

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.	2198EC	EXPIRY:	2024-12-28		

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

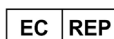
MATERIAL REQUIRED BUT NOT PROVIDED

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. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

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



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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	39.2	29.4	49.0	Immunotech RIA
	ng/ml	13.0	9.73	16.3	
	nmol/l	49.2	36.9	61.5	ELISA
	ng/ml	16.3	12.2	20.4	
	nmol/l	42.2	31.7	52.8	Novatec ELISA
	ng/ml	14.0	10.5	17.5	
	nmol/l	53.6	40.2	67.0	DRG ELISA
	ng/ml	17.7	13.3	22.1	
	nmol/l	40.5	30.4	50.6	DIAsource RIA
	ng/ml	13.4	10.1	16.7	
25-OH Vitamin D	nmol/l	59.1	44.3	73.9	DIAsource ELISA
	ng/ml	19.6	14.7	24.5	
	nmol/l	57.9	43.4	72.4	LC/MS
	ng/ml	19.2	14.4	24.0	
	nmol/l	27.9	20.9	34.9	IDS-Isys 17-OH Progesterone
	ng/ml	9.23	6.92	11.5	
	nmol/l	107	80.3	134	Diasorin Liaison
	nmol/l	140	105	175	Siemens Centaur XP/XPT/Classic
	nmol/l	94.2	70.7	118	Roche Vitamin D Total
	nmol/l	103	77.3	129	Abbott Architect (3L52)
ACTH	nmol/l	109	81.8	136	Vitros ECi
	nmol/l	84.8	63.6	106	Tosoh Series
	nmol/l	100	75.0	125	BioMerieux Vidas
	nmol/l	88.6	66.5	111	Beckman Dxl 600/800
	nmol/l	120	90.0	150	Fujirebio Lumipulse G Series
	nmol/l	90.3	67.7	113	Beckman Access 25 OH Vitamin D Total
	nmol/l	111	83.3	139	LC/MS
	nmol/l	102	76.5	128	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	107	80.3	134	Diasorin Liaison XL
	nmol/l	107	80.3	134	Roche Vitamin D Total II
	nmol/l	107	80.3	134	Abbott Alinity i
	nmol/l	143	107	179	Siemens Atellica IM
	nmol/l	102	76.5	128	Roche Vitamin D Total II e801
	pmol/l	49.0	36.8	61.3	Siemens Immulite 2000/2500
pg/ml	223	167	279		
pmol/l	28.1	21.1	35.1	Roche Cobas 4000/E411	
pg/ml	128	95.9	160		
pmol/l	52.0	39.0	65.0	Siemens Immulite 1000	
pg/ml	236	177	295		
pmol/l	29.9	22.4	37.4	Roche Cobas e402/e801	
pg/ml	136	102	170		
pmol/l	16.7	12.5	20.9	Tosoh AIA-CL Series	
pg/ml	75.9	56.8	95.0		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Aldosterone	pmol/l	1111	833	1389	DRG ELISA	
	pg/ml	401	301	501		
	pmol/l	265	199	331	CIS RIA	
	pg/ml	95.6	71.8	119		
	pmol/l	814	611	1018	IDS iSYS	
	pg/ml	294	220	368		
	pmol/l	667	500	834	Diasorin Liaison	
	pg/ml	241	180	302		
	pmol/l	688	516	860	Diasorin Liaison XL	
	pg/ml	248	186	310		
	Alphafoetoprotein	KIU/l = IU/ml	167	134	200	Abbott AFP-EIA
		ng/ml	202	162	242	
KIU/l = IU/ml		166	133	199	Abbott Architect	
ng/ml		201	161	241		
KIU/l = IU/ml		188	150	226	BioMerieux Vidas	
ng/ml		227	182	272		
KIU/l = IU/ml		192	154	230	Siemens Centaur XP/XPT/Classic	
ng/ml		232	186	278		
KIU/l = IU/ml		172	138	206	Siemens Immulite 2000/2500	
ng/ml		208	167	249		
KIU/l = IU/ml		184	147	221	Siemens Immulite 1000	
ng/ml		223	178	268		
KIU/l = IU/ml		158	126	190	Beckman DxI800	
ng/ml		191	152	230		
KIU/l = IU/ml		181	145	217	Roche Elecsys	
ng/ml		219	175	263		
KIU/l = IU/ml		173	138	208	Diasorin Liaison	
ng/ml		209	167	251		
KIU/l = IU/ml		165	132	198	Beckman Access	
ng/ml		200	160	240		
KIU/l = IU/ml		157	126	188	Tosoh Series	
ng/ml		190	152	228		
KIU/l = IU/ml		176	141	211	Vitros ECI	
ng/ml		183	146	220		
KIU/l = IU/ml		187	150	224	Roche Cobas e601/602	
ng/ml		226	182	270		
KIU/l = IU/ml		263	210	316	CIS IRMA	
ng/ml		318	254	382		
KIU/l = IU/ml		189	151	227	Roche Cobas 4000/E411	
ng/ml		229	183	275		
KIU/l = IU/ml	181	145	217	Fujirebio Lumipulse G Series		
ng/ml	219	175	263			
KIU/l = IU/ml	177	142	212	Siemens Dimension		
ng/ml	214	172	256			
KIU/l = IU/ml	185	148	222	Siemens Centaur CP		
ng/ml	224	179	269			

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Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Alphafoetoprotein	KIU/l = IU/ml	199	159	239	Sysmex HISCL Series	
	ng/ml	241	192	290		
	KIU/l = IU/ml	183	146	220	Diasorin Liaison XL	
	ng/ml	221	177	265		
	KIU/l = IU/ml	188	150	226	Siemens Atellica IM	
	ng/ml	227	182	272		
	KIU/l = IU/ml	165	132	198	Abbott Alinity i	
ng/ml	200	160	240			
KIU/l = IU/ml	179	143	215	Roche Cobas e402/e801		
ng/ml	217	173	261			
Amikacin	KIU/l = IU/ml	158	126	190	Tosoh AIA-CL Series	
	ng/ml	191	152	230		
	µmol/l	21.8	17.4	26.2	EMIT	
	µg/ml	12.8	10.2	15.4		
	µmol/l	23.1	18.5	27.7	Roche Cobas 6000/8000	
	µg/ml	13.5	10.8	16.2		
	µmol/l	24.5	19.6	29.4	Abbott Architect	
µg/ml	14.3	11.5	17.1			
µmol/l	24.0	19.2	28.8	Thermo Scientific QMS Amikacin		
µg/ml	14.1	11.2	17.0			
Androstenedione	µmol/l	24.9	19.9	29.9	Abbott Alinity	
	µg/ml	14.6	11.7	17.5		
	µmol/l	24.1	19.3	28.9	Gravimetric	
	µg/ml	14.1	11.3	16.9		
	Beta-2-microglobulin	nmol/l	24.0	18.0	30.0	Beckman Coulter RIA
		ng/ml	6.89	5.17	8.61	
		nmol/l	23.3	17.5	29.1	DRG ELISA
ng/ml		6.69	5.02	8.36		
nmol/l		24.1	18.1	30.1	LC/MS	
ng/ml		6.92	5.19	8.65		
nmol/l		32.3	24.2	40.4	Diasorin Liaison XL	
ng/ml	9.27	6.95	11.6			
C-Peptide	µg/ml = mg/l	6.81	5.45	8.17	Abbott Architect	
	µg/ml = mg/l	6.93	5.54	8.32	BioMerieux Vidas	
	µg/ml = mg/l	6.72	5.38	8.06	Behring Nephelometer	
	µg/ml = mg/l	5.76	4.61	6.91	Siemens Immulite 2000/2500	
	µg/ml = mg/l	6.61	5.29	7.93	Tosoh Series	
	µg/ml = mg/l	6.46	5.17	7.75	Roche Cobas 6000/8000	
	µg/ml = mg/l	5.55	4.44	6.66	Fujirebio Lumipulse G Series	
	µg/ml = mg/l	6.23	4.98	7.48	Diasorin Liaison XL	
	µg/ml = mg/l	7.43	5.94	8.92	Siemens Atellica CH	
µg/ml = mg/l	6.80	5.44	8.16	Abbott Alinity		
C-Peptide	nmol/l	3.390	2.540	4.240	Siemens Immulite 2000/2500	
	ng/ml	10.2	7.67	12.7		
	nmol/l	3.220	2.420	4.030	Roche Elecsys	
ng/ml	9.72	7.31	12.1			

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Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	3.260	2.450	4.080	Roche Cobas e601/602
	ng/ml	9.84	7.40	12.3	
	nmol/l	3.710	2.780	4.640	Siemens Immulite 1000
	ng/ml	11.2	8.39	14.0	
	nmol/l	3.220	2.420	4.030	Diasorin Liaison
	ng/ml	9.72	7.31	12.1	
	nmol/l	3.290	2.470	4.110	Roche Cobas 4000/E411
	ng/ml	9.93	7.46	12.4	
	nmol/l	3.070	2.300	3.840	Abbott Architect
	ng/ml	9.27	6.94	11.6	
	nmol/l	2.370	1.780	2.960	Siemens Centaur XP/XPT/Classic
	ng/ml	7.16	5.37	8.95	
	nmol/l	2.860	2.150	3.580	Tosoh Series
	ng/ml	8.63	6.49	10.8	
	nmol/l	3.460	2.600	4.330	Diasorin Liaison XL
	ng/ml	10.4	7.85	13.0	
	nmol/l	3.180	2.390	3.980	Roche Cobas e402/e801
	ng/ml	9.60	7.22	12.0	
	nmol/l	2.290	1.720	2.860	Siemens Atellica IM
	ng/ml	6.91	5.19	8.63	
nmol/l	3.050	2.290	3.810	Vitros ECi	
ng/ml	9.21	6.91	11.5		
nmol/l	3.530	2.650	4.410	Tosoh AIA-CL Series	
ng/ml	10.7	8.00	13.4		
nmol/l	2.120	1.590	2.650	Beckman Access	
ng/ml	6.40	4.80	8.00		
nmol/l	2.900	2.180	3.630	Abbott Alinity i	
ng/ml	8.76	6.58	10.9		
CA 15-3	U/ml	114	91.2	137	Abbott Architect
	U/ml	68.1	54.5	81.7	BioMerieux Vidas
	U/ml	76.0	60.8	91.2	Siemens Centaur XP/XPT/Classic
	U/ml	83.9	67.1	101	Siemens Immulite 2000/2500
	U/ml	103	82.4	124	Siemens Immulite 1000
	U/ml	33.1	26.5	39.7	Beckman Dxl800
	U/ml	75.9	60.7	91.1	Roche Elecsys
	U/ml	82.5	66.0	99.0	Diasorin Liaison
	U/ml	32.4	25.9	38.9	Beckman Access
	U/ml	94.2	75.4	113	Tosoh Series
	U/ml	67.9	54.3	81.5	Vitros ECi
	U/ml	74.9	59.9	89.9	Roche Cobas e601/602
	U/ml	75.0	60.0	90.0	Roche Cobas 4000/E411
	U/ml	88.3	70.6	106	Fujirebio Lumipulse G Series
	U/ml	78.6	62.9	94.3	Siemens Centaur CP
	U/ml	87.7	70.2	105	Diasorin Liaison XL
	U/ml	84.2	67.4	101	Siemens Atellica IM

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
CA 15-3	U/ml	71.6	57.3	85.9	Roche Cobas e402/e801
	U/ml	108	86.4	130	Abbott Alinity i
CA 19-9	U/ml	285	228	342	BioMerieux Vidas
	U/ml	339	271	407	Siemens Centaur XP/XPT/Classic
	U/ml	361	289	433	Siemens Immulite 2000/2500
	U/ml	347	278	416	Beckman Dxl800
	U/ml	160	128	192	Roche Elecsys
	U/ml	311	249	373	Diasorin Liaison
	U/ml	388	310	466	Beckman Access
	U/ml	130	104	156	Tosoh Series
	U/ml	354	283	425	Vitros ECI
	U/ml	519	415	623	Abbott Architect XR/XR2/XRL
	U/ml	162	130	194	Roche Cobas e601/602
	U/ml	164	131	197	Roche Cobas 4000/E411
	U/ml	347	278	416	Fujirebio Lumipulse G Series
	U/ml	206	165	247	Izotop RIA
	U/ml	261	209	313	Siemens Centaur CP
	U/ml	302	242	362	Diasorin Liaison XL
	U/ml	340	272	408	Siemens Atellica IM
	U/ml	162	130	194	Roche Cobas e402/e801
	U/ml	528	422	634	Abbott Alinity XR/XR2/XRL
CA125	U/ml	241	193	289	Abbott Architect
	U/ml	197	158	236	BioMerieux Vidas
	U/ml	201	161	241	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	206	165	247	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	176	141	211	Siemens Immulite 2000/2500
	U/ml	208	166	250	Siemens Immulite 1000
	U/ml	158	126	190	Beckman Dxl800
	U/ml	176	141	211	Roche Elecsys
	U/ml	157	126	188	Beckman Access
	U/ml	330	264	396	Tosoh Series
	U/ml	188	150	226	Vitros ECI
	U/ml	182	146	218	Roche Cobas 4000/E411
	U/ml	183	146	220	Roche Cobas e601/602
	U/ml	159	127	191	Fujirebio Lumipulse G Series
	U/ml	199	159	239	Siemens Centaur CP CA125 II kit
	U/ml	199	159	239	Siemens Centaur CP OV kit
	U/ml	242	194	290	Diasorin Liaison XL
	U/ml	232	186	278	Siemens Atellica IM
	U/ml	175	140	210	Roche Cobas e402/e801
U/ml	247	198	296	Abbott Alinity i	
Carbamazepine	µmol/l	71.0	56.8	85.2	Abbott Architect (CMIA)
	µg/ml	16.8	13.4	20.2	
	µmol/l	72.8	58.2	87.4	Siemens Centaur XP/XPT/Classic
	µg/ml	17.2	13.8	20.6	
	µmol/l	64.9	51.9	77.9	Siemens Dimension
µg/ml	15.3	12.3	18.3		

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Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	59.9	47.9	71.9	Siemens Immulite 2000/2500
	µg/ml	14.2	11.3	17.1	
	µmol/l	73.7	59.0	88.4	Siemens Immulite 1000
	µg/ml	17.4	13.9	20.9	
	µmol/l	74.6	59.7	89.5	Roche Integra
	µg/ml	17.6	14.1	21.1	
	µmol/l	67.3	53.8	80.8	Vitros
	µg/ml	15.9	12.7	19.1	
	µmol/l	70.6	56.5	84.7	Roche Cobas 6000/8000
	µg/ml	16.7	13.4	20.0	
	µmol/l	71.1	56.9	85.3	Beckman DxC
	µg/ml	16.8	13.5	20.1	
	µmol/l	74.2	59.4	89.0	Beckman AU400/600/640/2700/5400
	µg/ml	17.5	14.0	21.0	
	µmol/l	56.3	45.0	67.6	Abbott Architect (PETINA)
	µg/ml	13.3	10.6	16.0	
	µmol/l	79.5	63.6	95.4	EMIT
	µg/ml	18.8	15.0	22.6	
µmol/l	67.0	53.6	80.4	Siemens Atellica CH	
µg/ml	15.8	12.7	18.9		
µmol/l	49.5	39.6	59.4	Abbott Alinity (PETINA)	
µg/ml	11.7	9.36	14.0		
µmol/l	72.2	57.8	86.6	Gravimetric	
µg/ml	17.1	13.7	20.5		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	77.6	62.1	93.1	Abbott Architect
	ng/ml = µg/l	58.3	46.6	70.0	BioMerieux Vidas
	ng/ml = µg/l	54.5	43.6	65.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	55.0	44.0	66.0	CIS RIA Coated tube
	ng/ml = µg/l	81.1	64.9	97.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	81.5	65.2	97.8	Siemens Immulite 1000
	ng/ml = µg/l	53.8	43.0	64.6	Beckman Dxl800
	ng/ml = µg/l	52.4	41.9	62.9	Roche Elecsys
	ng/ml = µg/l	52.2	41.8	62.6	Diasorin Liaison
	ng/ml = µg/l	57.0	45.6	68.4	Beckman Access
	ng/ml = µg/l	86.6	69.3	104	Tosoh Series
	ng/ml = µg/l	65.8	52.6	79.0	Vitros ECi
	ng/ml = µg/l	51.6	41.3	61.9	Roche Cobas e601/602
	ng/ml = µg/l	51.9	41.5	62.3	Roche Cobas 4000/E411
	ng/ml = µg/l	72.7	58.2	87.2	Fujirebio Lumipulse G Series
	ng/ml = µg/l	54.4	43.5	65.3	Siemens Centaur CP
	ng/ml = µg/l	55.4	44.3	66.5	Diasorin Liaison XL
	ng/ml = µg/l	53.4	42.7	64.1	Siemens Atellica IM
ng/ml = µg/l	52.5	42.0	63.0	Roche Cobas e402/e801	
ng/ml = µg/l	76.5	61.2	91.8	Abbott Alinity i	
Cortisol	nmol/l	861	646	1076	Abbott Architect
	µg/dl	31.0	23.3	38.7	

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Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	1010	758	1263	BioMerieux Vidas
	µg/dl	36.4	27.3	45.5	
	nmol/l	1093	820	1366	Siemens Centaur XP/XPT/Classic
	µg/dl	39.3	29.5	49.1	
	nmol/l	789	592	986	CIS RIA
	µg/dl	28.4	21.3	35.5	
	nmol/l	863	647	1079	Siemens Immulite 2000/2500
	µg/dl	31.1	23.3	38.9	
	nmol/l	908	681	1135	Siemens Immulite 1000
	µg/dl	32.7	24.5	40.9	
	nmol/l	984	738	1230	Beckman Dxl800
	µg/dl	35.4	26.6	44.2	
	nmol/l	900	675	1125	Roche Elecsys
	µg/dl	32.4	24.3	40.5	
	nmol/l	1058	794	1323	Beckman Access
	µg/dl	38.1	28.6	47.6	
	nmol/l	1042	782	1303	Tosoh Series
	µg/dl	37.5	28.2	46.8	
	nmol/l	898	674	1123	Vitros ECi
	µg/dl	32.3	24.3	40.3	
nmol/l	961	721	1201	Roche Cobas e601/602	
µg/dl	34.6	26.0	43.2		
nmol/l	990	743	1238	Roche Cobas 4000/E411	
µg/dl	35.6	26.7	44.5		
nmol/l	1192	894	1490	Siemens Centaur CP	
µg/dl	42.9	32.2	53.6		
nmol/l	988	741	1235	Roche Cobas 4000/e411 Gen II	
µg/dl	35.6	26.7	44.5		
nmol/l	945	709	1181	Roche Cobas e601/602 Gen II	
µg/dl	34.0	25.5	42.5		
nmol/l	955	716	1194	Roche Elecsys Gen II	
µg/dl	34.4	25.8	43.0		
nmol/l	1038	779	1298	Diasorin Liaison XL	
µg/dl	37.4	28.0	46.8		
nmol/l	1158	869	1448	Siemens Atellica IM	
µg/dl	41.7	31.3	52.1		
nmol/l	966	725	1208	Roche Cobas e402/e801	
µg/dl	34.8	26.1	43.5		
nmol/l	1092	819	1365	Tosoh AIA-CL Series	
µg/dl	39.3	29.5	49.1		
nmol/l	847	635	1059	Abbott Alinity i	
µg/dl	30.5	22.9	38.1		
DHEA-S	µmol/l	19.4	15.5	23.3	Abbott Architect
	µmol/l	16.7	13.4	20.0	Siemens Immulite 2000/2500
	µmol/l	15.7	12.6	18.8	Siemens Immulite 1000

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
DHEA-S	µmol/l	15.4	12.3	18.5	Beckman Dxl800
	µmol/l	25.7	20.6	30.8	Roche Elecsys
	µmol/l	16.8	13.4	20.2	Beckman Access
	µmol/l	15.3	12.2	18.4	Diasorin Liaison
	µmol/l	14.7	11.8	17.6	Siemens Centaur XP/XPT/Classic
	µmol/l	24.8	19.8	29.8	Roche Cobas 4000/E411
	µmol/l	24.3	19.4	29.2	Roche Cobas e601/602
	µmol/l	16.6	13.3	19.9	LC/MS
	µmol/l	14.8	11.8	17.8	Siemens Atellica IM
	µmol/l	23.3	18.6	28.0	Roche Cobas e402/e801
µmol/l	19.8	15.8	23.8	Abbott Alinity i	
Digoxin	nmol/l	3.98	3.18	4.78	Abbott Architect (CMIA)
	ng/ml	3.11	2.48	3.74	
	nmol/l	4.39	3.51	5.27	BioMerieux Vidas
	ng/ml	3.43	2.74	4.12	
	nmol/l	5.35	4.28	6.42	Siemens Centaur XP/XPT/Classic
	ng/ml	4.18	3.34	5.02	
	nmol/l	4.66	3.73	5.59	Siemens Dimension
	ng/ml	3.64	2.91	4.37	
	nmol/l	5.21	4.17	6.25	Siemens Immulite 2000/2500
	ng/ml	4.07	3.26	4.88	
	nmol/l	4.70	3.76	5.64	Beckman Dxl800
	ng/ml	3.67	2.94	4.40	
	nmol/l	4.43	3.54	5.32	Roche Integra
	ng/ml	3.46	2.76	4.16	
	nmol/l	4.68	3.74	5.62	Roche Cobas e601/602
	ng/ml	3.66	2.92	4.40	
	nmol/l	5.09	4.07	6.11	Beckman AU400/600/640/2700/5400
	ng/ml	3.98	3.18	4.78	
	nmol/l	4.90	3.92	5.88	Roche Cobas 4000/E411
	ng/ml	3.83	3.06	4.60	
	nmol/l	4.38	3.50	5.26	Abbott Architect (PETINA)
	ng/ml	3.42	2.73	4.11	
	nmol/l	4.67	3.74	5.60	Roche Cobas e402/e801
	ng/ml	3.65	2.92	4.38	
nmol/l	5.78	4.62	6.94	Siemens Atellica IM	
ng/ml	4.51	3.61	5.41		
nmol/l	4.53	3.62	5.44	Siemens Atellica CH	
ng/ml	3.54	2.83	4.25		
nmol/l	4.55	3.64	5.46	Abbott Alinity (CMIA)	
ng/ml	3.55	2.84	4.26		
nmol/l	4.55	3.64	5.46	Abbott Alinity (PETINA)	
ng/ml	3.55	2.84	4.26		
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	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	338	270	406	Abbott Architect
	ng/ml = µg/l	244	195	293	BioMerieux Vidas
	ng/ml = µg/l	239	191	287	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	289	231	347	Siemens Dimension
	ng/ml = µg/l	266	213	319	Siemens Immulite 2000/2500
	ng/ml = µg/l	228	182	274	Siemens Immulite 1000
	ng/ml = µg/l	214	171	257	Beckman Dxl800
	ng/ml = µg/l	315	252	378	Roche Elecsys/Cobas e411
	ng/ml = µg/l	301	241	361	Diasorin Liaison
	ng/ml = µg/l	310	248	372	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	221	177	265	Beckman Access
	ng/ml = µg/l	221	177	265	Tosoh Series
	ng/ml = µg/l	192	154	230	Vitros ECi
	ng/ml = µg/l	307	246	368	Roche Cobas 4000/c311
	ng/ml = µg/l	250	200	300	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	295	236	354	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	233	186	280	Siemens Centaur CP
	ng/ml = µg/l	326	261	391	Diasorin Liaison XL
ng/ml = µg/l	346	277	415	Abbott Alinity i	
ng/ml = µg/l	230	184	276	Siemens Atellica IM	
ng/ml = µg/l	309	247	371	Roche Cobas e402/e801	
Folate	nmol/l	17.9	13.6	22.2	Abbott Architect
	ng/ml	7.89	6.00	9.78	
	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	15.0	11.4	18.6	Siemens Immulite 2000
	ng/ml	6.62	5.03	8.21	
	nmol/l	21.6	16.4	26.8	Beckman Dxl 600 / 800 - A14208
	ng/ml	9.53	7.23	11.8	
	nmol/l	21.7	16.5	26.9	Beckman Access
	ng/ml	9.57	7.28	11.9	
	nmol/l	29.5	22.4	36.6	Tosoh Series
	ng/ml	13.0	9.88	16.1	
	nmol/l	14.0	10.6	17.4	Vitros ECi
	ng/ml	6.17	4.67	7.67	
	nmol/l	12.2	9.27	15.1	Siemens Dimension
	ng/ml	5.38	4.09	6.67	
	nmol/l	21.6	16.4	26.8	Beckman Dxl 600 / 800 - A98032
	ng/ml	9.53	7.23	11.8	
	nmol/l	44.0	33.4	54.6	Siemens Centaur CP (enhanced kit)
	ng/ml	19.4	14.7	24.1	
nmol/l	22.4	17.0	27.8	Roche Folate III - 04476433	
ng/ml	9.88	7.50	12.3		
nmol/l	22.9	17.4	28.4	Roche Elecsys Folate	
ng/ml	10.1	7.67	12.5		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Folate	nmol/l	22.9	17.4	28.4	Roche Folate III - 07559992	
	ng/ml	10.1	7.67	12.5		
	nmol/l	34.8	26.4	43.2	Siemens Atellica IM	
	ng/ml	15.3	11.6	19.0		
	nmol/l	19.0	14.4	23.6	Abbott Alinity i	
	ng/ml	8.38	6.35	10.4		
	nmol/l	23.0	17.5	28.5	Roche Folate 07027290 e801	
	ng/ml	10.1	7.72	12.5		
	Free T3	pmol/l	20.7	15.5	25.9	Abbott Architect, 2 point calibration
		ng/dl	1.35	1.01	1.69	
pg/ml		13.5	10.1	16.9		
pmol/l		21.1	15.8	26.4	BioMerieux Vidas	
ng/dl		1.37	1.03	1.71		
pg/ml		13.7	10.3	17.1		
pmol/l		20.8	15.6	26.0	Siemens Centaur XP/XPT/Classic	
ng/dl		1.35	1.01	1.69		
pg/ml		13.5	10.2	16.8		
pmol/l		13.4	10.1	16.8	Siemens Immulite 2000/2500	
ng/dl		0.871	0.657	1.09		
pg/ml		8.72	6.58	10.9		
pmol/l		13.4	10.1	16.8	Siemens Immulite 1000	
ng/dl		0.871	0.657	1.09		
pg/ml		8.72	6.58	10.9		
pmol/l		15.1	11.3	18.9	Beckman Dxl800	
ng/dl		0.982	0.735	1.23		
pg/ml		9.83	7.36	12.3		
pmol/l		26.3	19.7	32.9	Roche Elecsys	
ng/dl		1.71	1.28	2.14		
pg/ml		17.1	12.8	21.4		
pmol/l		28.0	21.0	35.0	Diasorin Liaison	
ng/dl		1.82	1.37	2.27		
pg/ml		18.2	13.7	22.7		
pmol/l		16.6	12.5	20.8	Beckman Access	
ng/dl		1.08	0.813	1.35		
pg/ml		10.8	8.14	13.5		
pmol/l		33.5	25.1	41.9	Tosoh Series	
ng/dl		2.18	1.63	2.73		
pg/ml		21.8	16.3	27.3		
pmol/l	35.2	26.4	44.0	Vitros ECi		
ng/dl	2.29	1.72	2.86			
pg/ml	22.9	17.2	28.6			
pmol/l	26.0	19.5	32.5	Roche Cobas 4000/E411		
ng/dl	1.69	1.27	2.11			
pg/ml	16.9	12.7	21.1			
pmol/l	26.2	19.7	32.8	Roche Cobas e601/602		
ng/dl	1.70	1.28	2.12			
pg/ml	17.1	12.8	21.4			

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	26.1	19.6	32.6	Fujirebio Lumipulse G Series
	ng/dl	1.70	1.27	2.13	
	pg/ml	17.0	12.8	21.2	
	pmol/l	20.7	15.5	25.9	Siemens Centaur CP
	ng/dl	1.35	1.01	1.69	
	pg/ml	13.5	10.1	16.9	
	pmol/l	24.4	18.3	30.5	Sysmex HISCL Series
	ng/dl	1.59	1.19	1.99	
	pg/ml	15.9	11.9	19.9	
	pmol/l	31.6	23.7	39.5	Diasorin Liaison XL
	ng/dl	2.05	1.54	2.56	
	pg/ml	20.6	15.4	25.8	
	pmol/l	22.6	17.0	28.3	Siemens Atellica IM
	ng/dl	1.47	1.11	1.83	
	pg/ml	14.7	11.1	18.3	
	pmol/l	21.5	16.1	26.9	Abbott Alinity, 2 point cal
	ng/dl	1.40	1.05	1.75	
	pg/ml	14.0	10.5	17.5	
	pmol/l	21.1	15.8	26.4	Abbott Architect, 6 point calibration
	ng/dl	1.37	1.03	1.71	
	pg/ml	13.7	10.3	17.1	
	pmol/l	26.1	19.6	32.6	Roche Cobas e402/e801
	ng/dl	1.70	1.27	2.13	
	pg/ml	17.0	12.8	21.2	
pmol/l	25.4	19.1	31.8	Tosoh AIA-CL Series	
ng/dl	1.65	1.24	2.06		
pg/ml	16.5	12.4	20.6		
pmol/l	21.6	16.2	27.0	Abbott Alinity, 6 point cal	
ng/dl	1.40	1.05	1.75		
pg/ml	14.1	10.5	17.7		
Free T4	pmol/l	45.0	33.8	56.3	Abbott Architect
	ng/dl	3.51	2.64	4.38	
	pg/ml	35.1	26.4	43.8	
	pmol/l	46.2	34.7	57.8	Siemens Centaur XP/XPT/Classic
	ng/dl	3.60	2.71	4.49	
	pg/ml	36.0	27.1	44.9	
	pmol/l	54.4	40.8	68.0	CIS RIA Coated tube
	ng/dl	4.24	3.18	5.30	
	pg/ml	42.4	31.8	53.0	
	pmol/l	69.5	52.1	86.9	Siemens Immulite 2000/2500
	ng/dl	5.42	4.06	6.78	
	pg/ml	54.2	40.6	67.8	
	pmol/l	72.5	54.4	90.6	Siemens Immulite 1000
	ng/dl	5.66	4.24	7.08	
	pg/ml	56.6	42.4	70.8	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	53.9	40.4	67.4	Beckman Dxl800
	ng/dl	4.20	3.15	5.25	
	pg/ml	42.0	31.5	52.5	
	pmol/l	63.0	47.3	78.8	Roche Elecsys
	ng/dl	4.91	3.69	6.13	
	pg/ml	49.1	36.9	61.3	
	pmol/l	80.9	60.7	101	Diasorin Liaison
	ng/dl	6.31	4.73	7.89	
	pg/ml	63.1	47.3	78.9	
	pmol/l	49.7	37.3	62.1	Beckman Access
	ng/dl	3.88	2.91	4.85	
	pg/ml	38.8	29.1	48.5	
	pmol/l	67.2	50.4	84.0	Tosoh Series
	ng/dl	5.24	3.93	6.55	
	pg/ml	52.4	39.3	65.5	
	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	
	pmol/l	65.6	49.2	82.0	Roche Cobas e601/602
	ng/dl	5.12	3.84	6.40	
	pg/ml	51.2	38.4	64.0	
	pmol/l	48.3	36.2	60.4	Immunotech IRMA
	ng/dl	3.77	2.82	4.72	
	pg/ml	37.7	28.2	47.2	
	pmol/l	63.2	47.4	79.0	Roche Cobas 4000/E411
	ng/dl	4.93	3.70	6.16	
	pg/ml	49.3	37.0	61.6	
	pmol/l	65.9	49.4	82.4	Biomérieux Vidas FT4N Kit
	ng/dl	5.14	3.85	6.43	
	pg/ml	51.4	38.5	64.3	
pmol/l	61.3	46.0	76.6	Fujirebio Lumipulse G Series	
ng/dl	4.78	3.59	5.97		
pg/ml	47.8	35.9	59.7		
pmol/l	49.2	36.9	61.5	Siemens Centaur CP	
ng/dl	3.84	2.88	4.80		
pg/ml	38.4	28.8	48.0		
pmol/l	75.4	56.6	94.3	Sysmex HISCL Series	
ng/dl	5.88	4.41	7.35		
pg/ml	58.8	44.1	73.5		
pmol/l	99.0	74.3	124	Diasorin Liaison XL	
ng/dl	7.72	5.80	9.64		
pg/ml	77.2	58.0	96.4		
pmol/l	49.4	37.1	61.8	Siemens Atellica IM	
ng/dl	3.85	2.89	4.81		
pg/ml	38.5	28.9	48.1		
pmol/l	41.4	31.1	51.8	Abbott Alinity i	
ng/dl	3.23	2.43	4.03		
pg/ml	32.3	24.3	40.3		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	65.7	49.3	82.1	Roche Cobas e402/e801
	ng/dl	5.12	3.85	6.39	
	pg/ml	51.2	38.5	63.9	
	pmol/l	60.1	45.1	75.1	Tosoh AIA-CL Series
	ng/dl	4.69	3.52	5.86	
	pg/ml	46.9	35.2	58.6	
FSH	mU/ml	54.1	43.3	64.9	Abbott Architect
	mU/ml	70.5	56.4	84.6	BioMerieux Vidas
	mU/ml	81.0	64.8	97.2	Siemens Centaur XP/XPT/Classic
	mU/ml	62.6	50.1	75.1	Siemens Immulite 2000/2500
	mU/ml	64.4	51.5	77.3	Siemens Immulite 1000
	mU/ml	65.5	52.4	78.6	Beckman Dxl800
	mU/ml	59.2	47.4	71.0	Roche/BM Elecsys
	mU/ml	77.9	62.3	93.5	Diasorin Liaison
	mU/ml	64.2	51.4	77.0	Beckman Access
	mU/ml	59.6	47.7	71.5	Tosoh Series
	mU/ml	45.5	36.4	54.6	Vitros ECI
	mU/ml	61.0	48.8	73.2	Roche Cobas 4000/E411
	mU/ml	55.3	44.2	66.4	Roche Cobas e601/602
	mU/ml	52.7	42.2	63.2	Fujirebio Lumipulse G Series
	mU/ml	71.6	57.3	85.9	Siemens Centaur CP
	mU/ml	89.6	71.7	108	Diasorin Liaison XL
	mU/ml	80.3	64.2	96.4	Siemens Atellica IM
	mU/ml	54.2	43.4	65.0	Abbott Alinity i
mU/ml	56.3	45.0	67.6	Roche Cobas e402/e801	
Gentamicin	µmol/l	10.6	8.48	12.7	Roche Integra
	µg/ml	5.07	4.05	6.09	
	µmol/l	13.7	11.0	16.4	Siemens Centaur XP/XPT/Classic
	µg/ml	6.55	5.26	7.84	
	µmol/l	11.5	9.20	13.8	Abbott Architect (CMIA)
	µg/ml	5.50	4.40	6.60	
	µmol/l	12.4	9.92	14.9	Siemens Dimension Vista
	µg/ml	5.93	4.74	7.12	
	µmol/l	8.35	6.68	10.0	Roche Cobas 6000/8000 Online KIMS
	µg/ml	3.99	3.19	4.79	
	µmol/l	10.9	8.72	13.1	Roche Cobas 6000/8000 CEDIA
	µg/ml	5.21	4.17	6.25	
	µmol/l	12.1	9.68	14.5	Abbott Architect (PETINA)
	µg/ml	5.78	4.63	6.93	
	µmol/l	11.7	9.36	14.0	Siemens Atellica CH
	µg/ml	5.59	4.47	6.71	
	µmol/l	12.4	9.92	14.9	Abbott Alinity (CMIA)
	µg/ml	5.93	4.74	7.12	
µmol/l	12.2	9.76	14.6	Abbott Alinity (PETINA)	
µg/ml	5.83	4.67	6.99		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

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	49.5	39.6	59.4	Siemens Immulite 2000/2500
	ng/ml	16.5	13.2	19.8	
	µU/ml	51.4	41.1	61.7	Siemens Immulite 1000
	ng/ml	17.1	13.7	20.5	
	µU/ml	39.0	31.2	46.8	Beckman Dxl800
	ng/ml	13.0	10.4	15.6	
	µU/ml	42.4	33.9	50.9	Beckman Access
	ng/ml	14.1	11.3	16.9	
	µU/ml	50.1	40.1	60.1	Tosoh Series
	ng/ml	16.7	13.4	20.0	
	µU/ml	44.1	35.3	52.9	Diasorin Liaison
	ng/ml	14.7	11.8	17.6	
	µU/ml	43.4	34.7	52.1	Roche Cobas 4000/E411
	ng/ml	14.5	11.6	17.4	
	µU/ml	44.6	35.7	53.5	Roche Cobas e601/602
	ng/ml	14.9	11.9	17.9	
	µU/ml	42.1	33.7	50.5	Diasorin Liaison XL
	ng/ml	14.0	11.2	16.8	
µU/ml	45.3	36.2	54.4	Roche Cobas e402/e801	
ng/ml	15.1	12.1	18.1		
µU/ml	45.0	36.0	54.0	Tosoh AIA-CL Series	
ng/ml	15.0	12.0	18.0		
Immunoglobulin E	KIU/l = IU/ml	585	468	702	Abbott Architect
	KIU/l = IU/ml	599	479	719	BioMerieux Vidas
	KIU/l = IU/ml	684	547	821	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	634	507	761	Siemens Immulite 2000/2500
	KIU/l = IU/ml	675	540	810	Siemens Immulite 1000
	KIU/l = IU/ml	674	539	809	Roche Elecsys
	KIU/l = IU/ml	576	461	691	Pharmacia Unicap
	KIU/l = IU/ml	574	459	689	Tosoh Series
	KIU/l = IU/ml	663	530	796	Roche Cobas 4000/E411
	KIU/l = IU/ml	663	530	796	Roche Cobas e601/602
	KIU/l = IU/ml	685	548	822	Siemens Centaur CP
	KIU/l = IU/ml	685	548	822	Siemens Atellica IM
	KIU/l = IU/ml	648	518	778	Roche Cobas e402/e801
	KIU/l = IU/ml	576	461	691	Abbott Alinity
Insulin	mU/l	20.3	15.2	25.4	Siemens Centaur XP/XPT/Classic
	µU/ml	20.3	15.2	25.4	
	mU/l	8.25	6.19	10.3	Siemens Immulite 1000
	µU/ml	8.25	6.19	10.3	
	mU/l	8.84	6.63	11.1	Siemens Immulite 2000
	µU/ml	8.84	6.63	11.1	
	mU/l	28.6	21.5	35.8	Roche Elecsys
	µU/ml	28.6	21.5	35.7	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	20.8	15.6	26.0	Beckman Access
	µU/ml	20.8	15.6	26.0	
	mU/l	19.7	14.8	24.6	Abbott Architect
	µU/ml	19.7	14.8	24.6	
	mU/l	36.6	27.5	45.8	Tosoh Series
	µU/ml	36.6	27.5	45.7	
	mU/l	28.3	21.2	35.4	Roche Cobas 4000/E411
	µU/ml	28.3	21.2	35.4	
	mU/l	19.9	14.9	24.9	Beckman Dxl 600/800
	µU/ml	19.9	14.9	24.9	
	mU/l	29.7	22.3	37.1	Diasorin Liaison
	µU/ml	29.7	22.3	37.1	
	mU/l	27.9	20.9	34.9	Roche Cobas 6000/8000
	µU/ml	27.9	20.9	34.9	
	mU/l	25.5	19.1	31.9	Fujirebio Lumipulse G Series
	µU/ml	25.5	19.1	31.9	
	mU/l	21.0	15.8	26.3	Siemens Centaur CP
	µU/ml	21.0	15.8	26.2	
	mU/l	31.7	23.8	39.6	Diasorin Liaison XL
	µU/ml	31.7	23.8	39.6	
mU/l	21.4	16.1	26.8	Siemens Atellica IM	
µU/ml	21.4	16.1	26.7		
mU/l	17.9	13.4	22.4	Abbott Alinity i	
µU/ml	17.9	13.4	22.4		
mU/l	33.2	24.9	41.5	Tosoh AIA-CL Series	
µU/ml	33.2	24.9	41.5		
Luteinising Hormone (LH)	mU/ml	42.1	33.7	50.5	Abbott Architect
	mU/ml	51.5	41.2	61.8	BioMerieux Vidas
	mU/ml	49.4	39.5	59.3	Siemens Centaur XP/XPT/Classic
	mU/ml	70.6	56.5	84.7	Siemens Immulite 2000
	mU/ml	80.1	64.1	96.1	Siemens Immulite 1000
	mU/ml	41.9	33.5	50.3	Beckman Dxl800
	mU/ml	54.8	43.8	65.8	Roche Elecsys
	mU/ml	63.3	50.6	76.0	Diasorin Liaison
	mU/ml	42.9	34.3	51.5	Beckman Access
	mU/ml	49.1	39.3	58.9	Tosoh Series
	mU/ml	59.5	47.6	71.4	Vitros ECi
	mU/ml	56.3	45.0	67.6	Roche Cobas 4000/E411
	mU/ml	55.6	44.5	66.7	Roche Cobas e601/602
	mU/ml	49.3	39.4	59.2	Fujirebio Lumipulse G Series
	mU/ml	48.0	38.4	57.6	Siemens Centaur CP
	mU/ml	65.3	52.2	78.4	Diasorin Liaison XL
	mU/ml	50.0	40.0	60.0	Siemens Atellica IM
	mU/ml	41.4	33.1	49.7	Abbott Alinity i
	mU/ml	55.4	44.3	66.5	Roche Cobas e402/e801

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1063	850	1276	Abbott Architect
	pg/ml	289	231	347	
	pmol/l	2828	2262	3394	BioMerieux Vidas
	pg/ml	769	615	923	
	pmol/l	2055	1644	2466	Siemens Centaur XP/XPT/Classic
	pg/ml	559	447	671	
	pmol/l	2045	1636	2454	Siemens Immulite 2000/2500
	pg/ml	556	445	667	
	pmol/l	1917	1534	2300	Siemens Immulite 1000
	pg/ml	521	417	625	
	pmol/l	1146	917	1375	Beckman Dxl800
	pg/ml	312	249	375	
	pmol/l	1194	955	1433	Roche Elecsys (Estradiol II)
	pg/ml	325	260	390	
	pmol/l	1244	995	1493	Beckman Access
	pg/ml	338	271	405	
	pmol/l	1518	1214	1822	Tosoh (E2)
	pg/ml	413	330	496	
	pmol/l	2408	1926	2890	Vitros ECi
	pg/ml	655	524	786	
	pmol/l	927	742	1112	Diasorin Liaison
	pg/ml	252	202	302	
	pmol/l	1228	982	1474	Roche Cobas e601/602 (Estradiol II)
	pg/ml	334	267	401	
	pmol/l	1237	990	1484	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	336	269	403	
	pmol/l	2087	1670	2504	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	568	454	682	
	pmol/l	2107	1686	2528	Siemens Centaur XP/XPT/Classic E26 III
	pg/ml	573	459	687	
	pmol/l	1480	1184	1776	Tosoh (iE2-hsE2)
	pg/ml	403	322	484	
pmol/l	1775	1420	2130	Siemens Centaur CP	
pg/ml	483	386	580		
pmol/l	2163	1730	2596	Siemens Centaur CP Enhanced (eE2)	
pg/ml	588	471	705		
pmol/l	1241	993	1489	Roche Cobas e601/602 (Estradiol III)	
pg/ml	338	270	406		
pmol/l	1229	983	1475	Roche Elecsys (Estradiol III)	
pg/ml	334	267	401		
pmol/l	1246	997	1495	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	339	271	407		
pmol/l	874	699	1049	Diasorin Liaison XL	
pg/ml	238	190	286		
pmol/l	1243	994	1492	Beckman Access / Access 2 Sensitive B84493	
pg/ml	338	270	406		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1117	894	1340	Beckman DxI600/800 Sensitive B84493
	pg/ml	304	243	365	
	pmol/l	2171	1737	2605	Siemens Atellica IM
	pg/ml	591	472	710	
	pmol/l	1037	830	1244	Abbott Alinity i
	pg/ml	282	226	338	
	pmol/l	1234	987	1481	Roche Cobas e801 (Estradiol III)
	pg/ml	336	268	404	
	pmol/l	1398	1118	1678	Tosoh AIA-CL Series
	pg/ml	380	304	456	
Paracetamol	mmol/l	0.486	0.389	0.583	Abbott Architect
	mg/l	73.5	58.9	88.1	
	mmol/l	0.484	0.387	0.581	Roche Cobas c501/502/503/701/702
	mg/l	73.2	58.6	87.8	
	mmol/l	0.504	0.403	0.605	Beckman AU Instruments
	mg/l	76.3	61.0	91.6	
	mmol/l	0.511	0.409	0.613	Abbott Alinity
	mg/l	77.3	61.9	92.7	
	mmol/l	0.488	0.390	0.586	Siemens Atellica CH
	mg/l	73.8	59.0	88.6	
Phenobarbital	µmol/l	124	99.0	149	Abbott Architect (CMIA)
	µg/ml	28.8	23.0	34.6	
	µmol/l	114	91.2	137	Roche Cobas e601/602/801
	µg/ml	26.4	21.2	31.6	
	µmol/l	123	98.4	148	Siemens Immulite 2000/2500
	µg/ml	28.5	22.8	34.2	
	µmol/l	121	96.8	145	Beckman AU400/600/640/2700/5400
	µg/ml	28.1	22.5	33.7	
	µmol/l	173	138	208	Siemens Centaur XP/XPT/Classic
	µg/ml	40.1	32.0	48.2	
	µmol/l	117	93.6	140	Roche Integra
	µg/ml	27.1	21.7	32.5	
	µmol/l	118	94.4	142	Roche Cobas C303/501/502/503/701
	µg/ml	27.4	21.9	32.9	
	µmol/l	114	91.2	137	Abbott Architect (PETINA)
	µg/ml	26.4	21.2	31.6	
	µmol/l	124	99.0	149	Siemens Atellica CH
	µg/ml	28.8	23.0	34.6	
µmol/l	108	86.4	130	Abbott Alinity (PETINA)	
µg/ml	25.1	20.0	30.2		
Phenytoin	µmol/l	121	96.8	145	Gravimetric
	µg/ml	28.1	22.5	33.6	
	µmol/l	94.9	75.9	114	Abbott Architect
	µg/ml	24.0	19.2	28.8	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	119	95.2	143	Siemens Centaur XP/XPT/Classic
	µg/ml	30.0	24.0	36.0	
	µmol/l	105	84.0	126	Siemens Dimension
	µg/ml	26.5	21.2	31.8	
	µmol/l	97.4	77.9	117	Siemens Immulite 2000/2500
	µg/ml	24.6	19.7	29.5	
	µmol/l	91.7	73.4	110	Roche Integra
	µg/ml	23.2	18.5	27.9	
	µmol/l	98.1	78.5	118	Vitros
	µg/ml	24.8	19.8	29.8	
	µmol/l	92.5	74.0	111	Roche Cobas 6000/8000
	µg/ml	23.4	18.7	28.1	
	µmol/l	94.0	75.2	113	Beckman DxC
	µg/ml	23.7	19.0	28.4	
	µmol/l	95.0	76.0	114	Beckman AU Instruments
	µg/ml	24.0	19.2	28.8	
	µmol/l	90.7	72.6	109	EMIT
	µg/ml	22.9	18.3	27.5	
Primidone	µmol/l	101	80.8	121	Siemens Atellica CH
	µg/ml	25.5	20.4	30.6	
Progesterone	µmol/l	102	81.6	122	Abbott Alinity
	µg/ml	25.8	20.6	31.0	
Primidone	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	87.6	70.1	105	Abbott Architect
	ng/ml	27.4	21.9	32.9	
	nmol/l	134	107	161	BioMerieux Vidas
	ng/ml	41.9	33.5	50.3	
	nmol/l	67.8	54.2	81.4	Siemens Centaur XP/XPT/Classic
	ng/ml	21.2	17.0	25.4	
	nmol/l	71.1	56.9	85.3	Siemens Immulite 2000/2500
	ng/ml	22.3	17.8	26.8	
	nmol/l	80.5	64.4	96.6	Siemens Immulite 1000
	ng/ml	25.2	20.2	30.2	
	nmol/l	86.2	69.0	103	Beckman Dxl Prog Cal 33555
	ng/ml	27.0	21.6	32.4	
	nmol/l	89.2	71.4	107	Roche Elecsys (Prog. II)
	ng/ml	27.9	22.3	33.5	
	nmol/l	87.0	69.6	104	Beckman Access Prog Cal 33555
	ng/ml	27.2	21.8	32.6	
	nmol/l	101	80.8	121	Tosoh Series
	ng/ml	31.6	25.3	37.9	
nmol/l	98.9	79.1	119	Vitros ECi	
ng/ml	31.0	24.8	37.2		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	91.5	73.2	110	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	28.6	22.9	34.3	
	nmol/l	92.4	73.9	111	Roche Cobas e601/602 (Prog. II)
	ng/ml	28.9	23.1	34.7	
	nmol/l	80.4	64.3	96.5	Beckman Dxl Prog DE Cal A80773
	ng/ml	25.2	20.1	30.3	
	nmol/l	85.2	68.2	102	Beckman Access Prog DE Cal A80773
	ng/ml	26.7	21.3	32.1	
	nmol/l	64.6	51.7	77.5	Siemens Centaur CP
	ng/ml	20.2	16.2	24.2	
	nmol/l	91.6	73.3	110	Roche Cobas e601/602 (Prog. III)
	ng/ml	28.7	22.9	34.5	
	nmol/l	92.4	73.9	111	Roche Elecsys (Prog. III)
	ng/ml	28.9	23.1	34.7	
	nmol/l	91.4	73.1	110	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	28.6	22.9	34.3	
	nmol/l	81.3	65.0	97.6	Diasorin Liaison XL
	ng/ml	25.4	20.3	30.5	
nmol/l	82.4	65.9	98.9	Abbott Alinity i	
ng/ml	25.8	20.6	31.0		
nmol/l	92.7	74.2	111	Roche Cobas e801 (Prog. III)	
ng/ml	29.0	23.2	34.8		
nmol/l	99.0	79.2	119	Tosoh AIA-CL Series	
ng/ml	31.0	24.8	37.2		
Prolactin	µU/ml	1193	954	1432	Abbott Architect
	µU/ml	1363	1090	1636	BioMerieux Vidas
	µU/ml	976	781	1171	Siemens Centaur XP/XPT/Classic
	µU/ml	1068	854	1282	Siemens Immulite 2000/2500
	µU/ml	1180	944	1416	Siemens Immulite 1000
	µU/ml	943	754	1132	Beckman Dxl800
	µU/ml	1088	870	1306	Roche Elecsys
	µU/ml	1072	858	1286	Diasorin Liaison
	µU/ml	978	782	1174	Beckman Access
	µU/ml	1124	899	1349	Tosoh Series
	µU/ml	983	786	1180	Vitros Eci
	µU/ml	1059	847	1271	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1147	918	1376	Immunotech IRMA
	µU/ml	1107	886	1328	Roche Cobas 4000/E411
	µU/ml	1062	850	1274	Roche Cobas e601/602
	µU/ml	944	755	1133	Siemens Centaur CP
	µU/ml	1178	942	1414	Diasorin Liaison XL
	µU/ml	983	786	1180	Siemens Atellica IM
µU/ml	1213	970	1456	Abbott Alinity i	
µU/ml	1055	844	1266	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	26.4	19.8	33.0	Abbott Architect
	ng/ml = µg/l	26.7	20.0	33.4	BioMerieux Vidas

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	21.0	15.8	26.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	20.2	15.2	25.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	22.2	16.7	27.8	Siemens Immulite 1000
	ng/ml = µg/l	22.4	16.8	28.0	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	16.6	12.5	20.8	Roche Elecsys
	ng/ml = µg/l	19.7	14.8	24.6	Diasorin Liaison
	ng/ml = µg/l	21.5	16.1	26.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	16.2	12.2	20.3	Tosoh Series
	ng/ml = µg/l	17.0	12.8	21.3	Roche Cobas 4000/E411
	ng/ml = µg/l	16.9	12.7	21.1	Roche Cobas e601/602
	ng/ml = µg/l	18.0	13.5	22.5	Siemens Dimension Vista
	ng/ml = µg/l	20.9	15.7	26.1	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	15.5	11.6	19.4	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	18.2	13.7	22.8	Fujirebio Lumipulse G Series
	ng/ml = µg/l	17.6	13.2	22.0	Diasorin Liaison XL
	ng/ml = µg/l	21.3	16.0	26.6	Siemens Atellica IM
	ng/ml = µg/l	24.3	18.2	30.4	Abbott Alinity i
ng/ml = µg/l	16.4	12.3	20.5	Roche Cobas e402/e801	
PSA Total	ng/ml = µg/l	17.7	13.3	22.1	Abbott Architect
	ng/ml = µg/l	25.1	18.8	31.4	BioMerieux Vidas
	ng/ml = µg/l	24.9	18.7	31.1	bioMerieux VIDAS TPSA
	ng/ml = µg/l	22.2	16.7	27.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	23.6	17.7	29.5	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	23.5	17.6	29.4	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	22.3	16.7	27.9	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	22.4	16.8	28.0	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	17.2	12.9	21.5	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	22.6	17.0	28.3	Roche Elecsys
	ng/ml = µg/l	21.8	16.4	27.3	Diasorin Liaison
	ng/ml = µg/l	23.1	17.3	28.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	22.8	17.1	28.5	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	17.6	13.2	22.0	Tosoh Series
	ng/ml = µg/l	22.9	17.2	28.6	Vitros ECi
	ng/ml = µg/l	24.5	18.4	30.6	CIS RIA Coated tube
	ng/ml = µg/l	23.0	17.3	28.8	Roche Cobas 4000/E411
	ng/ml = µg/l	22.5	16.9	28.1	Roche Cobas e601/602
	ng/ml = µg/l	17.0	12.8	21.3	Fujirebio Lumipulse G Series
	ng/ml = µg/l	22.6	17.0	28.3	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	20.8	15.6	26.0	Siemens Centaur CP
	ng/ml = µg/l	21.6	16.2	27.0	Diasorin Liaison XL
	ng/ml = µg/l	23.7	17.8	29.6	Siemens Atellica IM
ng/ml = µg/l	17.5	13.1	21.9	Abbott Alinity i	
ng/ml = µg/l	22.1	16.6	27.6	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	2.83	2.26	3.40	Abbott Architect
	mg/dl	39.1	31.2	47.0	
	mmol/l	2.82	2.26	3.38	Roche Cobas c501/502/503
	mg/dl	38.9	31.2	46.6	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Salicylic Acid	mmol/l	2.90	2.32	3.48	EMIT
	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	
SHBG	nmol/l	39.2	31.4	47.0	Siemens Immulite 2000/2500
	nmol/l	41.3	33.0	49.6	Abbott Architect
	nmol/l	42.2	33.8	50.6	Beckman Access
	nmol/l	40.9	32.7	49.1	Beckman DxI800
	nmol/l	40.7	32.6	48.8	Siemens Atellica IM
	nmol/l	39.4	31.5	47.3	Roche analysers - 413417/15
	nmol/l	37.5	30.0	45.0	Roche Cobas e801 - 413429
	nmol/l	41.2	33.0	49.4	Abbott Alinity i
T Uptake	%U	38.9	31.9	45.9	Siemens Immulite 2000
Testosterone	nmol/l	29.3	23.4	35.2	Abbott Architect
	ng/ml	8.44	6.74	10.1	
	ng/dl	844	674	1014	
	nmol/l	26.8	21.4	32.2	BioMerieux Vidas
	ng/ml	7.72	6.16	9.28	
	ng/dl	772	616	928	
	nmol/l	24.8	19.8	29.8	Siemens Centaur XP/XPT/Classic
	ng/ml	7.14	5.70	8.58	
	ng/dl	714	570	858	
	nmol/l	28.9	23.1	34.7	CIS RIA Coated tube
	ng/ml	8.32	6.65	9.99	
	ng/dl	832	665	999	
	nmol/l	32.1	25.7	38.5	Siemens Immulite 2000/2500
	ng/ml	9.24	7.40	11.1	
	ng/dl	924	740	1108	
	nmol/l	23.4	18.7	28.1	Beckman DxI800
	ng/ml	6.74	5.39	8.09	
	ng/dl	674	539	809	
	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	37.8	30.2	45.4	Tosoh Series	
ng/ml	10.9	8.70	13.1		
ng/dl	1089	870	1308		
nmol/l	38.7	31.0	46.4	Vitros ECi	
ng/ml	11.1	8.93	13.3		
ng/dl	1115	893	1337		
nmol/l	28.4	22.7	34.1	Roche Cobas e601/602 Test II	
ng/ml	8.18	6.54	9.82		
ng/dl	818	654	982		
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		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	28.3	22.6	34.0	Roche Cobas 4000/e411 Test II
	ng/ml	8.15	6.51	9.79	
	ng/dl	815	651	979	
	nmol/l	28.4	22.7	34.1	Abbott Architect 2nd Generation
	ng/ml	8.18	6.54	9.82	
	ng/dl	818	654	982	
	nmol/l	25.8	20.6	31.0	Siemens Centaur CP
	ng/ml	7.43	5.93	8.93	
	ng/dl	743	593	893	
	nmol/l	26.4	21.1	31.7	BioMerieux Vidas Testosterone II
	ng/ml	7.60	6.08	9.12	
	ng/dl	760	608	912	
	nmol/l	24.8	19.8	29.8	Siemens Centaur TST II
	ng/ml	7.14	5.70	8.58	
	ng/dl	714	570	858	
	nmol/l	25.3	20.2	30.4	Siemens Atellica IM
	ng/ml	7.29	5.82	8.76	
	ng/dl	729	582	876	
nmol/l	28.3	22.6	34.0	Roche Cobas e801 Test II	
ng/ml	8.15	6.51	9.79		
ng/dl	815	651	979		
nmol/l	34.0	27.2	40.8	Tosoh AIA-CL Series	
ng/ml	9.79	7.83	11.8		
ng/dl	979	783	1175		
nmol/l	29.3	23.4	35.2	Abbott Alinity i	
ng/ml	8.44	6.74	10.1		
ng/dl	844	674	1014		
Theophylline	µmol/l	152	122	182	Siemens Centaur XP/XPT/Classic
	µg/ml	27.4	22.0	32.8	
	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	146	117	175	Abbott Architect (CMIA)
	µg/ml	26.3	21.1	31.5	
	µmol/l	162	130	194	Roche Cobas 6000/8000
	µg/ml	29.2	23.4	35.0	
	µmol/l	167	134	200	Beckman DxC
	µg/ml	30.1	24.1	36.1	
	µmol/l	142	114	170	Beckman AU400/600/640/2700/5400
	µg/ml	25.6	20.5	30.7	
	µmol/l	159	127	191	Abbott Alinity Enzyme-Immu
	µg/ml	28.7	22.9	34.5	
	µmol/l	166	133	199	Gravimetric
	µg/ml	29.9	24.0	35.9	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroglobulin	ng/ml	37.3	28.0	46.6	Siemens Immulite 1000
	ng/ml	37.9	28.4	47.4	Siemens Immulite 2000
	ng/ml	72.3	54.2	90.4	Roche Elecsys
	ng/ml	58.4	43.8	73.0	Beckman Dxl800
	ng/ml	70.3	52.7	87.9	Roche Cobas 4000/E411
	ng/ml	68.5	51.4	85.6	Roche Cobas e601/602
	ng/ml	60.5	45.4	75.6	Beckman Access
	ng/ml	80.1	60.1	100	Abbott Architect 2000i
	ng/ml	67.2	50.4	84.0	Tosoh Series
	ng/ml	68.8	51.6	86.0	Roche Cobas e601/602 Tg II
	ng/ml	69.0	51.8	86.3	Roche Elecsys TGII
	ng/ml	69.4	52.1	86.8	Roche Cobas 4000/E411 TGII
	ng/ml	59.4	44.6	74.3	Diasorin Liaison XL
	ng/ml	66.1	49.6	82.6	Roche Cobas e801 Tg II
	ng/ml	60.7	45.5	75.9	DiaSorin Liaison XL TG II Gen
ng/ml	78.0	58.5	97.5	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	18.4	14.7	22.1	Abbott Architect
	µU/ml = mIU/l	19.2	15.4	23.0	bioMerieux VIDAS TSH
	µU/ml = mIU/l	16.9	13.5	20.3	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	23.5	18.8	28.2	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	25.1	20.1	30.1	CIS IRMA
	µU/ml = mIU/l	23.6	18.9	28.3	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	18.8	15.0	22.6	Siemens Dimension
	µU/ml = mIU/l	21.6	17.3	25.9	Siemens Immulite 2000/2500
	µU/ml = mIU/l	21.4	17.1	25.7	Siemens Immulite 1000
	µU/ml = mIU/l	20.3	16.2	24.4	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	20.6	16.5	24.7	Beckman Dxl800
	µU/ml = mIU/l	22.1	17.7	26.5	Roche Elecsys
	µU/ml = mIU/l	30.1	24.1	36.1	Diasorin Liaison
	µU/ml = mIU/l	20.0	16.0	24.0	Beckman Access Fast TSH
	µU/ml = mIU/l	20.7	16.6	24.8	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	24.1	19.3	28.9	Tosoh Series
	µU/ml = mIU/l	28.2	22.6	33.8	Vitros ECI
	µU/ml = mIU/l	22.0	17.6	26.4	Roche Cobas 4000/E411
	µU/ml = mIU/l	22.0	17.6	26.4	Roche Cobas e601/602
	µU/ml = mIU/l	20.8	16.6	25.0	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	20.0	16.0	24.0	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	23.9	19.1	28.7	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	22.7	18.2	27.2	Siemens Centaur CP
	µU/ml = mIU/l	22.2	17.8	26.6	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	20.3	16.2	24.4	Beckman Dxl 600/800 Access (3rd IS)
µU/ml = mIU/l	32.8	26.2	39.4	Diasorin Liaison XL	
µU/ml = mIU/l	23.6	18.9	28.3	Siemens Atellica IM	
µU/ml = mIU/l	18.2	14.6	21.8	Abbott Alinity i	
µU/ml = mIU/l	20.8	16.6	25.0	Roche Cobas e402/e801	
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	260	208	312	Abbott Architect
	IU/ml	0.260	0.208	0.312	
	mU/ml=IU/l	471	377	565	BioMerieux Vidas
	IU/ml	0.471	0.377	0.565	
	mU/ml=IU/l	227	182	272	Siemens Centaur XP/XPT/Classic
	IU/ml	0.227	0.182	0.272	
	mU/ml=IU/l	456	365	547	Siemens Dimension
	IU/ml	0.456	0.365	0.547	
	mU/ml=IU/l	523	418	628	Siemens Immulite 2000
	IU/ml	0.523	0.418	0.628	
	mU/ml=IU/l	547	438	656	Siemens Immulite 1000
	IU/ml	0.547	0.438	0.656	
	mU/ml=IU/l	268	214	322	Beckman DxI800
	IU/ml	0.268	0.214	0.322	
	mU/ml=IU/l	243	194	292	Diasorin Liaison
	IU/ml	0.243	0.194	0.292	
	mU/ml=IU/l	305	244	366	Roche Cobas Core EIA
	IU/ml	0.305	0.244	0.366	
	mU/ml=IU/l	260	208	312	Beckman Access
	IU/ml	0.260	0.208	0.312	
	mU/ml=IU/l	471	377	565	Tosoh Series
	IU/ml	0.471	0.377	0.565	
	mU/ml=IU/l	461	369	553	Vitros ECi
	IU/ml	0.461	0.369	0.553	
	mU/ml=IU/l	242	194	290	Roche hCG STAT (Intact)
	IU/ml	0.242	0.194	0.290	
	mU/ml=IU/l	310	248	372	Roche hCG+Beta
	IU/ml	0.310	0.248	0.372	
	mU/ml=IU/l	258	206	310	Beckman Access Total BhCG (5th IS)
	IU/ml	0.258	0.206	0.310	
mU/ml=IU/l	270	216	324	Beckman DxI Total BhCG (5th IS)	
IU/ml	0.270	0.216	0.324		
mU/ml=IU/l	223	178	268	Siemens Centaur CP	
IU/ml	0.223	0.178	0.268		
mU/ml=IU/l	260	208	312	Diasorin Liaison XL	
IU/ml	0.260	0.208	0.312		
mU/ml=IU/l	243	194	292	Siemens Atellica IM	
IU/ml	0.243	0.194	0.292		
mU/ml=IU/l	260	208	312	Abbott Alinity i	
IU/ml	0.260	0.208	0.312		
mU/ml=IU/l	295	236	354	Roche hCG+Beta e801	
IU/ml	0.295	0.236	0.354		
mU/ml=IU/l	559	447	671	Tosoh AIA-CL Series	
IU/ml	0.559	0.447	0.671		
Total T3	nmol/l	4.69	3.52	5.86	Abbott Architect
	ng/ml	3.05	2.29	3.81	
	ng/dl	305	229	381	

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	5.22	3.92	6.53	BioMerieux Vidas
	ng/ml	3.40	2.55	4.25	
	ng/dl	340	255	425	
	nmol/l	6.01	4.51	7.51	Siemens Centaur XP/XPT/Classic
	ng/ml	3.91	2.94	4.88	
	ng/dl	391	294	488	
	nmol/l	5.46	4.10	6.83	Siemens Immulite 2000/2500
	ng/ml	3.55	2.67	4.43	
	ng/dl	355	267	443	
	nmol/l	5.31	3.98	6.64	Siemens Immulite 1000
	ng/ml	3.46	2.59	4.33	
	ng/dl	346	259	433	
	nmol/l	5.30	3.98	6.63	Beckman DxI800
	ng/ml	3.45	2.59	4.31	
	ng/dl	345	259	431	
	nmol/l	5.64	4.23	7.05	Roche Elecsys
	ng/ml	3.67	2.75	4.59	
	ng/dl	367	275	459	
	nmol/l	5.35	4.01	6.69	Beckman Access
	ng/ml	3.48	2.61	4.35	
	ng/dl	348	261	435	
	nmol/l	5.13	3.85	6.41	Tosoh Series
	ng/ml	3.34	2.51	4.17	
	ng/dl	334	251	417	
nmol/l	6.69	5.02	8.36	Vitros ECi	
ng/ml	4.36	3.27	5.45		
ng/dl	436	327	545		
nmol/l	4.72	3.54	5.90	CIS RIA Coated tube	
ng/ml	3.07	2.30	3.84		
ng/dl	307	230	384		
nmol/l	5.58	4.19	6.98	Roche Cobas 4000/E411	
ng/ml	3.63	2.73	4.53		
ng/dl	363	273	453		
nmol/l	4.13	3.10	5.16	Immunotech RIA	
ng/ml	2.69	2.02	3.36		
ng/dl	269	202	336		
nmol/l	5.47	4.10	6.84	Roche Cobas e601/602	
ng/ml	3.56	2.67	4.45		
ng/dl	356	267	445		
nmol/l	6.31	4.73	7.89	Siemens Centaur CP	
ng/ml	4.11	3.08	5.14		
ng/dl	411	308	514		
nmol/l	4.38	3.29	5.48	Diasorin Liaison XL	
ng/ml	2.85	2.14	3.56		
ng/dl	285	214	356		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	4.79	3.59	5.99	Abbott Alinity i
	ng/ml	3.12	2.34	3.90	
	ng/dl	312	234	390	
	nmol/l	5.89	4.42	7.36	Siemens Atellica IM
	ng/ml	3.83	2.88	4.78	
	ng/dl	383	288	478	
	nmol/l	5.91	4.43	7.39	Roche Cobas e402/e801
	ng/ml	3.85	2.88	4.82	
	ng/dl	385	288	482	
	nmol/l	5.32	3.99	6.65	Tosoh AIA-CL Series
	ng/ml	3.46	2.60	4.32	
	ng/dl	346	260	432	
Total T4	nmol/l	188	141	235	Abbott Architect
	µg/dl	14.7	11.0	18.4	
	ng/ml	147	110	184	
	nmol/l	206	155	258	BioMerieux Vidas
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	210	158	263	Siemens Centaur XP/XPT/Classic
	µg/dl	16.4	12.3	20.5	
	ng/ml	164	123	205	
	nmol/l	186	140	233	Siemens Immulite 2000/2500
	µg/dl	14.5	10.9	18.1	
	ng/ml	145	109	181	
	nmol/l	188	141	235	Siemens Immulite 1000
	µg/dl	14.7	11.0	18.4	
	ng/ml	147	110	184	
	nmol/l	206	155	258	Beckman Dxl800
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	175	131	219	Roche Elecsys
	µg/dl	13.7	10.2	17.2	
	ng/ml	137	102	172	
	nmol/l	200	150	250	Beckman Access
	µg/dl	15.6	11.7	19.5	
	ng/ml	156	117	195	
nmol/l	191	143	239	Tosoh Series	
µg/dl	14.9	11.2	18.6		
ng/ml	149	112	186		
nmol/l	202	152	253	Vitros ECi	
µg/dl	15.8	11.9	19.7		
ng/ml	158	119	197		
nmol/l	236	177	295	CIS RIA Coated tube	
µg/dl	18.4	13.8	23.0		
ng/ml	184	138	230		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	173	130	216	Roche Cobas 4000/E411
	µg/dl	13.5	10.1	16.9	
	ng/ml	135	101	169	
	nmol/l	171	128	214	Roche Cobas e601/602
	µg/dl	13.3	9.98	16.6	
	ng/ml	133	100	166	
	nmol/l	147	110	184	Immunotech IRMA
	µg/dl	11.5	8.58	14.4	
	ng/ml	115	85.8	144	
	nmol/l	214	161	268	Siemens Centaur CP
	µg/dl	16.7	12.6	20.8	
	ng/ml	167	126	208	
	nmol/l	182	137	228	Diasorin Liaison XL
	µg/dl	14.2	10.7	17.7	
	ng/ml	142	107	177	
	nmol/l	186	140	233	Abbott Alinity i
	µg/dl	14.5	10.9	18.1	
	ng/ml	145	109	181	
nmol/l	224	168	280	Siemens Atellica IM	
µg/dl	17.5	13.1	21.9		
ng/ml	175	131	219		
nmol/l	169	127	211	Roche Cobas e402/e801	
µg/dl	13.2	9.91	16.5		
ng/ml	132	99.1	165		
nmol/l	215	161	269	Tosoh AIA-CL Series	
µg/dl	16.8	12.6	21.0		
ng/ml	168	126	210		
Valproic Acid	µmol/l	940	752	1128	Abbott Architect (CMIA)
	µg/ml	136	109	163	
	µmol/l	992	794	1190	Siemens Centaur XP/XPT/Classic
	µg/ml	143	115	171	
	µmol/l	897	718	1076	Siemens Dimension
	µg/ml	129	104	154	
	µmol/l	998	798	1198	Siemens Immulite 2000/2500
	µg/ml	144	115	173	
	µmol/l	1031	825	1237	Siemens Immulite 1000
	µg/ml	149	119	179	
	µmol/l	934	747	1121	Roche Integra
	µg/ml	135	108	162	
	µmol/l	974	779	1169	Vitros
	µg/ml	141	112	170	
	µmol/l	938	750	1126	Roche Cobas 6000/8000
	µg/ml	135	108	162	
	µmol/l	968	774	1162	Beckman DxC
	µg/ml	140	112	168	
µmol/l	966	773	1159	Beckman AU400/600/640/2700/5400	
µg/ml	139	112	166		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	1013	810	1216	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	146	117	175	
	µmol/l	921	737	1105	Abbott Architect (PETINA)
	µg/ml	133	106	160	
	µmol/l	996	797	1195	EMIT
	µg/ml	144	115	173	
	µmol/l	913	730	1096	Siemens Atellica CH
	µg/ml	132	105	159	
	µmol/l	904	723	1085	Abbott Alinity (CMIA)
	µg/ml	130	104	156	
	µmol/l	902	722	1082	Abbott Alinity (PETINA)
	µg/ml	130	104	156	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
Vancomycin	µmol/l	10.7	8.56	12.8	Roche Integra
	µg/ml	15.9	12.7	19.1	
	µmol/l	9.64	7.71	11.6	Ortho Vitros Microslide Systems
	µg/ml	14.3	11.5	17.1	
	µmol/l	12.4	9.92	14.9	Abbott Architect (CMIA)
	µg/ml	18.4	14.7	22.1	
	µmol/l	9.76	7.81	11.7	Siemens Centaur XP/XPT/Classic
	µg/ml	14.5	11.6	17.4	
	µmol/l	11.1	8.88	13.3	Siemens Dimension
	µg/ml	16.5	13.2	19.8	
	µmol/l	10.9	8.72	13.1	Roche Cobas 6000/8000
	µg/ml	16.2	13.0	19.4	
	µmol/l	9.49	7.59	11.4	Beckman DxC
	µg/ml	14.1	11.3	16.9	
	µmol/l	10.6	8.48	12.7	Thermo Scientific QMS Vancomycin
	µg/ml	15.7	12.6	18.8	
	µmol/l	10.7	8.56	12.8	Abbott Architect (PETINA)
	µg/ml	15.9	12.7	19.1	
	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 (CMIA)	
µg/ml	16.3	13.1	19.5		
µmol/l	10.8	8.64	13.0	Abbott Alinity (PETINA)	
µg/ml	16.0	12.8	19.2		
µmol/l	10.8	8.64	13.0	Gravimetric	
µg/ml	16.0	12.8	19.3		
Vitamin B12	pmol/l	515	412	618	Abbott Architect
	pg/ml	698	558	838	
	pmol/l	625	500	750	Siemens Centaur XP/XPT/Classic
	pg/ml	847	678	1016	
	pmol/l	589	471	707	Siemens Immulite 2000
pg/ml	798	638	958		

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

Cat. No. IA3111 / IA3112 Lot. No. 2110EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	489	391	587	Beckman DxI800
	pg/ml	663	530	796	
	pmol/l	629	503	755	Roche Elecsys
	pg/ml	852	682	1022	
	pmol/l	514	411	617	Beckman Access
	pg/ml	696	557	835	
	pmol/l	762	610	914	Tosoh Series
	pg/ml	1033	827	1239	
	pmol/l	638	510	766	Vitros ECi
	pg/ml	864	691	1037	
	pmol/l	582	466	698	Siemens Dimension
	pg/ml	789	631	947	
	pmol/l	707	566	848	Siemens Centaur CP
	pg/ml	958	767	1149	
	pmol/l	634	507	761	Roche Cobas 4000/e411 Gen II
	pg/ml	859	687	1031	
	pmol/l	653	522	784	Roche Cobas e601/602 Gen II
	pg/ml	885	707	1063	
	pmol/l	537	430	644	Diasorin Liaison XL
	pg/ml	728	583	873	
pmol/l	665	532	798	Siemens Atellica IM	
pg/ml	901	721	1081		
pmol/l	464	371	557	Abbott Alinity i	
pg/ml	629	503	755		
pmol/l	636	509	763	Roche Cobas e801 Gen II	
pg/ml	862	690	1034		