg/ml	55.8	41.9	69.7	
	pmol/l	72.5	54.4	90.6	Siemens Immulite 2000/2500
	ng/dl	5.66	4.24	7.08	
	pg/ml	56.6	42.4	70.8	
	pmol/l	74.4	55.8	93.0	Siemens Immulite 1000
	ng/dl	5.80	4.35	7.25	
	pg/ml	58.0	43.5	72.5	
	pmol/l	55.7	41.8	69.6	Beckman Dxl800
	ng/dl	4.34	3.26	5.42	
	pg/ml	43.4	32.6	54.2	
	pmol/l	68.8	51.6	86.0	Roche Elecsys
	ng/dl	5.37	4.02	6.72	
	pg/ml	53.7	40.2	67.2	
	pmol/l	94.3	70.7	118	Diasorin Liaison
	ng/dl	7.36	5.51	9.21	
	pg/ml	73.6	55.1	92.1	
	pmol/l	51.9	38.9	64.9	Beckman Access
	ng/dl	4.05	3.03	5.07	
	pg/ml	40.5	30.3	50.7	
	pmol/l	69.8	52.4	87.3	Tosoh Series
	ng/dl	5.44	4.09	6.79	
	pg/ml	54.4	40.9	67.9	
	pmol/l	89.7	67.3	112	Vitros ECi
	ng/dl	7.00	5.25	8.75	
	pg/ml	70.0	52.5	87.5	
	pmol/l	71.0	53.3	88.8	Roche Cobas e601/602
	ng/dl	5.54	4.16	6.92	
	pg/ml	55.4	41.6	69.2	
pmol/l	45.7	34.3	57.1	Immunotech IRMA	
ng/dl	3.56	2.68	4.44		
pg/ml	35.6	26.8	44.4		
pmol/l	68.6	51.5	85.8	Roche Cobas 4000/E411	
ng/dl	5.35	4.02	6.68		
pg/ml	53.5	40.2	66.8		
pmol/l	74.0	55.5	92.5	Siemens Dimension Vista LOCI	
ng/dl	5.77	4.33	7.21		
pg/ml	57.7	43.3	72.1		
pmol/l	71.4	53.6	89.3	Biomerieux Vidas FT4N Kit	
ng/dl	5.57	4.18	6.96		
pg/ml	55.7	41.8	69.6		
pmol/l	80.6	60.5	101	Siemens Dimension Exl LOCI	
ng/dl	6.29	4.72	7.86		
pg/ml	62.9	47.2	78.6		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	53.1	39.8	66.4	Siemens Centaur CP
	ng/dl	4.14	3.10	5.18	
	pg/ml	41.4	31.0	51.8	
	pmol/l	112	84.0	140	Diasorin Liaison XL
	ng/dl	8.74	6.55	10.9	
	pg/ml	87.4	65.5	109	
	pmol/l	53.6	40.2	67.0	Siemens Atellica IM
	ng/dl	4.18	3.14	5.22	
	pg/ml	41.8	31.4	52.2	
	pmol/l	44.0	33.0	55.0	Abbott Alinity i
	ng/dl	3.43	2.57	4.29	
	pg/ml	34.3	25.7	42.9	
pmol/l	72.3	54.2	90.4	Roche Cobas e402/e801	
ng/dl	5.64	4.23	7.05		
pg/ml	56.4	42.3	70.5		
FSH	mU/ml	52.4	41.9	62.9	Abbott Architect
	mU/ml	69.3	55.4	83.2	BioMerieux Vidas
	mU/ml	77.5	62.0	93.0	Siemens Centaur XP/XPT/Classic
	mU/ml	59.9	47.9	71.9	Siemens Immulite 2000/2500
	mU/ml	60.6	48.5	72.7	Siemens Immulite 1000
	mU/ml	64.0	51.2	76.8	Beckman DxI800
	mU/ml	57.6	46.1	69.1	Roche/BM Elecsys
	mU/ml	68.0	54.4	81.6	Diasorin Liaison
	mU/ml	65.1	52.1	78.1	Beckman Access
	mU/ml	63.3	50.6	76.0	Tosoh Series
	mU/ml	51.8	41.4	62.2	Vitros ECi
	mU/ml	59.6	47.7	71.5	Roche Cobas 4000/E411
	mU/ml	55.3	44.2	66.4	Roche Cobas e601/602
	mU/ml	49.4	39.5	59.3	Fujirebio Lumipulse G Series
	mU/ml	70.3	56.2	84.4	Siemens Centaur CP
	mU/ml	92.1	73.7	111	Diasorin Liaison XL
	mU/ml	78.0	62.4	93.6	Siemens Atellica IM
	mU/ml	52.2	41.8	62.6	Abbott Alinity i
mU/ml	55.5	44.4	66.6	Roche Cobas e402/e801	
Gentamicin	µmol/l	17.9	14.3	21.5	Siemens Centaur XP/XPT/Classic
	µg/ml	8.56	6.84	10.3	
	µmol/l	14.3	11.4	17.2	Abbott Architect (CMIA)
	µg/ml	6.84	5.45	8.23	
	µmol/l	10.3	8.24	12.4	Roche Cobas 6000/8000 Online KIMS
	µg/ml	4.92	3.94	5.90	
	µmol/l	11.7	9.36	14.0	Roche Cobas 6000/8000 CEDIA
	µg/ml	5.59	4.47	6.71	
µmol/l	14.3	11.4	17.2	Siemens Atellica CH	
µg/ml	6.84	5.45	8.23		
µmol/l	14.5	11.6	17.4	Abbott Alinity (PETINA)	
µg/ml	6.93	5.54	8.32		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Gentamicin	µmol/l	11.7	9.36	14.0	Gravimetric
	µg/ml	5.59	4.47	6.69	
Growth Hormone (GH)	µU/ml	43.2	34.6	51.8	Siemens Immulite 2000/2500
	ng/ml	14.4	11.5	17.3	
	µU/ml	40.7	32.6	48.8	Siemens Immulite 1000
	ng/ml	13.6	10.9	16.3	
	µU/ml	32.6	26.1	39.1	Beckman Dxl800
	ng/ml	10.9	8.69	13.1	
	µU/ml	35.8	28.6	43.0	Beckman Access
	ng/ml	11.9	9.52	14.3	
	µU/ml	44.3	35.4	53.2	Tosoh Series
	ng/ml	14.8	11.8	17.8	
	µU/ml	35.2	28.2	42.2	Diasorin Liaison
	ng/ml	11.7	9.39	14.0	
	µU/ml	37.3	29.8	44.8	Roche Cobas 4000/E411
	ng/ml	12.4	9.92	14.9	
	µU/ml	38.6	30.9	46.3	Roche Cobas e601/602
	ng/ml	12.9	10.3	15.5	
Immunoglobulin E	µU/ml	36.3	29.0	43.6	Diasorin Liaison XL
	ng/ml	12.1	9.66	14.5	
	µU/ml	39.1	31.3	46.9	Roche Cobas e402/e801
	ng/ml	13.0	10.4	15.6	
	KIU/l = IU/ml	484	387	581	Abbott Architect
		505	404	606	Beckman Immage
		494	395	593	BioMerieux Vidas
		550	440	660	Siemens Centaur XP/XPT/Classic
		535	428	642	Siemens Immulite 2000/2500
		544	435	653	Siemens Immulite 1000
		602	482	722	Roche Elecsys
		499	399	599	Pharmacia Unicap
		491	393	589	Tosoh Series
		578	462	694	Roche Cobas 4000/E411
561		449	673	Roche Cobas e601/602	
505		404	606	Siemens Centaur CP	
575		460	690	Siemens Atellica IM	
562		450	674	Roche Cobas e402/e801	
480	384	576	Abbott Alinity		
Insulin	mU/l	18.3	13.7	22.9	Siemens Centaur XP/XPT/Classic
	µU/ml	18.3	13.7	22.9	
	mU/l	8.74	6.56	10.9	Siemens Immulite 2000
	µU/ml	8.74	6.56	10.9	
	mU/l	26.7	20.0	33.4	Roche Elecsys
	µU/ml	26.7	20.0	33.4	
	mU/l	19.1	14.3	23.9	Beckman Access
	µU/ml	19.1	14.3	23.9	
mU/l	18.0	13.5	22.5	Abbott Architect	
	µU/ml	18.0	13.5	22.5	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	31.7	23.8	39.6	Tosoh Series
	µU/ml	31.7	23.8	39.6	
	mU/l	26.8	20.1	33.5	Roche Cobas 4000/E411
	µU/ml	26.8	20.1	33.5	
	mU/l	17.9	13.4	22.4	Beckman Dxl 600/800
	µU/ml	17.9	13.4	22.4	
	mU/l	26.7	20.0	33.4	Diasorin Liaison
	µU/ml	26.7	20.0	33.4	
	mU/l	26.4	19.8	33.0	Roche Cobas 6000/8000
	µU/ml	26.4	19.8	33.0	
	mU/l	22.4	16.8	28.0	Fujirebio Lumipulse G Series
	µU/ml	22.4	16.8	28.0	
	mU/l	28.7	21.5	35.9	Diasorin Liaison XL
	µU/ml	28.7	21.5	35.9	
Luteinising Hormone (LH)	mU/ml	18.9	14.2	23.6	Siemens Atellica IM
	µU/ml	18.9	14.2	23.6	
	mU/l	16.7	12.5	20.9	Abbott Alinity i
	µU/ml	16.7	12.5	20.9	
	mU/ml	41.0	32.8	49.2	Abbott Architect
	mU/ml	50.4	40.3	60.5	BioMerieux Vidas
	mU/ml	49.3	39.4	59.2	Siemens Centaur XP/XPT/Classic
	mU/ml	69.7	55.8	83.6	Siemens Immulite 2000
	mU/ml	76.1	60.9	91.3	Siemens Immulite 1000
	mU/ml	41.0	32.8	49.2	Beckman Dxl800
	mU/ml	53.9	43.1	64.7	Roche Elecsys
	mU/ml	66.6	53.3	79.9	Diasorin Liaison
	mU/ml	40.8	32.6	49.0	Beckman Access
	mU/ml	48.1	38.5	57.7	Tosoh Series
mU/ml	58.7	47.0	70.4	Vitros ECi	
mU/ml	54.6	43.7	65.5	Roche Cobas 4000/E411	
mU/ml	54.7	43.8	65.6	Roche Cobas e601/602	
mU/ml	47.8	38.2	57.4	Fujirebio Lumipulse G Series	
mU/ml	47.8	38.2	57.4	Siemens Centaur CP	
mU/ml	66.2	53.0	79.4	Diasorin Liaison XL	
mU/ml	50.6	40.5	60.7	Siemens Atellica IM	
mU/ml	40.1	32.1	48.1	Abbott Alinity i	
mU/ml	54.8	43.8	65.8	Roche Cobas e402/e801	
Oestradiol	pmol/l	1285	1028	1542	Abbott Architect
	pg/ml	350	280	420	
	pmol/l	2937	2350	3524	BioMerieux Vidas
	pg/ml	799	639	959	
	pmol/l	2402	1922	2882	Siemens Centaur XP/XPT/Classic
	pg/ml	653	523	783	
pmol/l	2209	1767	2651	Siemens Immulite 2000/2500	
pg/ml	601	481	721		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	2154	1723	2585	Siemens Immulite 1000
	pg/ml	586	469	703	
	pmol/l	1469	1175	1763	Beckman Dxl800
	pg/ml	400	320	480	
	pmol/l	1419	1135	1703	Roche Elecsys (Estradiol II)
	pg/ml	386	309	463	
	pmol/l	1619	1295	1943	Tosoh (E2)
	pg/ml	440	352	528	
	pmol/l	2527	2022	3032	Vitros ECi
	pg/ml	687	550	824	
	pmol/l	1040	832	1248	Diasorin Liaison
	pg/ml	283	226	340	
	pmol/l	1460	1168	1752	Roche Cobas e601/602 (Estradiol II)
	pg/ml	397	318	476	
	pmol/l	1449	1159	1739	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	394	315	473	
	pmol/l	2383	1906	2860	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	648	518	778	
	pmol/l	1791	1433	2149	Tosoh (iE2-hsE2)
	pg/ml	487	390	584	
pmol/l	1457	1166	1748	Roche Cobas e601/602 (Estradiol III)	
pg/ml	396	317	475		
pmol/l	1421	1137	1705	Roche Elecsys (Estradiol III)	
pg/ml	387	309	465		
pmol/l	1455	1164	1746	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	396	317	475		
pmol/l	1049	839	1259	Diasorin Liaison XL	
pg/ml	285	228	342		
pmol/l	1637	1310	1964	Beckman Access / Access 2 Sensitive B84493	
pg/ml	445	356	534		
pmol/l	1438	1150	1726	Beckman Dxl600/800 Sensitive B84493	
pg/ml	391	313	469		
pmol/l	2572	2058	3086	Siemens Atellica IM	
pg/ml	700	560	840		
pmol/l	1257	1006	1508	Abbott Alinity i	
pg/ml	342	274	410		
pmol/l	1449	1159	1739	Roche Cobas e801 (Estradiol III)	
pg/ml	394	315	473		
Paracetamol	mmol/l	0.503	0.402	0.604	Abbott Architect
	mg/l	76.1	60.8	91.4	
	mmol/l	0.483	0.386	0.580	Roche Cobas c501/502/503/701/702
	mg/l	73.1	58.4	87.8	
	mmol/l	0.508	0.406	0.610	Beckman AU Instruments
mg/l	76.9	61.4	92.4		
mmol/l	0.518	0.414	0.622	EMIT	
mg/l	78.4	62.6	94.2		



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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Paracetamol	mmol/l	0.513	0.410	0.616	Abbott Alinity	
	mg/l	77.6	62.0	93.2		
	mmol/l	0.529	0.420	0.630	Gravimetric	
	mg/l	80.0	63.5	95.3		
Phenobarbital	µmol/l	124	99.0	149	Abbott Architect (CMIA)	
	µg/ml	28.8	23.0	34.6		
	µmol/l	118	94.4	142	Roche Cobas e601/602/801	
	µg/ml	27.4	21.9	32.9		
	µmol/l	113	90.4	136	Beckman AU400/600/640/2700/5400	
	µg/ml	26.2	21.0	31.4		
	µmol/l	162	130	194	Siemens Centaur XP/XPT/Classic	
	µg/ml	37.6	30.2	45.0		
	µmol/l	118	94.4	142	Roche Integra	
	µg/ml	27.4	21.9	32.9		
	µmol/l	125	100	150	Siemens Atellica CH	
	µg/ml	29.0	23.2	34.8		
	µmol/l	106	84.8	127	Abbott Alinity (PETINA)	
	µg/ml	24.6	19.7	29.5		
Phenytoin	µmol/l	121	96.8	145	Gravimetric	
	µg/ml	28.1	22.5	33.6		
	µmol/l	117	93.6	140	Roche Cobas C303/501/502/503/701	
	µg/ml	27.1	21.7	32.5		
	Phenytoin	µmol/l	94.9	75.9	114	Abbott Architect
		µg/ml	24.0	19.2	28.8	
		µmol/l	130	104	156	Siemens Centaur XP/XPT/Classic
		µg/ml	32.8	26.3	39.3	
		µmol/l	102	81.6	122	Siemens Dimension
		µg/ml	25.8	20.6	31.0	
		µmol/l	97.1	77.7	117	Siemens Immulite 2000/2500
		µg/ml	24.5	19.6	29.4	
		µmol/l	92.5	74.0	111	Roche Integra
		µg/ml	23.4	18.7	28.1	
µmol/l		96.1	76.9	115	Vitros	
µg/ml		24.3	19.4	29.2		
µmol/l		95.2	76.2	114	Roche Cobas 6000/8000	
µg/ml		24.0	19.2	28.8		
Primidone	µmol/l	103	82.4	124	EMIT	
	µg/ml	26.0	20.8	31.2		
	µmol/l	102	81.6	122	Siemens Atellica CH	
	µg/ml	25.8	20.6	31.0		
	µmol/l	102	81.6	122	Abbott Alinity	
	µg/ml	25.8	20.6	31.0		
	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	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	92.9	74.3	111	Abbott Architect
	ng/ml	29.1	23.3	34.9	
	nmol/l	145	116	174	BioMerieux Vidas
	ng/ml	45.4	36.3	54.5	
	nmol/l	74.3	59.4	89.2	Siemens Centaur XP/XPT/Classic
	ng/ml	23.3	18.6	28.0	
	nmol/l	77.0	61.6	92.4	Siemens Immulite 2000/2500
	ng/ml	24.1	19.3	28.9	
	nmol/l	78.0	62.4	93.6	Siemens Immulite 1000
	ng/ml	24.4	19.5	29.3	
	nmol/l	92.8	74.2	111	Beckman Dxl Prog Cal 33555
	ng/ml	29.0	23.2	34.8	
	nmol/l	100	80.0	120	Roche Elecsys (Prog. II)
	ng/ml	31.3	25.0	37.6	
	nmol/l	92.3	73.8	111	Beckman Access Prog Cal 33555
	ng/ml	28.9	23.1	34.7	
	nmol/l	108	86.4	130	Tosoh Series
	ng/ml	33.8	27.0	40.6	
	nmol/l	101	80.8	121	Vitros Eci
	ng/ml	31.6	25.3	37.9	
	nmol/l	101	80.8	121	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	31.6	25.3	37.9	
	nmol/l	101	80.8	121	Roche Cobas e601/602 (Prog. II)
	ng/ml	31.6	25.3	37.9	
	nmol/l	83.6	66.9	100	Diasorin Liaison
	ng/ml	26.2	20.9	31.5	
	nmol/l	87.6	70.1	105	Beckman Dxl Prog DE Cal A80773
	ng/ml	27.4	21.9	32.9	
	nmol/l	85.3	68.2	102	Beckman Access Prog DE Cal A80773
	ng/ml	26.7	21.3	32.1	
nmol/l	73.1	58.5	87.7	Siemens Centaur CP	
ng/ml	22.9	18.3	27.5		
nmol/l	100	80.0	120	Roche Cobas e601/602 (Prog. III)	
ng/ml	31.3	25.0	37.6		
nmol/l	101	80.8	121	Roche Elecsys (Prog. III)	
ng/ml	31.6	25.3	37.9		
nmol/l	101	80.8	121	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	31.6	25.3	37.9		
nmol/l	89.5	71.6	107	Diasorin Liaison XL	
ng/ml	28.0	22.4	33.6		
nmol/l	87.1	69.7	105	Abbott Alinity i	
ng/ml	27.3	21.8	32.8		
nmol/l	102	81.6	122	Roche Cobas e801 (Prog. III)	
ng/ml	31.9	25.5	38.3		
Prolactin	μU/ml	950	760	1140	Abbott Architect
	μU/ml	1013	810	1216	BioMerieux Vidas

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	794	635	953	Siemens Centaur XP/XPT/Classic
	µU/ml	832	666	998	Siemens Immulite 2000/2500
	µU/ml	942	754	1130	Siemens Immulite 1000
	µU/ml	769	615	923	Beckman Dxl800
	µU/ml	1033	826	1240	Roche Elecsys
	µU/ml	1036	829	1243	Diasorin Liaison
	µU/ml	807	646	968	Beckman Access
	µU/ml	864	691	1037	Tosoh Series
	µU/ml	818	654	982	Vitros ECi
	µU/ml	989	791	1187	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	944	755	1133	Immunotech IRMA
	µU/ml	1041	833	1249	Roche Cobas 4000/E411
	µU/ml	993	794	1192	Roche Cobas e601/602
	µU/ml	1042	834	1250	Fujirebio Lumipulse G Series
	µU/ml	760	608	912	Siemens Centaur CP
	µU/ml	1019	815	1223	Diasorin Liaison XL
	µU/ml	779	623	935	Siemens Atellica IM
µU/ml	991	793	1189	Abbott Alinity i	
µU/ml	992	794	1190	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	22.7	17.0	28.4	Abbott Architect
	ng/ml = µg/l	22.1	16.6	27.6	BioMerieux Vidas
	ng/ml = µg/l	17.9	13.4	22.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	14.8	11.1	18.5	Siemens Immulite 2000/2500
	ng/ml = µg/l	14.3	10.7	17.9	Siemens Immulite 1000
	ng/ml = µg/l	23.2	17.4	29.0	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	17.9	13.4	22.4	Roche Elecsys
	ng/ml = µg/l	22.6	17.0	28.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	18.0	13.5	22.5	Tosoh Series
	ng/ml = µg/l	18.0	13.5	22.5	Roche Cobas 4000/E411
	ng/ml = µg/l	17.6	13.2	22.0	Roche Cobas e601/602
	ng/ml = µg/l	16.7	12.5	20.9	Siemens Dimension Vista
	ng/ml = µg/l	20.7	15.5	25.9	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	17.4	13.1	21.8	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	14.5	10.9	18.1	Fujirebio Lumipulse G Series
	ng/ml = µg/l	16.8	12.6	21.0	Diasorin Liaison XL
	ng/ml = µg/l	19.3	14.5	24.1	Siemens Atellica IM
ng/ml = µg/l	21.0	15.8	26.3	Abbott Alinity i	
ng/ml = µg/l	16.9	12.7	21.1	Roche Cobas e402/e801	
PSA Total	ng/ml = µg/l	17.9	13.4	22.4	Abbott Architect
	ng/ml = µg/l	21.3	16.0	26.6	BioMerieux Vidas
	ng/ml = µg/l	21.6	16.2	27.0	bioMerieux VIDAS TPSA
	ng/ml = µg/l	21.4	16.1	26.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	18.0	13.5	22.5	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	19.5	14.6	24.4	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	22.1	16.6	27.6	Beckman Dxl standardisd to Hybritech
ng/ml = µg/l	17.4	13.1	21.8	Beckman Dxl800 standardised to WHO IRP96/670	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	22.6	17.0	28.3	Roche Elecsys
	ng/ml = µg/l	21.5	16.1	26.9	Diasorin Liaison
	ng/ml = µg/l	22.6	17.0	28.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	23.1	17.3	28.9	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	16.7	12.5	20.9	Tosoh Series
	ng/ml = µg/l	23.0	17.3	28.8	Vitros ECi
	ng/ml = µg/l	24.8	18.6	31.0	CIS RIA Coated tube
	ng/ml = µg/l	23.4	17.6	29.3	Roche Cobas 4000/E411
	ng/ml = µg/l	22.9	17.2	28.6	Roche Cobas e601/602
	ng/ml = µg/l	16.2	12.2	20.3	Fujirebio Lumipulse G Series
	ng/ml = µg/l	23.0	17.3	28.8	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	21.3	16.0	26.6	Siemens Centaur CP
	ng/ml = µg/l	22.1	16.6	27.6	Diasorin Liaison XL
	ng/ml = µg/l	22.8	17.1	28.5	Siemens Atellica IM
	ng/ml = µg/l	17.7	13.3	22.1	Abbott Alinity i
ng/ml = µg/l	22.0	16.5	27.5	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	2.97	2.38	3.56	Abbott Architect
	mg/dl	41.0	32.9	49.1	
	mmol/l	2.89	2.31	3.47	Roche Cobas c501/502/503
	mg/dl	39.9	31.9	47.9	
	mmol/l	2.97	2.38	3.56	EMIT
	mg/dl	41.0	32.9	49.1	
SHBG	nmol/l	38.6	30.9	46.3	Siemens Immulite 2000/2500
	nmol/l	42.9	34.3	51.5	Abbott Architect
	nmol/l	41.8	33.4	50.2	Beckman Access
	nmol/l	39.6	31.7	47.5	Beckman Dxl800
	nmol/l	39.5	31.6	47.4	Siemens Atellica IM
	nmol/l	38.5	30.8	46.2	Roche analysers - 413417/15
	nmol/l	37.0	29.6	44.4	Roche Cobas e801 - 413429
	nmol/l	41.4	33.1	49.7	Abbott Alinity i
T Uptake	%U	37.6	30.8	44.4	Siemens Immulite 2000
Testosterone	nmol/l	28.5	22.8	34.2	Abbott Architect
	ng/ml	8.21	6.57	9.85	
	ng/dl	821	657	985	
	nmol/l	26.2	21.0	31.4	BioMerieux Vidas
	ng/ml	7.55	6.05	9.05	
	ng/dl	755	605	905	
	nmol/l	25.4	20.3	30.5	Siemens Centaur XP/XPT/Classic
	ng/ml	7.32	5.85	8.79	
	ng/dl	732	585	879	
	nmol/l	28.1	22.5	33.7	CIS RIA Coated tube
	ng/ml	8.09	6.48	9.70	
	ng/dl	809	648	970	
nmol/l	33.0	26.4	39.6	Siemens Immulite 2000/2500	
ng/ml	9.50	7.60	11.4		
ng/dl	950	760	1140		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	40.7	32.6	48.8	Siemens Immulite 1000
	ng/ml	11.7	9.39	14.0	
	ng/dl	1172	939	1405	
	nmol/l	24.0	19.2	28.8	Beckman Dxl800
	ng/ml	6.91	5.53	8.29	
	ng/dl	691	553	829	
	nmol/l	26.3	21.0	31.6	Beckman Access
	ng/ml	7.57	6.05	9.09	
	ng/dl	757	605	909	
	nmol/l	38.5	30.8	46.2	Tosoh Series
	ng/ml	11.1	8.87	13.3	
	ng/dl	1109	887	1331	
	nmol/l	38.8	31.0	46.6	Vitros ECI
	ng/ml	11.2	8.93	13.5	
	ng/dl	1117	893	1341	
	nmol/l	28.7	23.0	34.4	Roche Cobas e601/602 Test II
	ng/ml	8.27	6.62	9.92	
	ng/dl	827	662	992	
	nmol/l	29.1	23.3	34.9	Roche Elecsys Test II
	ng/ml	8.38	6.71	10.1	
	ng/dl	838	671	1005	
	nmol/l	28.6	22.9	34.3	Roche Cobas 4000/e411 Test II
	ng/ml	8.24	6.60	9.88	
	ng/dl	824	660	988	
nmol/l	28.3	22.6	34.0	Abbott Architect 2nd Generation	
ng/ml	8.15	6.51	9.79		
ng/dl	815	651	979		
nmol/l	26.8	21.4	32.2	BioMerieux Vidas Testosterone II	
ng/ml	7.72	6.16	9.28		
ng/dl	772	616	928		
nmol/l	26.0	20.8	31.2	Siemens Centaur TST II	
ng/ml	7.49	5.99	8.99		
ng/dl	749	599	899		
nmol/l	26.3	21.0	31.6	Siemens Atellica IM	
ng/ml	7.57	6.05	9.09		
ng/dl	757	605	909		
nmol/l	28.6	22.9	34.3	Roche Cobas e801 Test II	
ng/ml	8.24	6.60	9.88		
ng/dl	824	660	988		
nmol/l	29.0	23.2	34.8	Abbott Alinity i	
ng/ml	8.35	6.68	10.0		
ng/dl	835	668	1002		
Theophylline	µmol/l	156	125	187	Siemens Centaur XP/XPT/Classic
	µg/ml	28.1	22.5	33.7	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Theophylline	µmol/l	155	124	186	Siemens Dimension
	µg/ml	27.9	22.3	33.5	
	µmol/l	168	134	202	Roche Integra
	µg/ml	30.3	24.1	36.5	
	µmol/l	154	123	185	Abbott Architect (CMIA)
	µg/ml	27.8	22.2	33.4	
	µmol/l	166	133	199	Roche Cobas 6000/8000
	µg/ml	29.9	24.0	35.8	
Thyroglobulin	µmol/l	157	126	188	Abbott Alinity Enzyme-Immu
	µg/ml	28.3	22.7	33.9	
	µmol/l	166	133	199	Gravimetric
	µg/ml	29.9	24.0	35.9	
	ng/ml	40.2	30.2	50.3	Siemens Immulite 1000
	ng/ml	36.7	27.5	45.9	Siemens Immulite 2000
	ng/ml	65.2	48.9	81.5	Roche Elecsys
	ng/ml	61.7	46.3	77.1	Beckman Dxl800
	ng/ml	68.6	51.5	85.8	Roche Cobas 4000/E411
	ng/ml	57.6	43.2	72.0	Diesse Chorus
	ng/ml	65.7	49.3	82.1	Roche Cobas e601/602
	ng/ml	62.7	47.0	78.4	Beckman Access
	ng/ml	76.1	57.1	95.1	Abbott Architect 2000i
	ng/ml	70.1	52.6	87.6	Tosoh Series
	ng/ml	66.3	49.7	82.9	Roche Cobas e601/602 Tg II
	ng/ml	69.9	52.4	87.4	Roche Elecsys TGII
ng/ml	67.1	50.3	83.9	Roche Cobas 4000/E411 TGII	
ng/ml	68.2	51.2	85.3	Roche Cobas e801 Tg II	
ng/ml	64.1	48.1	80.1	DiaSorin Liaison TG II Gen	
ng/ml	65.8	49.4	82.3	DiaSorin Liaison XL TG II Gen	
ng/ml	74.3	55.7	92.9	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	17.8	14.2	21.4	Abbott Architect
	µU/ml = mIU/l	21.5	17.2	25.8	bioMerieux VIDAS TSH
	µU/ml = mIU/l	19.5	15.6	23.4	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	21.4	17.1	25.7	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	22.3	17.8	26.8	CIS IRMA
	µU/ml = mIU/l	21.6	17.3	25.9	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	20.9	16.7	25.1	Siemens Immulite 2000/2500
	µU/ml = mIU/l	21.1	16.9	25.3	Siemens Immulite 1000
	µU/ml = mIU/l	18.8	15.0	22.6	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	19.2	15.4	23.0	Beckman Dxl800
	µU/ml = mIU/l	20.2	16.2	24.2	Roche Elecsys
	µU/ml = mIU/l	24.7	19.8	29.6	Diasorin Liaison
	µU/ml = mIU/l	19.9	15.9	23.9	Beckman Access Fast TSH
	µU/ml = mIU/l	19.3	15.4	23.2	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	22.3	17.8	26.8	Tosoh Series
	µU/ml = mIU/l	25.9	20.7	31.1	Vitros ECi
µU/ml = mIU/l	20.7	16.6	24.8	Roche Cobas 4000/E411	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	20.7	16.6	24.8	Roche Cobas e601/602
	µU/ml = mIU/l	19.5	15.6	23.4	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	19.8	15.8	23.8	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	22.4	17.9	26.9	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	20.7	16.6	24.8	Siemens Centaur CP
	µU/ml = mIU/l	21.6	17.3	25.9	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	19.2	15.4	23.0	Beckman Dxl 600/800 Access (3rd IS)
	µU/ml = mIU/l	25.0	20.0	30.0	Diasorin Liaison XL
	µU/ml = mIU/l	21.6	17.3	25.9	Siemens Atellica IM
	µU/ml = mIU/l	17.7	14.2	21.2	Abbott Alinity i
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	264	211	317	Abbott Architect
	IU/ml	0.264	0.211	0.317	
	mU/ml=IU/l	486	389	583	BioMerieux Vidas
	IU/ml	0.486	0.389	0.583	
	mU/ml=IU/l	231	185	277	Siemens Centaur XP/XPT/Classic
	IU/ml	0.231	0.185	0.277	
	mU/ml=IU/l	484	387	581	Siemens Dimension
	IU/ml	0.484	0.387	0.581	
	mU/ml=IU/l	562	450	674	Siemens Immulite 2000
	IU/ml	0.562	0.450	0.674	
	mU/ml=IU/l	587	470	704	Siemens Immulite 1000
	IU/ml	0.587	0.470	0.704	
	mU/ml=IU/l	269	215	323	Beckman Dxl800
	IU/ml	0.269	0.215	0.323	
	mU/ml=IU/l	234	187	281	Diasorin Liaison
	IU/ml	0.234	0.187	0.281	
	mU/ml=IU/l	332	266	398	Roche Cobas Core EIA
	IU/ml	0.332	0.266	0.398	
	mU/ml=IU/l	259	207	311	Beckman Access
	IU/ml	0.259	0.207	0.311	
	mU/ml=IU/l	491	393	589	Tosoh Series
	IU/ml	0.491	0.393	0.589	
	mU/ml=IU/l	490	392	588	Vitros ECI
	IU/ml	0.490	0.392	0.588	
	mU/ml=IU/l	235	188	282	Roche hCG STAT (Intact)
	IU/ml	0.235	0.188	0.282	
	mU/ml=IU/l	325	260	390	Roche hCG+Beta
	IU/ml	0.325	0.260	0.390	
mU/ml=IU/l	257	206	308	Beckman Access Total BhCG (5th IS)	
IU/ml	0.257	0.206	0.308		
mU/ml=IU/l	267	214	320	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.267	0.214	0.320		
mU/ml=IU/l	224	179	269	Siemens Centaur CP	
IU/ml	0.224	0.179	0.269		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	255	204	306	Diasorin Liaison XL
	IU/ml	0.255	0.204	0.306	
	mU/ml=IU/l	247	198	296	Siemens Atellica IM
	IU/ml	0.247	0.198	0.296	
	mU/ml=IU/l	269	215	323	Abbott Alinity i
	IU/ml	0.269	0.215	0.323	
Total T3	mU/ml=IU/l	304	243	365	Roche hCG+Beta e801
	IU/ml	0.304	0.243	0.365	
	nmol/l	5.27	3.95	6.59	Abbott Architect
	ng/ml	3.43	2.57	4.29	
	ng/dl	343	257	429	
	nmol/l	5.92	4.44	7.40	BioMerieux Vidas
	ng/ml	3.85	2.89	4.81	
	ng/dl	385	289	481	
	nmol/l	7.00	5.25	8.75	Siemens Centaur XP/XPT/Classic
	ng/ml	4.56	3.42	5.70	
	ng/dl	456	342	570	
	nmol/l	6.27	4.70	7.84	Siemens Immulite 2000/2500
	ng/ml	4.08	3.06	5.10	
	ng/dl	408	306	510	
	nmol/l	6.04	4.53	7.55	Siemens Immulite 1000
	ng/ml	3.93	2.95	4.91	
	ng/dl	393	295	491	
	nmol/l	6.06	4.55	7.58	Beckman Dxl800
	ng/ml	3.95	2.96	4.94	
	ng/dl	395	296	494	
	nmol/l	5.83	4.37	7.29	Roche Elecsys
	ng/ml	3.80	2.84	4.76	
	ng/dl	380	284	476	
	nmol/l	6.08	4.56	7.60	Beckman Access
ng/ml	3.96	2.97	4.95		
ng/dl	396	297	495		
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	7.64	5.73	9.55	Vitros ECi	
ng/ml	4.97	3.73	6.21		
ng/dl	497	373	621		
nmol/l	5.51	4.13	6.89	CIS RIA Coated tube	
ng/ml	3.59	2.69	4.49		
ng/dl	359	269	449		
nmol/l	6.17	4.63	7.71	Roche Cobas 4000/E411	
ng/ml	4.02	3.01	5.03		
ng/dl	402	301	503		
nmol/l	6.05	4.54	7.56	Roche Cobas e601/602	
ng/ml	3.94	2.96	4.92		
ng/dl	394	296	492		



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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Total T3	nmol/l	7.61	5.71	9.51	Siemens Centaur CP	
	ng/ml	4.95	3.72	6.18		
	ng/dl	495	372	618		
	nmol/l	5.20	3.90	6.50	Diasorin Liaison XL	
		ng/ml	3.39	2.54		4.24
		ng/dl	339	254		424
	nmol/l	5.29	3.97	6.61	Abbott Alinity i	
		ng/ml	3.44	2.58		4.30
		ng/dl	344	258		430
	nmol/l	6.84	5.13	8.55	Siemens Atellica IM	
		ng/ml	4.45	3.34		5.56
		ng/dl	445	334		556
nmol/l	6.42	4.82	8.03	Roche Cobas e402/e801		
	ng/ml	4.18	3.14		5.22	
	ng/dl	418	314		522	
Total T4	nmol/l	201	151	251	Abbott Architect	
	µg/dl	15.7	11.8	19.6		
	ng/ml	157	118	196		
	nmol/l	210	158	263	BioMerieux Vidas	
		µg/dl	16.4	12.3		20.5
		ng/ml	164	123		205
	nmol/l	215	161	269	Siemens Centaur XP/XPT/Classic	
		µg/dl	16.8	12.6		21.0
		ng/ml	168	126		210
	nmol/l	200	150	250	Siemens Immulite 2000/2500	
		µg/dl	15.6	11.7		19.5
		ng/ml	156	117		195
	nmol/l	186	140	233	Siemens Immulite 1000	
		µg/dl	14.5	10.9		18.1
		ng/ml	145	109		181
	nmol/l	218	164	273	Beckman Dxl800	
		µg/dl	17.0	12.8		21.2
		ng/ml	170	128		212
	nmol/l	176	132	220	Roche Elecsys	
		µg/dl	13.7	10.3		17.1
		ng/ml	137	103		171
	nmol/l	206	155	258	Beckman Access	
		µg/dl	16.1	12.1		20.1
		ng/ml	161	121		201
nmol/l	194	146	243	Tosoh Series		
	µg/dl	15.1	11.4		18.8	
	ng/ml	151	114		188	
nmol/l	220	165	275	Vitros ECi		
	µg/dl	17.2	12.9		21.5	
	ng/ml	172	129		215	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	262	197	328	CIS RIA Coated tube
	µg/dl	20.4	15.4	25.4	
	ng/ml	204	154	254	
	nmol/l	179	134	224	Roche Cobas 4000/E411
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
	nmol/l	179	134	224	Roche Cobas e601/602
	µg/dl	14.0	10.5	17.5	
	ng/ml	140	105	175	
	nmol/l	159	119	199	Immunotech IRMA
	µg/dl	12.4	9.28	15.5	
	ng/ml	124	92.8	155	
	nmol/l	224	168	280	Siemens Centaur CP
	µg/dl	17.5	13.1	21.9	
	ng/ml	175	131	219	
	nmol/l	195	146	244	Diasorin Liaison XL
	µg/dl	15.2	11.4	19.0	
	ng/ml	152	114	190	
nmol/l	196	147	245	Abbott Alinity i	
µg/dl	15.3	11.5	19.1		
ng/ml	153	115	191		
nmol/l	230	173	288	Siemens Atellica IM	
µg/dl	17.9	13.5	22.3		
ng/ml	179	135	223		
nmol/l	178	134	223	Roche Cobas e402/e801	
µg/dl	13.9	10.5	17.3		
ng/ml	139	105	173		
Valproic Acid	µmol/l	913	730	1096	Abbott Architect (CMIA)
	µg/ml	132	105	159	
	µmol/l	974	779	1169	Siemens Centaur XP/XPT/Classic
	µg/ml	141	112	170	
	µmol/l	919	735	1103	Siemens Dimension
	µg/ml	133	106	160	
	µmol/l	989	791	1187	Siemens Immulite 2000/2500
	µg/ml	143	114	172	
	µmol/l	975	780	1170	Siemens Immulite 1000
	µg/ml	141	113	169	
	µmol/l	920	736	1104	Roche Integra
	µg/ml	133	106	160	
	µmol/l	920	736	1104	Vitros
	µg/ml	133	106	160	
	µmol/l	911	729	1093	Roche Cobas 6000/8000
µg/ml	131	105	157		
µmol/l	964	771	1157	Beckman DxC	
µg/ml	139	111	167		

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	960	768	1152	Beckman AU400/600/640/2700/5400
	µg/ml	139	111	167	
	µmol/l	907	726	1088	Abbott Architect (PETINA)
	µg/ml	131	105	157	
	µmol/l	968	774	1162	EMIT
	µg/ml	140	112	168	
	µmol/l	908	726	1090	Siemens Atellica CH
	µg/ml	131	105	157	
	µmol/l	926	741	1111	Abbott Alinity (CMIA)
	µg/ml	134	107	161	
	µmol/l	893	714	1072	Abbott Alinity (PETINA)
	µg/ml	129	103	155	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
Vancomycin	µmol/l	12.1	9.68	14.5	Roche Integra
	µg/ml	18.0	14.4	21.6	
	µmol/l	9.50	7.60	11.4	Ortho Vitros Microslide Systems
	µg/ml	14.1	11.3	16.9	
	µmol/l	12.6	10.1	15.1	Abbott Architect (CMIA)
	µg/ml	18.7	15.0	22.4	
	µmol/l	10.2	8.16	12.2	Siemens Centaur XP/XPT/Classic
	µg/ml	15.2	12.1	18.3	
	µmol/l	11.6	9.28	13.9	Siemens Dimension
	µg/ml	17.2	13.8	20.6	
	µmol/l	11.3	9.04	13.6	Roche Cobas 6000/8000
	µg/ml	16.8	13.4	20.2	
	µmol/l	11.6	9.28	13.9	Thermo Scientific QMS Vancomycin
	µg/ml	17.2	13.8	20.6	
	µmol/l	11.1	8.88	13.3	Siemens Atellica CH
	µg/ml	16.5	13.2	19.8	
	µmol/l	11.0	8.80	13.2	Abbott Alinity (PETINA)
	µg/ml	16.3	13.1	19.5	
µmol/l	10.8	8.64	13.0	Gravimetric	
µg/ml	16.0	12.8	19.3		
Vitamin B12	pmol/l	509	407	611	Abbott Architect
	pg/ml	690	551	829	
	pmol/l	681	545	817	Siemens Centaur XP/XPT/Classic
	pg/ml	923	738	1108	
	pmol/l	638	510	766	Siemens Immulite 2000
	pg/ml	864	691	1037	
	pmol/l	526	421	631	Beckman DxI800
	pg/ml	713	570	856	
	pmol/l	638	510	766	Roche Elecsys
	pg/ml	864	691	1037	
	pmol/l	540	432	648	Beckman Access
	pg/ml	732	585	879	

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

Cat. No. IA3111 / IA3112 Lot. No. 2147EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	810	648	972	Tosoh Series
	pg/ml	1098	878	1318	
	pmol/l	627	502	752	Vitros ECI
	pg/ml	850	680	1020	
	pmol/l	585	468	702	Siemens Dimension
	pg/ml	793	634	952	
	pmol/l	788	630	946	Siemens Centaur CP
	pg/ml	1068	854	1282	
	pmol/l	636	509	763	Roche Cobas 4000/e411 Gen II
	pg/ml	862	690	1034	
	pmol/l	655	524	786	Roche Cobas e601/602 Gen II
	pg/ml	888	710	1066	
	pmol/l	563	450	676	Diasorin Liaison XL
	pg/ml	763	610	916	
	pmol/l	746	597	895	Siemens Atellica IM
	pg/ml	1011	809	1213	
	pmol/l	428	342	514	Abbott Alinity i
	pg/ml	580	463	697	
pmol/l	665	532	798	Roche Cobas e801 Gen II	
pg/ml	901	721	1081		