

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. 2231EC	EXPIRY: 2025-11-28	

INTENDED USE

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

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

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

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

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

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

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

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

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

- Carefully reconstitute each vial of lyophilised serum with exactly 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.

EC	REP
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Randox Teoranta, Meenmore,
Dungloe, Donegal,
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IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods	
			low	high		
17-OH-Progesterone	nmol/l	40.0	30.0	50.0	DRG ELISA	
	ng/ml	13.2	9.93	16.5		
	nmol/l	31.0	23.3	38.8	DIAsource RIA	
	ng/ml	10.3	7.71	12.9		
	nmol/l	43.9	32.9	54.9	LC/MS	
	ng/ml	14.5	10.9	18.1		
	nmol/l	34.7	26.0	43.4	SNIBE Maglumi Analysers	
	ng/ml	11.5	8.61	14.4		
	nmol/l	23.0	17.3	28.8	IDS-Isys 17-OH Progesterone	
	ng/ml	7.61	5.73	9.49		
	25-OH Vitamin D	nmol/l	114	85.5	143	Diasorin Liaison
		nmol/l	138	104	173	Siemens Centaur XP/XPT/Classic
nmol/l		92.5	69.4	116	Roche Vitamin D Total	
nmol/l		107	80.3	134	Abbott Architect (3L52)	
nmol/l		115	86.3	144	SNIBE Maglumi Analysers	
nmol/l		135	101	169	Vitros ECi	
nmol/l		102	76.5	128	Tosoh Series	
nmol/l		105	78.8	131	BioMerieux Vidas	
nmol/l		111	83.3	139	Beckman Dxl 600/800	
nmol/l		103	77.3	129	Beckman Access 25 OH Vitamin D Total	
nmol/l		97.8	73.4	122	Siemens Dimension EXL Vitamin D Total	
nmol/l		106	79.5	133	Abbott Architect (5P02)/ Alinity (8P45)	
nmol/l		116	87.0	145	Diasorin Liaison XL	
nmol/l		93.2	69.9	117	Roche Vitamin D Total II	
nmol/l		110	82.5	138	Abbott Alinity i	
ACTH		pmol/l	94.3	70.7	118	Siemens Immulite 2000/2500
	pg/ml	429	321	537		
	pmol/l	107	80.3	134	Diasorin Liaison XL	
	pg/ml	486	365	607		
	pmol/l	52.8	39.6	66.0	Roche Cobas e402/e801	
	pg/ml	240	180	300		
Aldosterone	pmol/l	1258	944	1573	DRG ELISA	
	pg/ml	454	341	567		
	pmol/l	1258	944	1573	Immunotech RIA	
	pg/ml	454	341	567		
	pmol/l	556	417	695	SNIBE Maglumi Analysers	
	pg/ml	201	150	252		
	pmol/l	966	725	1208	IDS iSYS	
	pg/ml	349	262	436		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Aldosterone	pmol/l	819	614	1024	Diasorin Liaison
	pg/ml	295	222	368	
	pmol/l	907	680	1134	Diasorin Liaison XL
	pg/ml	327	245	409	
Alphafoetoprotein	KIU/l = IU/ml	182	146	218	Abbott Architect
	ng/ml	220	177	263	
	KIU/l = IU/ml	193	154	232	BioMerieux Vidas
	ng/ml	234	186	282	
	KIU/l = IU/ml	218	174	262	Siemens Centaur XP/XPT/Classic
	ng/ml	264	211	317	
	KIU/l = IU/ml	185	148	222	Siemens Immulite 2000/2500
	ng/ml	224	179	269	
	KIU/l = IU/ml	206	165	247	Siemens Immulite 1000
	ng/ml	249	200	298	
	KIU/l = IU/ml	172	138	206	Beckman Dxl800
	ng/ml	208	167	249	
	KIU/l = IU/ml	201	161	241	Roche Elecsys
	ng/ml	243	195	291	
	KIU/l = IU/ml	178	142	214	Beckman Access
	ng/ml	215	172	258	
	KIU/l = IU/ml	177	142	212	Tosoh Series
	ng/ml	214	172	256	
	KIU/l = IU/ml	189	151	227	Vitros ECi
	ng/ml	197	158	236	
	KIU/l = IU/ml	204	163	245	Roche Cobas e601/602
	ng/ml	247	197	297	
	KIU/l = IU/ml	208	166	250	Roche Cobas 4000/E411
	ng/ml	252	201	303	
	KIU/l = IU/ml	204	163	245	SNIBE Maglumi Analysers
	ng/ml	247	197	297	
	KIU/l = IU/ml	224	179	269	Siemens Centaur CP
	ng/ml	271	217	325	
	KIU/l = IU/ml	212	170	254	Immunotech IRMA
	ng/ml	257	206	308	
	KIU/l = IU/ml	190	152	228	Sysmex HISCL Series
	ng/ml	230	184	276	
KIU/l = IU/ml	192	154	230	Mindray CL Series	
ng/ml	232	186	278		
KIU/l = IU/ml	219	175	263	Diasorin Liaison XL	
ng/ml	265	212	318		
KIU/l = IU/ml	214	171	257	Siemens Atellica IM	
ng/ml	259	207	311		
KIU/l = IU/ml	183	146	220	Abbott Alinity i	
ng/ml	221	177	265		
KIU/l = IU/ml	198	158	238	Roche Cobas e402/e801	
ng/ml	240	191	289		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	175	140	210	Tosoh AIA-CL Series
	ng/ml	212	169	255	
Amikacin	µmol/l	24.4	19.5	29.3	EMIT
	µg/ml	14.3	11.4	17.2	
	µmol/l	23.8	19.0	28.6	Roche Cobas 6000/8000
	µg/ml	13.9	11.1	16.7	
	µmol/l	24.6	19.7	29.5	Thermo Scientific QMS Amikacin
	µg/ml	14.4	11.5	17.3	
	µmol/l	24.3	19.4	29.2	Abbott Alinity
	µg/ml	14.2	11.4	17.0	
Androstenedione	nmol/l	34.9	26.2	43.6	Siemens Immulite 2000
	ng/ml	10.0	7.52	12.5	
	nmol/l	19.8	14.9	24.8	LC/MS
	ng/ml	5.68	4.28	7.08	
	nmol/l	26.0	19.5	32.5	Diasorin Liaison XL
	ng/ml	7.46	5.60	9.32	
	nmol/l	20.4	15.3	25.5	Siemens Atellica IM
	ng/ml	5.85	4.39	7.31	
Beta-2-microglobulin	µg/ml = mg/l	5.70	4.56	6.84	Abbott Architect
	µg/ml = mg/l	6.16	4.93	7.39	BioMerieux Vidas
	µg/ml = mg/l	5.67	4.54	6.80	Behring Nephelometer
	µg/ml = mg/l	4.99	3.99	5.99	Siemens Immulite 2000/2500
	µg/ml = mg/l	5.97	4.78	7.16	Tosoh Series
	µg/ml = mg/l	5.57	4.46	6.68	Roche Cobas 6000/8000
	µg/ml = mg/l	5.35	4.28	6.42	SNIBE Maglumi Analysers
	µg/ml = mg/l	6.39	5.11	7.67	Siemens Atellica CH
C-Peptide	nmol/l	3.360	2.520	4.200	Siemens Immulite 2000/2500
	ng/ml	10.1	7.61	12.6	
	nmol/l	3.360	2.520	4.200	Roche Elecsys
	ng/ml	10.1	7.61	12.6	
	nmol/l	3.350	2.510	4.190	Roche Cobas e601/602
	ng/ml	10.1	7.58	12.6	
	nmol/l	3.710	2.780	4.640	Diasorin Liaison
	ng/ml	11.2	8.39	14.0	
	nmol/l	3.320	2.490	4.150	Roche Cobas 4000/E411
	ng/ml	10.0	7.52	12.5	
	nmol/l	3.130	2.350	3.910	Abbott Architect
	ng/ml	9.45	7.09	11.8	
	nmol/l	2.710	2.030	3.390	Siemens Centaur XP/XPT/Classic
	ng/ml	8.18	6.13	10.2	
	nmol/l	3.320	2.490	4.150	Tosoh Series
	ng/ml	10.0	7.52	12.5	
nmol/l	4.880	3.660	6.100	SNIBE Maglumi Analysers	
ng/ml	14.7	11.0	18.4		

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Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	3.650	2.740	4.560	Diasorin Liaison XL
	ng/ml	11.0	8.27	13.7	
	nmol/l	3.270	2.450	4.090	Roche Cobas e402/e801
	ng/ml	9.87	7.40	12.3	
	nmol/l	2.750	2.060	3.440	Siemens Atellica IM
	ng/ml	8.30	6.22	10.4	
	nmol/l	3.210	2.410	4.010	Vitros ECi
	ng/ml	9.69	7.28	12.1	
	nmol/l	3.450	2.590	4.310	Tosoh AIA-CL Series
	ng/ml	10.4	7.82	13.0	
	nmol/l	2.360	1.770	2.950	Beckman Access
	ng/ml	7.12	5.34	8.90	
	nmol/l	3.050	2.290	3.810	Abbott Alinity i
	ng/ml	9.21	6.91	11.5	
CA 15-3	U/ml	83.9	67.1	101	Abbott Architect
	U/ml	70.5	56.4	84.6	BioMerieux Vidas
	U/ml	70.6	56.5	84.7	Siemens Centaur XP/XPT/Classic
	U/ml	75.9	60.7	91.1	Siemens Immulite 2000/2500
	U/ml	33.5	26.8	40.2	Beckman DxI800
	U/ml	75.8	60.6	91.0	Roche Elecsys
	U/ml	33.7	27.0	40.4	Beckman Access
	U/ml	84.0	67.2	101	Tosoh Series
	U/ml	68.9	55.1	82.7	Vitros ECi
	U/ml	78.7	63.0	94.4	Roche Cobas e601/602
	U/ml	71.6	57.3	85.9	Immunotech IRMA
	U/ml	78.7	63.0	94.4	Roche Cobas 4000/E411
	U/ml	100	80.0	120	SNIBE Maglumi Analysers
	U/ml	81.7	65.4	98.0	Fujirebio Lumipulse G Series
	U/ml	71.4	57.1	85.7	Siemens Centaur CP
	U/ml	36.7	29.4	44.0	Mindray CL 8000i/6000i/2000i/1200i/1000i
	U/ml	76.8	61.4	92.2	Diasorin Liaison XL
	U/ml	74.2	59.4	89.0	Siemens Atellica IM
	U/ml	75.9	60.7	91.1	Roche Cobas e402/e801
	U/ml	81.2	65.0	97.4	Abbott Alinity i
CA 19-9	U/ml	250	200	300	BioMerieux Vidas
	U/ml	228	182	274	Siemens Centaur XP/XPT/Classic
	U/ml	274	219	329	Siemens Immulite 2000/2500
	U/ml	297	238	356	Beckman DxI800
	U/ml	166	133	199	Roche Elecsys
	U/ml	325	260	390	Beckman Access
	U/ml	140	112	168	Tosoh Series
	U/ml	328	262	394	Vitros ECi
	U/ml	491	393	589	Abbott Architect XR/XR2/XRL
	U/ml	161	129	193	Roche Cobas e601/602
	U/ml	165	132	198	Roche Cobas 4000/E411

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
CA 19-9	U/ml	132	106	158	SNIBE Maglumi Analysers
	U/ml	196	157	235	Izotop RIA
	U/ml	211	169	253	Siemens Centaur CP
	U/ml	108	86.4	130	Immunotech IRMA
	U/ml	153	122	184	Mindray CL 8000i/6000i/2000i/1200i/1000i
	U/ml	234	187	281	Diasorin Liaison XL
	U/ml	262	210	314	Siemens Atellica IM
	U/ml	162	130	194	Roche Cobas e402/e801
	U/ml	508	406	610	Abbott Alinity XR/XR2/XRL
CA125	U/ml	245	196	294	Abbott Architect
	U/ml	210	168	252	BioMerieux Vidas
	U/ml	207	166	248	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	207	166	248	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	159	127	191	Siemens Immulite 2000/2500
	U/ml	179	143	215	Siemens Immulite 1000
	U/ml	157	126	188	Beckman Dxl800
	U/ml	193	154	232	Roche Elecsys
	U/ml	158	126	190	Beckman Access
	U/ml	361	289	433	Tosoh Series
	U/ml	187	150	224	Vitros ECi
	U/ml	194	155	233	Roche Cobas 4000/E411
	U/ml	191	153	229	Roche Cobas e601/602
	U/ml	95.3	76.2	114	Immunotech IRMA
	U/ml	165	132	198	SNIBE Maglumi Analysers
	U/ml	200	160	240	Siemens Centaur CP CA125 II kit
	U/ml	290	232	348	Mindray CL 8000i/6000i/2000i/1200i/1000i
	U/ml	245	196	294	Diasorin Liaison XL
	U/ml	237	190	284	Siemens Atellica IM
	U/ml	173	138	208	Roche Cobas e402/e801
U/ml	247	198	296	Abbott Alinity i	
Carbamazepine	µmol/l	72.6	58.1	87.1	Abbott Architect (CMIA)
	µg/ml	17.2	13.7	20.7	
	µmol/l	73.2	58.6	87.8	Siemens Centaur XP/XPT/Classic
	µg/ml	17.3	13.9	20.7	
	µmol/l	64.4	51.5	77.3	Siemens Immulite 2000/2500
	µg/ml	15.2	12.2	18.2	
	µmol/l	74.8	59.8	89.8	Roche Integra
	µg/ml	17.7	14.1	21.3	
	µmol/l	71.3	57.0	85.6	Roche Cobas 6000/8000
	µg/ml	16.9	13.5	20.3	
	µmol/l	73.1	58.5	87.7	Beckman AU400/600/640/2700/5400
	µg/ml	17.3	13.8	20.8	
	µmol/l	55.9	44.7	67.1	Abbott Architect (PETINA)
µg/ml	13.2	10.6	15.8		
µmol/l	74.0	59.2	88.8	EMIT	
µg/ml	17.5	14.0	21.0		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	60.1	48.1	72.1	Siemens Atellica CH
	µg/ml	14.2	11.4	17.0	
	µmol/l	53.5	42.8	64.2	Abbott Alinity (CMIA)
	µg/ml	12.6	10.1	15.1	
	µmol/l	56.1	44.9	67.3	Abbott Alinity (PETINA)
	µg/ml	13.3	10.6	16.0	
Carcinoembryonic Antigen (CEA)	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
	ng/ml = µg/l	69.6	55.7	83.5	Abbott Architect
	ng/ml = µg/l	62.7	50.2	75.2	BioMerieux Vidas
	ng/ml = µg/l	60.5	48.4	72.6	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	82.1	65.7	98.5	Siemens Immulite 2000/2500
	ng/ml = µg/l	57.4	45.9	68.9	Beckman DxI800
	ng/ml = µg/l	47.9	38.3	57.5	Roche Elecsys
	ng/ml = µg/l	60.2	48.2	72.2	Beckman Access
	ng/ml = µg/l	76.0	60.8	91.2	Tosoh Series
	ng/ml = µg/l	61.5	49.2	73.8	Vitros ECI
	ng/ml = µg/l	48.5	38.8	58.2	Roche Cobas e601/602
	ng/ml = µg/l	56.5	45.2	67.8	Immunotech IRMA
	ng/ml = µg/l	48.8	39.0	58.6	Roche Cobas 4000/E411
	ng/ml = µg/l	58.4	46.7	70.1	SNIBE Maglumi Analysers
	ng/ml = µg/l	60.7	48.6	72.8	Boditech Med Inc i-CHROMA
	ng/ml = µg/l	61.2	49.0	73.4	Siemens Centaur CP
	ng/ml = µg/l	58.7	47.0	70.4	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/ml = µg/l	66.1	52.9	79.3	Diasorin Liaison XL
	ng/ml = µg/l	58.8	47.0	70.6	Siemens Atellica IM
ng/ml = µg/l	49.5	39.6	59.4	Roche Cobas e402/e801	
ng/ml = µg/l	69.6	55.7	83.5	Abbott Alinity i	
Cortisol	nmol/l	929	697	1161	Abbott Architect
	µg/dl	33.4	25.1	41.7	
	nmol/l	1004	753	1255	BioMerieux Vidas
	µg/dl	36.1	27.1	45.1	
	nmol/l	1180	885	1475	Siemens Centaur XP/XPT/Classic
	µg/dl	42.5	31.9	53.1	
	nmol/l	884	663	1105	Siemens Immulite 2000/2500
	µg/dl	31.8	23.9	39.7	
	nmol/l	929	697	1161	Siemens Immulite 1000
	µg/dl	33.4	25.1	41.7	
	nmol/l	1050	788	1313	Beckman DxI800
	µg/dl	37.8	28.4	47.2	
	nmol/l	1036	777	1295	Roche Elecsys
	µg/dl	37.3	28.0	46.6	
nmol/l	1194	896	1493	Beckman Access	
µg/dl	43.0	32.3	53.7		
nmol/l	1091	818	1364	Tosoh Series	
µg/dl	39.3	29.4	49.2		

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Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	980	735	1225	Vitros ECI
	µg/dl	35.3	26.5	44.1	
	nmol/l	1023	767	1279	Roche Cobas e601/602
	µg/dl	36.8	27.6	46.0	
	nmol/l	1088	816	1360	Roche Cobas 4000/E411
	µg/dl	39.2	29.4	49.0	
	nmol/l	1102	827	1378	Immunotech RIA
	µg/dl	39.7	29.8	49.6	
	nmol/l	1195	896	1494	SNIBE Maglumi Analysers
	µg/dl	43.0	32.3	53.7	
	nmol/l	1087	815	1359	Roche Cobas 4000/e411 Gen II
	µg/dl	39.1	29.3	48.9	
	nmol/l	1034	776	1293	Roche Cobas e601/602 Gen II
	µg/dl	37.2	27.9	46.5	
	nmol/l	1064	798	1330	Roche Elecsys Gen II
	µg/dl	38.3	28.7	47.9	
nmol/l	1177	883	1471	Diasorin Liaison XL	
µg/dl	42.4	31.8	53.0		
nmol/l	1279	959	1599	Siemens Atellica IM	
µg/dl	46.0	34.5	57.5		
nmol/l	1025	769	1281	Roche Cobas e402/e801	
µg/dl	36.9	27.7	46.1		
nmol/l	1083	812	1354	Tosoh AIA-CL Series	
µg/dl	39.0	29.2	48.8		
nmol/l	917	688	1146	Abbott Alinity i	
µg/dl	33.0	24.8	41.2		
DHEA-S	µmol/l	22.6	18.1	27.1	Abbott Architect
	µmol/l	19.3	15.4	23.2	Siemens Immulite 2000/2500
	µmol/l	18.6	14.9	22.3	Siemens Immulite 1000
	µmol/l	17.8	14.2	21.4	Beckman Dxl800
	µmol/l	18.6	14.9	22.3	Beckman Access
	µmol/l	18.9	15.1	22.7	Siemens Centaur XP/XPT/Classic
	µmol/l	28.0	22.4	33.6	Roche Cobas 4000/E411
	µmol/l	26.5	21.2	31.8	Roche Cobas e601/602
	µmol/l	20.4	16.3	24.5	SNIBE Maglumi Analysers
	µmol/l	17.7	14.2	21.2	Siemens Atellica IM
	µmol/l	26.5	21.2	31.8	Roche Cobas e402/e801
µmol/l	23.0	18.4	27.6	Abbott Alinity i	
Digoxin	nmol/l	4.81	3.85	5.77	Abbott Architect (CMIA)
	ng/ml	3.76	3.01	4.51	
	nmol/l	4.79	3.83	5.75	BioMerieux Vidas
	ng/ml	3.74	2.99	4.49	
	nmol/l	5.41	4.33	6.49	Siemens Centaur XP/XPT/Classic
	ng/ml	4.23	3.38	5.07	
nmol/l	4.97	3.98	5.96	Siemens Dimension	
ng/ml	3.88	3.11	4.65		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	5.01	4.01	6.01	Beckman DxI800
	ng/ml	3.91	3.13	4.69	
	nmol/l	5.13	4.10	6.16	Roche Integra
	ng/ml	4.01	3.20	4.81	
	nmol/l	4.97	3.98	5.96	Roche Cobas e601/602
	ng/ml	3.88	3.11	4.65	
	nmol/l	5.17	4.14	6.20	Beckman AU400/600/640/2700/5400
	ng/ml	4.04	3.23	4.84	
	nmol/l	5.23	4.18	6.28	SNIBE Maglumi Analysers
	ng/ml	4.08	3.26	4.90	
	nmol/l	5.33	4.26	6.40	Roche Cobas 4000/E411
	ng/ml	4.16	3.33	5.00	
	nmol/l	4.69	3.75	5.63	Abbott Architect (PETINA)
	ng/ml	3.66	2.93	4.40	
	nmol/l	4.95	3.96	5.94	Roche Cobas e402/e801
	ng/ml	3.87	3.09	4.64	
	nmol/l	6.04	4.83	7.25	Siemens Atellica IM
	ng/ml	4.72	3.77	5.66	
	nmol/l	5.19	4.15	6.23	Siemens Atellica CH
	ng/ml	4.05	3.24	4.87	
nmol/l	4.86	3.89	5.83	Abbott Alinity (CMIA)	
ng/ml	3.80	3.04	4.55		
nmol/l	4.99	3.99	5.99	Abbott Alinity (PETINA)	
ng/ml	3.90	3.12	4.68		
nmol/l	5.12	4.10	6.14	Gravimetric	
ng/ml	4.00	3.20	4.80		
Ethosuximide	µmol/l	493	394	592	Gravimetric
	µg/ml	69.9	55.9	83.9	
Ferritin	ng/ml = µg/l	327	262	392	Abbott Architect
	ng/ml = µg/l	242	194	290	BioMerieux Vidas
	ng/ml = µg/l	230	184	276	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	286	229	343	Siemens Dimension
	ng/ml = µg/l	271	217	325	Siemens Immulite 2000/2500
	ng/ml = µg/l	223	178	268	Siemens Immulite 1000
	ng/ml = µg/l	202	162	242	Beckman DxI800
	ng/ml = µg/l	313	250	376	Roche Elecsys/Cobas e411
	ng/ml = µg/l	307	246	368	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	216	173	259	Beckman Access
	ng/ml = µg/l	208	166	250	Tosoh Series
	ng/ml = µg/l	194	155	233	Vitros ECi
	ng/ml = µg/l	301	241	361	Roche Cobas 4000/c311
	ng/ml = µg/l	248	198	298	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	284	227	341	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	342	274	410	SNIBE Maglumi Analysers
	ng/ml = µg/l	234	187	281	Siemens Centaur CP
ng/ml = µg/l	324	259	389	Diasorin Liaison XL	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	341	273	409	Abbott Alinity i
	ng/ml = µg/l	217	174	260	Siemens Atellica IM
	ng/ml = µg/l	300	240	360	Roche Cobas e402/e801
Folate	nmol/l	16.2	12.3	20.1	Abbott Architect
	ng/ml	7.14	5.42	8.86	
	nmol/l	36.3	27.6	45.0	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	16.0	12.2	19.8	
	nmol/l	13.4	10.2	16.6	Siemens Immulite 2000
	ng/ml	5.91	4.50	7.32	
	nmol/l	19.4	14.7	24.1	Beckman Dxl 600 / 800 - A14208
	ng/ml	8.56	6.48	10.6	
	nmol/l	19.4	14.7	24.1	Beckman Access
	ng/ml	8.56	6.48	10.6	
	nmol/l	10.8	8.21	13.4	Vitros Eci
	ng/ml	4.76	3.62	5.90	
	nmol/l	10.5	7.98	13.0	Siemens Dimension
	ng/ml	4.63	3.52	5.74	
	nmol/l	18.9	14.4	23.4	Beckman Dxl 600 / 800 - A98032
	ng/ml	8.33	6.35	10.3	
	nmol/l	20.8	15.8	25.8	Roche Folate III - 04476433
	ng/ml	9.17	6.97	11.4	
	nmol/l	20.7	15.7	25.7	Roche Elecsys Folate
	ng/ml	9.13	6.92	11.3	
nmol/l	21.0	16.0	26.0	Roche Folate III - 07559992	
ng/ml	9.26	7.06	11.5		
nmol/l	32.5	24.7	40.3	Siemens Atellica IM	
ng/ml	14.3	10.9	17.7		
nmol/l	17.3	13.1	21.5	Abbott Alinity i	
ng/ml	7.63	5.78	9.48		
nmol/l	20.4	15.5	25.3	Roche Folate 07027290 e801	
ng/ml	9.00	6.84	11.2		
Free T3	pmol/l	24.1	18.1	30.1	Abbott Architect, 2 point calibration
	ng/dl	1.57	1.18	1.96	
	pg/ml	15.7	11.8	19.6	
	pmol/l	23.1	17.3	28.9	BioMerieux Vidas
	ng/dl	1.50	1.12	1.88	
	pg/ml	15.0	11.3	18.7	
	pmol/l	23.4	17.6	29.3	Siemens Centaur XP/XPT/Classic
	ng/dl	1.52	1.14	1.90	
	pg/ml	15.2	11.5	18.9	
	pmol/l	15.5	11.6	19.4	Siemens Immulite 2000/2500
	ng/dl	1.01	0.754	1.27	
	pg/ml	10.1	7.55	12.7	
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		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	16.7	12.5	20.9	Beckman DxI800
	ng/dl	1.09	0.813	1.37	
	pg/ml	10.9	8.14	13.7	
	pmol/l	27.7	20.8	34.6	Roche Elecsys
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	31.8	23.9	39.8	Diasorin Liaison
	ng/dl	2.07	1.55	2.59	
	pg/ml	20.7	15.6	25.8	
	pmol/l	18.1	13.6	22.6	Beckman Access
	ng/dl	1.18	0.884	1.48	
	pg/ml	11.8	8.85	14.8	
	pmol/l	36.1	27.1	45.1	Tosoh Series
	ng/dl	2.35	1.76	2.94	
	pg/ml	23.5	17.6	29.4	
	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	27.7	20.8	34.6	Roche Cobas 4000/E411
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	28.3	21.2	35.4	Roche Cobas e601/602
	ng/dl	1.84	1.38	2.30	
	pg/ml	18.4	13.8	23.0	
	pmol/l	35.3	26.5	44.1	SNIBE Maglumi Analysers
	ng/dl	2.29	1.72	2.86	
	pg/ml	23.0	17.3	28.7	
	pmol/l	24.7	18.5	30.9	Siemens Centaur CP
	ng/dl	1.61	1.20	2.02	
	pg/ml	16.1	12.0	20.2	
pmol/l	21.4	16.1	26.8	Mindray CL 8000i/6000i/2000i/1200i/1000i	
ng/dl	1.39	1.05	1.73		
pg/ml	13.9	10.5	17.3		
pmol/l	24.8	18.6	31.0	Sysmex HISCL Series	
ng/dl	1.61	1.21	2.01		
pg/ml	16.1	12.1	20.1		
pmol/l	31.4	23.6	39.3	Diasorin Liaison XL	
ng/dl	2.04	1.53	2.55		
pg/ml	20.4	15.4	25.4		
pmol/l	25.5	19.1	31.9	Siemens Atellica IM	
ng/dl	1.66	1.24	2.08		
pg/ml	16.6	12.4	20.8		
pmol/l	24.6	18.5	30.8	Abbott Alinity, 2 point cal	
ng/dl	1.60	1.20	2.00		
pg/ml	16.0	12.0	20.0		
pmol/l	24.4	18.3	30.5	Abbott Architect, 6 point calibration	
ng/dl	1.59	1.19	1.99		
pg/ml	15.9	11.9	19.9		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	27.7	20.8	34.6	Roche Cobas e402/e801
	ng/dl	1.80	1.35	2.25	
	pg/ml	18.0	13.5	22.5	
	pmol/l	27.5	20.6	34.4	Tosoh AIA-CL Series
	ng/dl	1.79	1.34	2.24	
	pg/ml	17.9	13.4	22.4	
	pmol/l	24.0	18.0	30.0	Abbott Alinity, 6 point cal
	ng/dl	1.56	1.17	1.95	
	pg/ml	15.6	11.7	19.5	
Free T4	pmol/l	50.4	37.8	63.0	Abbott Architect
	ng/dl	3.93	2.95	4.91	
	pg/ml	39.3	29.5	49.1	
	pmol/l	50.1	37.6	62.6	Siemens Centaur XP/XPT/Classic
	ng/dl	3.91	2.93	4.89	
	pg/ml	39.1	29.3	48.9	
	pmol/l	82.1	61.6	103	Siemens Dimension
	ng/dl	6.40	4.80	8.00	
	pg/ml	64.0	48.0	80.0	
	pmol/l	74.6	56.0	93.3	Siemens Immulite 2000/2500
	ng/dl	5.82	4.37	7.27	
	pg/ml	58.2	43.7	72.7	
	pmol/l	76.7	57.5	95.9	Siemens Immulite 1000
	ng/dl	5.98	4.49	7.47	
	pg/ml	59.8	44.9	74.7	
	pmol/l	58.9	44.2	73.6	Beckman Dxl800
	ng/dl	4.59	3.45	5.73	
	pg/ml	45.9	34.5	57.3	
	pmol/l	74.1	55.6	92.6	Roche Elecsys
	ng/dl	5.78	4.34	7.22	
	pg/ml	57.8	43.4	72.2	
	pmol/l	100	75.0	125	Diasorin Liaison
	ng/dl	7.80	5.85	9.75	
	pg/ml	78.0	58.5	97.5	
	pmol/l	54.3	40.7	67.9	Beckman Access
	ng/dl	4.24	3.17	5.31	
	pg/ml	42.4	31.7	53.1	
pmol/l	72.7	54.5	90.9	Tosoh Series	
ng/dl	5.67	4.25	7.09		
pg/ml	56.7	42.5	70.9		
pmol/l	89.4	67.1	112	Vitros ECi	
ng/dl	6.97	5.23	8.71		
pg/ml	69.7	52.3	87.1		
pmol/l	71.6	53.7	89.5	Roche Cobas e601/602	
ng/dl	5.58	4.19	6.97		
pg/ml	55.8	41.9	69.7		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	72.0	54.0	90.0	Roche Cobas 4000/E411
	ng/dl	5.62	4.21	7.03	
	pg/ml	56.2	42.1	70.3	
	pmol/l	96.2	72.2	120	SNIBE Maglumi Analysers
	ng/dl	7.50	5.63	9.37	
	pg/ml	75.0	56.3	93.7	
	pmol/l	77.0	57.8	96.3	Biomerieux Vidas FT4N Kit
	ng/dl	6.01	4.51	7.51	
	pg/ml	60.1	45.1	75.1	
	pmol/l	45.7	34.3	57.1	Immunotech RIA
	ng/dl	3.56	2.68	4.44	
	pg/ml	35.6	26.8	44.4	
	pmol/l	86.6	65.0	108	Siemens Dimension Exl LOCI
	ng/dl	6.75	5.07	8.43	
	pg/ml	67.5	50.7	84.3	
	pmol/l	55.4	41.6	69.3	Siemens Centaur CP
	ng/dl	4.32	3.24	5.40	
	pg/ml	43.2	32.4	54.0	
	pmol/l	56.9	42.7	71.1	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/dl	4.44	3.33	5.55	
	pg/ml	44.4	33.3	55.5	
	pmol/l	82.5	61.9	103	Sysmex HISCL Series
	ng/dl	6.44	4.83	8.05	
	pg/ml	64.4	48.3	80.5	
pmol/l	110	82.5	138	Diasorin Liaison XL	
ng/dl	8.58	6.44	10.7		
pg/ml	85.8	64.4	107		
pmol/l	54.3	40.7	67.9	Siemens Atellica IM	
ng/dl	4.24	3.17	5.31		
pg/ml	42.4	31.7	53.1		
pmol/l	48.0	36.0	60.0	Abbott Alinity i	
ng/dl	3.74	2.81	4.67		
pg/ml	37.4	28.1	46.7		
pmol/l	73.9	55.4	92.4	Roche Cobas e402/e801	
ng/dl	5.76	4.32	7.20		
pg/ml	57.6	43.2	72.0		
pmol/l	68.3	51.2	85.4	Tosoh AIA-CL Series	
ng/dl	5.33	3.99	6.67		
pg/ml	53.3	39.9	66.7		
FSH	mU/ml	55.3	44.2	66.4	Abbott Architect
	mU/ml	68.6	54.9	82.3	BioMerieux Vidas
	mU/ml	77.4	61.9	92.9	Siemens Centaur XP/XPT/Classic
	mU/ml	59.3	47.4	71.2	Siemens Immulite 2000/2500
	mU/ml	56.5	45.2	67.8	Siemens Immulite 1000
	mU/ml	67.6	54.1	81.1	Beckman DxI800

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	57.0	45.6	68.4	Roche/BM Elecsys
	mU/ml	67.9	54.3	81.5	Beckman Access
	mU/ml	66.4	53.1	79.7	Tosoh Series
	mU/ml	47.5	38.0	57.0	Vitros ECI
	mU/ml	59.2	47.4	71.0	Roche Cobas 4000/E411
	mU/ml	56.2	45.0	67.4	Roche Cobas e601/602
	mU/ml	69.7	55.8	83.6	SNIBE Maglumi Analysers
	mU/ml	74.5	59.6	89.4	Siemens Centaur CP
	mU/ml	79.7	63.8	95.6	Mindray CL 8000i/6000i/2000i/1200i/1000i
	mU/ml	88.1	70.5	106	Diasorin Liaison XL
	mU/ml	75.2	60.2	90.2	Siemens Atellica IM
	mU/ml	54.7	43.8	65.6	Abbott Alinity i
mU/ml	57.4	45.9	68.9	Roche Cobas e402/e801	
Gentamicin	µmol/l	10.2	8.16	12.2	Roche Integra
	µg/ml	4.88	3.90	5.86	
	µmol/l	10.9	8.72	13.1	Abbott Architect (CMIA)
	µg/ml	5.21	4.17	6.25	
	µmol/l	7.97	6.38	9.56	Roche Cobas 6000/8000 Online KIMS
	µg/ml	3.81	3.05	4.57	
	µmol/l	9.16	7.33	11.0	Roche Cobas 6000/8000 CEDIA
	µg/ml	4.38	3.50	5.26	
	µmol/l	10.8	8.64	13.0	Siemens Atellica CH
	µg/ml	5.16	4.13	6.19	
	µmol/l	11.5	9.20	13.8	Abbott Alinity (PETINA)
	µg/ml	5.50	4.40	6.60	
Growth Hormone (GH)	µU/ml	42.4	33.9	50.9	Siemens Immulite 2000/2500
	ng/ml	14.1	11.3	16.9	
	µU/ml	40.0	32.0	48.0	Siemens Immulite 1000
	ng/ml	13.3	10.7	15.9	
	µU/ml	32.4	25.9	38.9	Beckman Dxl800
	ng/ml	10.8	8.62	13.0	
	µU/ml	43.6	34.9	52.3	Roche Elecsys
	ng/ml	14.5	11.6	17.4	
	µU/ml	34.3	27.4	41.2	Beckman Access
	ng/ml	11.4	9.12	13.7	
	µU/ml	46.1	36.9	55.3	Tosoh Series
	ng/ml	15.4	12.3	18.5	
	µU/ml	42.6	34.1	51.1	Roche Cobas 4000/E411
	ng/ml	14.2	11.4	17.0	
	µU/ml	56.1	44.9	67.3	SNIBE Maglumi Analysers
	ng/ml	18.7	15.0	22.4	
	µU/ml	41.5	33.2	49.8	Roche Cobas e601/602
	ng/ml	13.8	11.1	16.5	
µU/ml	35.8	28.6	43.0	Diasorin Liaison XL	
ng/ml	11.9	9.52	14.3		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	µU/ml	43.1	34.5	51.7	Roche Cobas e402/e801
	ng/ml	14.4	11.5	17.3	
	µU/ml	37.3	29.8	44.8	Tosoh AIA-CL Series
	ng/ml	12.4	9.92	14.9	
Immunoglobulin E	KIU/I = IU/ml	424	339	509	Abbott Architect
	KIU/I = IU/ml	444	355	533	BioMerieux Vidas
	KIU/I = IU/ml	503	402	604	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	485	388	582	Siemens Immulite 2000/2500
	KIU/I = IU/ml	494	395	593	Siemens Immulite 1000
	KIU/I = IU/ml	514	411	617	Roche Elecsys
	KIU/I = IU/ml	469	375	563	Pharmacia Unicap
	KIU/I = IU/ml	463	370	556	Tosoh Series
	KIU/I = IU/ml	514	411	617	Roche Cobas 4000/E411
	KIU/I = IU/ml	504	403	605	Roche Cobas e601/602
	KIU/I = IU/ml	414	331	497	SNIBE Maglumi Analysers
	KIU/I = IU/ml	647	518	776	Agappe Mispa i2
	KIU/I = IU/ml	500	400	600	Siemens Atellica IM
	KIU/I = IU/ml	503	402	604	Roche Cobas e402/e801
KIU/I = IU/ml	413	330	496	Abbott Alinity	
Insulin	mU/l	30.3	22.7	37.9	Siemens Centaur XP/XPT/Classic
	µU/ml	30.3	22.7	37.9	
	mU/l	8.38	6.29	10.5	Siemens Immulite 1000
	µU/ml	8.38	6.29	10.5	
	mU/l	30.3	22.7	37.9	Roche Elecsys
	µU/ml	30.3	22.7	37.9	
	mU/l	24.8	18.6	31.0	Beckman Access
	µU/ml	24.8	18.6	31.0	
	mU/l	22.8	17.1	28.5	Abbott Architect
	µU/ml	22.8	17.1	28.5	
	mU/l	29.3	22.0	36.6	Tosoh Series
	µU/ml	29.3	22.0	36.6	
	mU/l	30.7	23.0	38.4	Roche Cobas 4000/E411
	µU/ml	30.7	23.0	38.4	
	mU/l	24.9	18.7	31.1	Beckman Dxl 600/800
	µU/ml	24.9	18.7	31.1	
	mU/l	30.2	22.7	37.8	Roche Cobas 6000/8000
	µU/ml	30.2	22.7	37.7	
	mU/l	24.8	18.6	31.0	SNIBE Maglumi Analysers
	µU/ml	24.8	18.6	31.0	
	mU/l	30.5	22.9	38.1	Mindray CL Series
	µU/ml	30.5	22.9	38.1	
	mU/l	34.3	25.7	42.9	Diasorin Liaison XL
µU/ml	34.3	25.7	42.9		
mU/l	29.4	22.1	36.8	Siemens Atellica IM	
µU/ml	29.4	22.1	36.7		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Range					
Analyte	unit	Target	low	high	methods
Insulin	mU/l	21.4	16.1	26.8	Abbott Alinity i
	µU/ml	21.4	16.1	26.7	
	mU/l	30.3	22.7	37.9	Tosoh AIA-CL Series
	µU/ml	30.3	22.7	37.9	
Luteinising Hormone (LH)	mU/ml	40.2	32.2	48.2	Abbott Architect
	mU/ml	48.2	38.6	57.8	BioMerieux Vidas
	mU/ml	47.3	37.8	56.8	Siemens Centaur XP/XPT/Classic
	mU/ml	66.1	52.9	79.3	Siemens Immulite 2000
	mU/ml	75.3	60.2	90.4	Siemens Immulite 1000
	mU/ml	41.7	33.4	50.0	Beckman DxI800
	mU/ml	53.6	42.9	64.3	Roche Elecsys
	mU/ml	41.6	33.3	49.9	Beckman Access
	mU/ml	46.5	37.2	55.8	Tosoh Series
	mU/ml	63.2	50.6	75.8	Vitros ECi
	mU/ml	53.5	42.8	64.2	Roche Cobas 4000/E411
	mU/ml	53.3	42.6	64.0	Roche Cobas e601/602
	mU/ml	75.2	60.2	90.2	SNIBE Maglumi Analysers
	mU/ml	47.2	37.8	56.6	Siemens Centaur CP
	mU/ml	57.2	45.8	68.6	Mindray CL 8000i/6000i/2000i/1200i/1000i
	mU/ml	62.3	49.8	74.8	Diasorin Liaison XL
	mU/ml	49.0	39.2	58.8	Siemens Atellica IM
	mU/ml	40.2	32.2	48.2	Abbott Alinity i
	mU/ml	53.6	42.9	64.3	Roche Cobas e402/e801
	Oestradiol	pmol/l	1135	908	1362
pg/ml		309	247	371	
pmol/l		2972	2378	3566	BioMerieux Vidas
pg/ml		808	647	969	
pmol/l		2199	1759	2639	Siemens Centaur XP/XPT/Classic
pg/ml		598	478	718	
pmol/l		2134	1707	2561	Siemens Immulite 2000/2500
pg/ml		580	464	696	
pmol/l		2060	1648	2472	Siemens Immulite 1000
pg/ml		560	448	672	
pmol/l		1190	952	1428	Beckman DxI800
pg/ml		324	259	389	
pmol/l		1310	1048	1572	Roche Elecsys (Estradiol II)
pg/ml		356	285	427	
pmol/l		1316	1053	1579	Beckman Access
pg/ml		358	286	430	
pmol/l		1653	1322	1984	Tosoh (E2)
pg/ml		450	360	540	
pmol/l		2764	2211	3317	Vitros ECi
pg/ml		752	601	903	
pmol/l	1320	1056	1584	Roche Cobas e601/602 (Estradiol II)	
pg/ml	359	287	431		
pmol/l	1299	1039	1559	Roche Cobas 4000/E411 (Estradiol II)	
pg/ml	353	283	423		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	2220	1776	2664	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	604	483	725	
	pmol/l	3222	2578	3866	SNIBE Maglumi Analysers
	pg/ml	876	701	1051	
	pmol/l	1706	1365	2047	Tosoh (iE2-hsE2)
	pg/ml	464	371	557	
	pmol/l	2142	1714	2570	Siemens Centaur CP Enhanced (eE2)
	pg/ml	583	466	700	
	pmol/l	1328	1062	1594	Roche Cobas e601/602 (Estradiol III)
	pg/ml	361	289	433	
	pmol/l	1282	1026	1538	Roche Elecsys (Estradiol III)
	pg/ml	349	279	419	
	pmol/l	1310	1048	1572	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	356	285	427	
	pmol/l	1824	1459	2189	Mindray CL Series
	pg/ml	496	397	595	
	pmol/l	942	754	1130	Diasorin Liaison XL
	pg/ml	256	205	307	
	pmol/l	1330	1064	1596	Beckman Access / Access 2 Sensitive B84493
	pg/ml	362	289	435	
pmol/l	1193	954	1432	Beckman Dxl600/800 Sensitive B84493	
pg/ml	324	259	389		
pmol/l	2342	1874	2810	Siemens Atellica IM	
pg/ml	637	510	764		
pmol/l	1099	879	1319	Abbott Alinity i	
pg/ml	299	239	359		
pmol/l	1335	1068	1602	Roche Cobas e801 (Estradiol III)	
pg/ml	363	290	436		
pmol/l	1527	1222	1832	Tosoh AIA-CL Series	
pg/ml	415	332	498		
Paracetamol	mmol/l	0.490	0.392	0.588	Roche Cobas c501/502/503/701/702
	mg/l	74.1	59.3	88.9	
	mmol/l	0.500	0.400	0.600	Beckman AU Instruments
	mg/l	75.7	60.5	90.9	
	mmol/l	0.530	0.424	0.636	EMIT
	mg/l	80.2	64.2	96.2	
	mmol/l	0.510	0.408	0.612	Abbott Alinity
	mg/l	77.2	61.7	92.7	
mmol/l	0.500	0.400	0.600	Siemens Atellica CH	
mg/l	75.7	60.5	90.9		
mmol/l	0.529	0.420	0.630	Gravimetric	
mg/l	80.0	63.5	95.3		
Phenobarbital	µmol/l	127	102	152	Abbott Architect (CMIA)
	µg/ml	29.5	23.7	35.3	
	µmol/l	121	96.8	145	Roche Cobas e601/602/801
	µg/ml	28.1	22.5	33.7	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Phenobarbital	µmol/l	117	93.6	140	Beckman AU400/600/640/2700/5400
	µg/ml	27.1	21.7	32.5	
	µmol/l	166	133	199	Siemens Centaur XP/XPT/Classic
	µg/ml	38.5	30.9	46.1	
	µmol/l	115	92.0	138	Roche Integra
	µg/ml	26.7	21.3	32.1	
	µmol/l	120	96.0	144	Roche Cobas C303/501/502/503/701
	µg/ml	27.8	22.3	33.3	
	µmol/l	111	88.8	133	Microgenics CEDIA assay
	µg/ml	25.8	20.6	31.0	
	µmol/l	126	101	151	Siemens Atellica CH
	µg/ml	29.2	23.4	35.0	
	µmol/l	112	89.6	134	Abbott Alinity (PETINA)
	µg/ml	26.0	20.8	31.2	
µmol/l	121	96.8	145	Gravimetric	
µg/ml	28.1	22.5	33.6		
Phenytoin	µmol/l	89.8	71.8	108	Abbott Architect
	µg/ml	22.7	18.1	27.3	
	µmol/l	120	96.0	144	Siemens Centaur XP/XPT/Classic
	µg/ml	30.3	24.2	36.4	
	µmol/l	100	80.0	120	Siemens Dimension
	µg/ml	25.3	20.2	30.4	
	µmol/l	97.6	78.1	117	Siemens Immulite 2000/2500
	µg/ml	24.6	19.7	29.5	
	µmol/l	93.9	75.1	113	Roche Integra
	µg/ml	23.7	19.0	28.4	
	µmol/l	99.0	79.2	119	Vitros
	µg/ml	25.0	20.0	30.0	
	µmol/l	93.8	75.0	113	Roche Cobas 6000/8000
	µg/ml	23.7	18.9	28.5	
	µmol/l	97.3	77.8	117	Beckman AU Instruments
	µg/ml	24.6	19.6	29.6	
	µmol/l	100	80.0	120	EMIT
	µg/ml	25.3	20.2	30.4	
µmol/l	106	84.8	127	Siemens Atellica CH	
µg/ml	26.8	21.4	32.2		
µmol/l	99.0	79.2	119	Abbott Alinity	
µg/ml	25.0	20.0	30.0		
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	
Progesterone	nmol/l	99.0	79.2	119	Abbott Architect
	ng/ml	31.0	24.8	37.2	
	nmol/l	126	101	151	BioMerieux Vidas
ng/ml	39.4	31.6	47.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	78.1	62.5	93.7	Siemens Centaur XP/XPT/Classic
	ng/ml	24.4	19.6	29.2	
	nmol/l	80.7	64.6	96.8	Siemens Immulite 2000/2500
	ng/ml	25.3	20.2	30.4	
	nmol/l	86.5	69.2	104	Siemens Immulite 1000
	ng/ml	27.1	21.7	32.5	
	nmol/l	96.9	77.5	116	Beckman Dxl Prog Cal 33555
	ng/ml	30.3	24.3	36.3	
	nmol/l	106	84.8	127	Roche Elecsys (Prog. II)
	ng/ml	33.2	26.5	39.9	
	nmol/l	96.7	77.4	116	Beckman Access Prog Cal 33555
	ng/ml	30.3	24.2	36.4	
	nmol/l	114	91.2	137	Tosoh Series
	ng/ml	35.7	28.5	42.9	
	nmol/l	112	89.6	134	Vitros Eci
	ng/ml	35.1	28.0	42.2	
	nmol/l	106	84.8	127	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	33.2	26.5	39.9	
	nmol/l	106	84.8	127	Roche Cobas e601/602 (Prog. II)
	ng/ml	33.2	26.5	39.9	
	nmol/l	80.8	64.6	97.0	SNIBE Maglumi Analysers
	ng/ml	25.3	20.2	30.4	
	nmol/l	90.2	72.2	108	Beckman Dxl Prog DE Cal A80773
	ng/ml	28.2	22.6	33.8	
	nmol/l	96.1	76.9	115	Beckman Access Prog DE Cal A80773
	ng/ml	30.1	24.1	36.1	
	nmol/l	76.6	61.3	91.9	Siemens Centaur CP
	ng/ml	24.0	19.2	28.8	
	nmol/l	137	110	164	Mindray CL 8000i/6000i/2000i/1200i/1000i
	ng/ml	42.9	34.4	51.4	
	nmol/l	105	84.0	126	Roche Cobas e601/602 (Prog. III)
	ng/ml	32.9	26.3	39.5	
nmol/l	105	84.0	126	Roche Elecsys (Prog. III)	
ng/ml	32.9	26.3	39.5		
nmol/l	107	85.6	128	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	33.5	26.8	40.2		
nmol/l	87.8	70.2	105	Diasorin Liaison XL	
ng/ml	27.5	22.0	33.0		
nmol/l	91.5	73.2	110	Abbott Alinity i	
ng/ml	28.6	22.9	34.3		
nmol/l	83.5	66.8	100	Siemens Atellica IM	
ng/ml	26.1	20.9	31.3		
nmol/l	106	84.8	127	Roche Cobas e801 (Prog. III)	
ng/ml	33.2	26.5	39.9		
nmol/l	114	91.2	137	Tosoh AIA-CL Series	
ng/ml	35.7	28.5	42.9		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	1005	804	1206	Abbott Architect
	µU/ml	1086	869	1303	BioMerieux Vidas
	µU/ml	819	655	983	Siemens Centaur XP/XPT/Classic
	µU/ml	920	736	1104	Siemens Immulite 2000/2500
	µU/ml	985	788	1182	Siemens Immulite 1000
	µU/ml	850	680	1020	Beckman Dxl800
	µU/ml	1234	987	1481	Roche Elecsys
	µU/ml	1081	865	1297	Diasorin Liaison
	µU/ml	874	699	1049	Beckman Access
	µU/ml	1014	811	1217	Tosoh Series
	µU/ml	841	673	1009	Vitros ECi
	µU/ml	1225	980	1470	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1057	846	1268	Immunotech IRMA
	µU/ml	1259	1007	1511	Roche Cobas 4000/E411
	µU/ml	1205	964	1446	Roche Cobas e601/602
	µU/ml	1105	884	1326	SNIBE Maglumi Analysers
	µU/ml	829	663	995	Siemens Centaur CP
	µU/ml	1128	902	1354	Mindray CL 8000i/6000i/2000i/1200i/1000i
	µU/ml	1115	892	1338	Diasorin Liaison XL
	µU/ml	795	636	954	Siemens Atellica IM
µU/ml	1048	838	1258	Abbott Alinity i	
µU/ml	1172	938	1406	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	20.5	15.4	25.6	Abbott Architect
	ng/ml = µg/l	22.3	16.7	27.9	BioMerieux Vidas
	ng/ml = µg/l	18.2	13.7	22.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	15.2	11.4	19.0	Siemens Dimension
	ng/ml = µg/l	15.8	11.9	19.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	22.1	16.6	27.6	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	16.8	12.6	21.0	Roche Elecsys
	ng/ml = µg/l	21.2	15.9	26.5	Beckman Access standardised to Hybritech
	ng/ml = µg/l	15.8	11.9	19.8	Tosoh Series
	ng/ml = µg/l	16.2	12.2	20.3	Roche Cobas 4000/E411
	ng/ml = µg/l	16.2	12.2	20.3	Roche Cobas e601/602
	ng/ml = µg/l	15.9	11.9	19.9	SNIBE Maglumi Analysers
	ng/ml = µg/l	15.1	11.3	18.9	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	16.8	12.6	21.0	Diasorin Liaison XL
	ng/ml = µg/l	18.9	14.2	23.6	Siemens Atellica IM
	ng/ml = µg/l	19.6	14.7	24.5	Abbott Alinity i
	ng/ml = µg/l	15.4	11.6	19.3	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	15.7	11.8	19.6	Abbott Architect
	ng/ml = µg/l	18.9	14.2	23.6	BioMerieux Vidas
	ng/ml = µg/l	19.2	14.4	24.0	bioMerieux VIDAS TPSA
	ng/ml = µg/l	20.2	15.2	25.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	16.4	12.3	20.5	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	18.1	13.6	22.6	Siemens Immulite 1000 1st generation

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	23.1	17.3	28.9	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	17.8	13.4	22.3	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	20.9	15.7	26.1	Roche Elecsys
	ng/ml = µg/l	18.5	13.9	23.1	Diasorin Liaison
	ng/ml = µg/l	23.8	17.9	29.8	Beckman Access standardised to Hybritech
	ng/ml = µg/l	23.6	17.7	29.5	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	13.9	10.4	17.4	Tosoh Series
	ng/ml = µg/l	21.2	15.9	26.5	Vitros ECi
	ng/ml = µg/l	16.0	12.0	20.0	Immunotech IRMA
	ng/ml = µg/l	21.6	16.2	27.0	Roche Cobas 4000/E411
	ng/ml = µg/l	21.4	16.1	26.8	Roche Cobas e601/602
	ng/ml = µg/l	37.7	28.3	47.1	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	17.5	13.1	21.9	SNIBE Maglumi Analysers
	ng/ml = µg/l	21.4	16.1	26.8	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	19.9	14.9	24.9	Siemens Centaur CP
	ng/ml = µg/l	21.7	16.3	27.1	Diasorin Liaison XL
	ng/ml = µg/l	19.8	14.9	24.8	Siemens Atellica IM
ng/ml = µg/l	15.8	11.9	19.8	Abbott Alinity i	
ng/ml = µg/l	20.5	15.4	25.6	Roche Cobas e402/e801	
Salicylic Acid	mmol/l	2.88	2.30	3.46	Roche Cobas c501/502/503
	mg/dl	39.8	31.8	47.8	
	mmol/l	2.85	2.28	3.42	EMIT
	mg/dl	39.4	31.5	47.3	
	mmol/l	2.88	2.30	3.46	Gravimetric
mg/dl	39.8	31.8	47.8		
SHBG	nmol/l	39.3	31.4	47.2	Siemens Immulite 2000/2500
	nmol/l	40.0	32.0	48.0	Abbott Architect
	nmol/l	35.7	28.6	42.8	Beckman Access
	nmol/l	40.3	32.2	48.4	Beckman Dxl800
	nmol/l	47.6	38.1	57.1	SNIBE Maglumi Analysers
	nmol/l	41.4	33.1	49.7	Siemens Atellica IM
	nmol/l	38.3	30.6	46.0	Roche analysers - 413417/15
	nmol/l	37.0	29.6	44.4	Roche Cobas e801 - 413429
	nmol/l	41.2	33.0	49.4	Abbott Alinity i
T Uptake	%U	36.9	30.3	43.5	Siemens Immulite 2000
Testosterone	nmol/l	28.3	22.6	34.0	Abbott Architect
	ng/ml	8.15	6.51	9.79	
	ng/dl	815	651	979	
	nmol/l	25.4	20.3	30.5	BioMerieux Vidas
	ng/ml	7.32	5.85	8.79	
	ng/dl	732	585	879	
	nmol/l	24.5	19.6	29.4	Siemens Centaur XP/XPT/Classic
	ng/ml	7.06	5.64	8.48	
	ng/dl	706	564	848	
	nmol/l	33.8	27.0	40.6	Siemens Immulite 2000/2500
ng/ml	9.73	7.78	11.7		
ng/dl	973	778	1168		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	23.5	18.8	28.2	Beckman DxI800
	ng/ml	6.77	5.41	8.13	
	ng/dl	677	541	813	
	nmol/l	25.4	20.3	30.5	Beckman Access
	ng/ml	7.32	5.85	8.79	
	ng/dl	732	585	879	
	nmol/l	38.7	31.0	46.4	Tosoh Series
	ng/ml	11.1	8.93	13.3	
	ng/dl	1115	893	1337	
	nmol/l	38.3	30.6	46.0	Vitros ECI
	ng/ml	11.0	8.81	13.2	
	ng/dl	1103	881	1325	
	nmol/l	28.2	22.6	33.8	Roche Cobas e601/602 Test II
	ng/ml	8.12	6.51	9.73	
	ng/dl	812	651	973	
	nmol/l	28.1	22.5	33.7	Roche Elecsys Test II
	ng/ml	8.09	6.48	9.70	
	ng/dl	809	648	970	
	nmol/l	27.9	22.3	33.5	Roche Cobas 4000/e411 Test II
	ng/ml	8.04	6.42	9.66	
	ng/dl	804	642	966	
	nmol/l	24.3	19.4	29.2	Immunotech RIA
	ng/ml	7.00	5.59	8.41	
	ng/dl	700	559	841	
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	25.0	20.0	30.0	BioMerieux Vidas Testosterone II	
ng/ml	7.20	5.76	8.64		
ng/dl	720	576	864		
nmol/l	41.1	32.9	49.3	Mindray CL 8000i/6000i/2000i/1200i/1000i	
ng/ml	11.8	9.48	14.1		
ng/dl	1184	948	1420		
nmol/l	24.2	19.4	29.0	Siemens Centaur TST II	
ng/ml	6.97	5.59	8.35		
ng/dl	697	559	835		
nmol/l	24.6	19.7	29.5	Siemens Atellica IM	
ng/ml	7.08	5.67	8.49		
ng/dl	708	567	849		
nmol/l	27.9	22.3	33.5	Roche Cobas e801 Test II	
ng/ml	8.04	6.42	9.66		
ng/dl	804	642	966		
nmol/l	36.6	29.3	43.9	Tosoh AIA-CL Series	
ng/ml	10.5	8.44	12.6		
ng/dl	1054	844	1264		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	28.7	23.0	34.4	Abbott Alinity i
	ng/ml	8.27	6.62	9.92	
	ng/dl	827	662	992	
Theophylline	µmol/l	169	135	203	Roche Integra
	µg/ml	30.5	24.3	36.7	
	µmol/l	157	126	188	Abbott Architect (CMIA)
	µg/ml	28.3	22.7	33.9	
	µmol/l	155	124	186	Roche Cobas 6000/8000
	µg/ml	27.9	22.3	33.5	
	µmol/l	154	123	185	Beckman AU400/600/640/2700/5400
	µg/ml	27.8	22.2	33.4	
	µg/ml	157	126	188	Abbott Alinity Enzyme-Immu
Thyroglobulin	ng/ml	28.6	21.5	35.8	Siemens Immulite 1000
	ng/ml	27.0	20.3	33.8	Siemens Immulite 2000
	ng/ml	58.4	43.8	73.0	Roche Elecsys
	ng/ml	48.6	36.5	60.8	Beckman DxI800
	ng/ml	59.2	44.4	74.0	Roche Cobas 4000/E411
	ng/ml	59.5	44.6	74.4	Roche Cobas e601/602
	ng/ml	50.5	37.9	63.1	Beckman Access
	ng/ml	60.9	45.7	76.1	Abbott Architect 2000i
	ng/ml	4.32	3.24	5.40	SNIBE Maglumi Analysers
	ng/ml	56.4	42.3	70.5	Tosoh Series
	ng/ml	59.8	44.9	74.8	Roche Cobas e601/602 Tg II
	ng/ml	61.6	46.2	77.0	Roche Elecsys TGII
	ng/ml	59.3	44.5	74.1	Roche Cobas 4000/E411 TGII
	ng/ml	74.5	55.9	93.1	Diasorin Liaison XL
	ng/ml	57.8	43.4	72.3	Roche Cobas e801 Tg II
	ng/ml	69.3	52.0	86.6	DiaSorin Liaison TG II Gen
	Thyroid Stimulating Hormone	µU/ml = mIU/l	16.7	13.4	20.0
µU/ml = mIU/l		15.1	12.1	18.1	bioMerieux VIDAS TSH
µU/ml = mIU/l		12.2	9.76	14.6	bioMerieux VIDAS TSH3 Ultrasensitive
µU/ml = mIU/l		20.8	16.6	25.0	Siemens Centaur XP/XPT/Classic
µU/ml = mIU/l		20.4	16.3	24.5	Siemens Centaur XP/XPT/Classic 3rd Generation
µU/ml = mIU/l		17.4	13.9	20.9	Siemens Immulite 2000/2500
µU/ml = mIU/l		18.8	15.0	22.6	Siemens Immulite 1000
µU/ml = mIU/l		16.7	13.4	20.0	Beckman DxI800 Fast TSH
µU/ml = mIU/l		17.5	14.0	21.0	Beckman DxI800
µU/ml = mIU/l		19.0	15.2	22.8	Roche Elecsys
µU/ml = mIU/l		32.5	26.0	39.0	Diasorin Liaison
µU/ml = mIU/l		19.1	15.3	22.9	Beckman Access Fast TSH
µU/ml = mIU/l		18.1	14.5	21.7	Beckman Access hyperTSH 3rd Generation

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	μU/ml = mIU/l	22.5	18.0	27.0	Tosoh Series
	μU/ml = mIU/l	23.5	18.8	28.2	Vitros ECI
	μU/ml = mIU/l	17.3	13.8	20.8	Immuntotech IRMA
	μU/ml = mIU/l	19.1	15.3	22.9	Roche Cobas 4000/E411
	μU/ml = mIU/l	19.0	15.2	22.8	Roche Cobas e601/602
	μU/ml = mIU/l	17.6	14.1	21.1	Beckman Dxl800 Hyper TSH
	μU/ml = mIU/l	13.3	10.6	16.0	SNIBE Maglumi Analysers
	μU/ml = mIU/l	20.5	16.4	24.6	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	μU/ml = mIU/l	16.0	12.8	19.2	Siemens Dimension Exl LOCI
	μU/ml = mIU/l	19.9	15.9	23.9	Siemens Centaur CP
	μU/ml = mIU/l	19.5	15.6	23.4	Siemens Centaur CP TSH3-Ultra
	μU/ml = mIU/l	23.6	18.9	28.3	Mindray CL 8000i/6000i/2000i/1200i/1000i
	μU/ml = mIU/l	17.8	14.2	21.4	Beckman Dxl 600/800 Access (3rd IS)
	μU/ml = mIU/l	32.8	26.2	39.4	Diasorin Liaison XL
	μU/ml = mIU/l	20.2	16.2	24.2	Siemens Atellica IM
μU/ml = mIU/l	16.2	13.0	19.4	Abbott Alinity i	
μU/ml = mIU/l	17.7	14.2	21.2	Roche Cobas e402/e801	
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	230	184	276	Abbott Architect
	IU/ml	0.230	0.184	0.276	
	mU/ml=IU/l	439	351	527	BioMerieux Vidas
	IU/ml	0.439	0.351	0.527	
	mU/ml=IU/l	207	166	248	Siemens Centaur XP/XPT/Classic
	IU/ml	0.207	0.166	0.248	
	mU/ml=IU/l	425	340	510	Siemens Dimension
	IU/ml	0.425	0.340	0.510	
	mU/ml=IU/l	489	391	587	Siemens Immulite 2000
	IU/ml	0.489	0.391	0.587	
	mU/ml=IU/l	503	402	604	Siemens Immulite 1000
	IU/ml	0.503	0.402	0.604	
	mU/ml=IU/l	243	194	292	Beckman Dxl800
	IU/ml	0.243	0.194	0.292	
	mU/ml=IU/l	259	207	311	Roche Cobas Core EIA
	IU/ml	0.259	0.207	0.311	
	mU/ml=IU/l	235	188	282	Beckman Access
	IU/ml	0.235	0.188	0.282	
	mU/ml=IU/l	434	347	521	Tosoh Series
	IU/ml	0.434	0.347	0.521	
mU/ml=IU/l	424	339	509	Vitros ECI	
IU/ml	0.424	0.339	0.509		
mU/ml=IU/l	209	167	251	Roche hCG STAT (Intact)	
IU/ml	0.209	0.167	0.251		
mU/ml=IU/l	273	218	328	Roche hCG+Beta	
IU/ml	0.273	0.218	0.328		
mU/ml=IU/l	455	364	546	SNIBE Maglumi Analysers	
IU/ml	0.455	0.364	0.546		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	235	188	282	Beckman Access Total BhCG (5th IS)
	IU/ml	0.235	0.188	0.282	
	mU/ml=IU/l	239	191	287	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.239	0.191	0.287	
	mU/ml=IU/l	204	163	245	Siemens Centaur CP
	IU/ml	0.204	0.163	0.245	
	mU/ml=IU/l	177	142	212	Mindray CL Series
	IU/ml	0.177	0.142	0.212	
	mU/ml=IU/l	232	186	278	Diasorin Liaison XL
	IU/ml	0.232	0.186	0.278	
	mU/ml=IU/l	212	170	254	Siemens Atellica IM
	IU/ml	0.212	0.170	0.254	
	mU/ml=IU/l	231	185	277	Abbott Alinity i
	IU/ml	0.231	0.185	0.277	
mU/ml=IU/l	266	213	319	Roche hCG+Beta e801	
IU/ml	0.266	0.213	0.319		
mU/ml=IU/l	543	434	652	Tosoh AIA-CL Series	
IU/ml	0.543	0.434	0.652		
Total T3	nmol/l	5.12	3.84	6.40	Abbott Architect
	ng/ml	3.33	2.50	4.16	
	ng/dl	333	250	416	
	nmol/l	5.68	4.26	7.10	BioMerieux Vidas
	ng/ml	3.70	2.77	4.63	
	ng/dl	370	277	463	
	nmol/l	6.45	4.84	8.06	Siemens Centaur XP/XPT/Classic
	ng/ml	4.20	3.15	5.25	
	ng/dl	420	315	525	
	nmol/l	5.79	4.34	7.24	Siemens Immulite 2000/2500
	ng/ml	3.77	2.83	4.71	
	ng/dl	377	283	471	
	nmol/l	5.69	4.27	7.11	Beckman Dxl800
	ng/ml	3.70	2.78	4.62	
	ng/dl	370	278	462	
	nmol/l	5.99	4.49	7.49	Roche Elecsys
	ng/ml	3.90	2.92	4.88	
	ng/dl	390	292	488	
	nmol/l	5.71	4.28	7.14	Beckman Access
	ng/ml	3.72	2.79	4.65	
	ng/dl	372	279	465	
	nmol/l	5.49	4.12	6.86	Tosoh Series
	ng/ml	3.57	2.68	4.46	
	ng/dl	357	268	446	
nmol/l	6.78	5.09	8.48	Vitros ECi	
ng/ml	4.41	3.31	5.51		
ng/dl	441	331	551		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	6.04	4.53	7.55	Roche Cobas 4000/E411
	ng/ml	3.93	2.95	4.91	
	ng/dl	393	295	491	
	nmol/l	4.87	3.65	6.09	Immunotech RIA
	ng/ml	3.17	2.38	3.96	
	ng/dl	317	238	396	
	nmol/l	5.96	4.47	7.45	Roche Cobas e601/602
	ng/ml	3.88	2.91	4.85	
	ng/dl	388	291	485	
	nmol/l	4.98	3.74	6.23	SNIBE Maglumi Analysers
	ng/ml	3.24	2.43	4.05	
	ng/dl	324	243	405	
	nmol/l	6.72	5.04	8.40	Siemens Centaur CP
	ng/ml	4.37	3.28	5.46	
	ng/dl	437	328	546	
	nmol/l	4.77	3.58	5.96	Mindray CL Series
	ng/ml	3.11	2.33	3.89	
	ng/dl	311	233	389	
	nmol/l	4.75	3.56	5.94	Diasorin Liaison XL
	ng/ml	3.09	2.32	3.86	
	ng/dl	309	232	386	
nmol/l	5.20	3.90	6.50	Abbott Alinity i	
ng/ml	3.39	2.54	4.24		
ng/dl	339	254	424		
nmol/l	6.63	4.97	8.29	Siemens Atellica IM	
ng/ml	4.32	3.24	5.40		
ng/dl	432	324	540		
nmol/l	6.32	4.74	7.90	Roche Cobas e402/e801	
ng/ml	4.11	3.09	5.13		
ng/dl	411	309	513		
nmol/l	5.84	4.38	7.30	Tosoh AIA-CL Series	
ng/ml	3.80	2.85	4.75		
ng/dl	380	285	475		
Total T4	nmol/l	207	155	259	Abbott Architect
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	217	163	271	BioMerieux Vidas
	µg/dl	16.9	12.7	21.1	
	ng/ml	169	127	211	
	nmol/l	228	171	285	Siemens Centaur XP/XPT/Classic
	µg/dl	17.8	13.3	22.3	
	ng/ml	178	133	223	
	nmol/l	199	149	249	Siemens Immulite 2000/2500
	µg/dl	15.5	11.6	19.4	
	ng/ml	155	116	194	
	nmol/l	226	170	283	Beckman Dxl800
	µg/dl	17.6	13.3	21.9	
	ng/ml	176	133	219	

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	186	140	233	Roche Elecsys
	µg/dl	14.5	10.9	18.1	
	ng/ml	145	109	181	
	nmol/l	234	176	293	Beckman Access
	µg/dl	18.3	13.7	22.9	
	ng/ml	183	137	229	
	nmol/l	192	144	240	Tosoh Series
	µg/dl	15.0	11.2	18.8	
	ng/ml	150	112	188	
	nmol/l	223	167	279	Vitros ECI
	µg/dl	17.4	13.0	21.8	
	ng/ml	174	130	218	
	nmol/l	192	144	240	Roche Cobas 4000/E411
	µg/dl	15.0	11.2	18.8	
	ng/ml	150	112	188	
	nmol/l	185	139	231	Roche Cobas e601/602
	µg/dl	14.4	10.8	18.0	
	ng/ml	144	108	180	
	nmol/l	160	120	200	Immunotech IRMA
	µg/dl	12.5	9.36	15.6	
	ng/ml	125	93.6	156	
	nmol/l	207	155	259	SNIBE Maglumi Analysers
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	235	176	294	Siemens Centaur CP
	µg/dl	18.3	13.7	22.9	
	ng/ml	183	137	229	
nmol/l	231	173	289	Mindray CL Series	
µg/dl	18.0	13.5	22.5		
ng/ml	180	135	225		
nmol/l	205	154	256	Diasorin Liaison XL	
µg/dl	16.0	12.0	20.0		
ng/ml	160	120	200		
nmol/l	202	152	253	Abbott Alinity i	
µg/dl	15.8	11.9	19.7		
ng/ml	158	119	197		
nmol/l	238	179	298	Siemens Atellica IM	
µg/dl	18.6	14.0	23.2		
ng/ml	186	140	232		
nmol/l	179	134	224	Roche Cobas e402/e801	
µg/dl	14.0	10.5	17.5		
ng/ml	140	105	175		
nmol/l	240	180	300	Tosoh AIA-CL Series	
µg/dl	18.7	14.0	23.4		
ng/ml	187	140	234		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	902	722	1082	Abbott Architect (CMIA)
	µg/ml	130	104	156	
	µmol/l	974	779	1169	Siemens Centaur XP/XPT/Classic
	µg/ml	141	112	170	
	µmol/l	845	676	1014	Siemens Dimension
	µg/ml	122	97.5	147	
	µmol/l	970	776	1164	Siemens Immulite 2000/2500
	µg/ml	140	112	168	
	µmol/l	1101	881	1321	Siemens Immulite 1000
	µg/ml	159	127	191	
	µmol/l	931	745	1117	Roche Integra
	µg/ml	134	108	160	
	µmol/l	945	756	1134	Vitros
	µg/ml	136	109	163	
	µmol/l	882	706	1058	Roche Cobas 4000/c311
	µg/ml	127	102	152	
	µmol/l	912	730	1094	Roche Cobas 6000/8000
	µg/ml	132	105	159	
	µmol/l	964	771	1157	Beckman AU400/600/640/2700/5400
	µg/ml	139	111	167	
µmol/l	878	702	1054	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	127	101	153		
µmol/l	907	726	1088	Abbott Architect (PETINA)	
µg/ml	131	105	157		
µmol/l	880	704	1056	Siemens Atellica CH	
µg/ml	127	102	152		
µmol/l	951	761	1141	Abbott Alinity (CMIA)	
µg/ml	137	110	164		
µmol/l	945	756	1134	Abbott Alinity (PETINA)	
µg/ml	136	109	163		
µmol/l	1116	893	1339	Gravimetric	
µg/ml	161	129	193		
Vancomycin	µmol/l	10.4	8.32	12.5	Roche Integra
	µg/ml	15.5	12.4	18.6	
	µmol/l	9.20	7.36	11.0	Ortho Vitros Microslide Systems
	µg/ml	13.7	10.9	16.5	
	µmol/l	12.1	9.68	14.5	Abbott Architect (CMIA)
	µg/ml	18.0	14.4	21.6	
	µmol/l	9.82	7.86	11.8	Siemens Centaur XP/XPT/Classic
	µg/ml	14.6	11.7	17.5	
	µmol/l	11.1	8.88	13.3	Siemens Dimension
	µg/ml	16.5	13.2	19.8	
	µmol/l	10.7	8.56	12.8	Roche Cobas 6000/8000
	µg/ml	15.9	12.7	19.1	
µmol/l	10.0	8.00	12.0	Thermo Scientific QMS Vancomycin	
µg/ml	14.9	11.9	17.9		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	11.2	8.96	13.4	Abbott Architect (PETINA)
	µg/ml	16.6	13.3	19.9	
	µmol/l	9.45	7.56	11.3	EMIT
	µg/ml	14.0	11.2	16.8	
	µmol/l	10.6	8.48	12.7	Siemens Atellica CH
	µg/ml	15.7	12.6	18.8	
	µmol/l	10.8	8.64	13.0	Abbott Alinity (CMIA)
	µg/ml	16.0	12.8	19.2	
Vitamin B12	µmol/l	10.9	8.72	13.1	Abbott Alinity (PETINA)
	µg/ml	16.2	13.0	19.4	
	µmol/l	10.8	8.64	13.0	Gravimetric
	µg/ml	16.0	12.8	19.3	
	pmol/l	663	530	796	Abbott Architect
	pg/ml	898	718	1078	
	pmol/l	772	618	926	Siemens Centaur XP/XPT/Classic
	pg/ml	1046	837	1255	
	pmol/l	669	535	803	Siemens Immulite 2000
	pg/ml	906	725	1087	
	pmol/l	605	484	726	Beckman DxI800
	pg/ml	820	656	984	
	pmol/l	747	598	896	Roche Elecsys
	pg/ml	1012	810	1214	
	pmol/l	617	494	740	Beckman Access
	pg/ml	836	669	1003	
	pmol/l	909	727	1091	Tosoh Series
	pg/ml	1232	985	1479	
	pmol/l	581	465	697	Vitros ECi
	pg/ml	787	630	944	
pmol/l	679	543	815	Siemens Dimension	
pg/ml	920	736	1104		
pmol/l	681	545	817	SNIBE Maglumi Analysers	
pg/ml	923	738	1108		
pmol/l	863	690	1036	Siemens Centaur CP	
pg/ml	1169	935	1403		
pmol/l	745	596	894	Roche Cobas 4000/e411 Gen II	
pg/ml	1009	808	1210		
pmol/l	759	607	911	Roche Cobas e601/602 Gen II	
pg/ml	1028	822	1234		
pmol/l	1005	804	1206	Mindray CL Series	
pg/ml	1362	1089	1635		
pmol/l	695	556	834	Diasorin Liaison XL	
pg/ml	942	753	1131		
pmol/l	814	651	977	Siemens Atellica IM	
pg/ml	1103	882	1324		
pmol/l	685	548	822	Abbott Alinity i	
pg/ml	928	743	1113		

IMMUNOASSAY PREMIUM PLUS LEVEL 3 (IA PREMIUM PLUS 3)

Cat. No. IA3111 / IA3112 Lot. No. 2231EC Size 12 x 5ml / 4 x 5ml Expiry 2025-11-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	743	594	892	Roche Cobas e801 Gen II
	pg/ml	1007	805	1209	