

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

CAT. NO. IA2640	GTIN: 05055273203868	SIZE 12 x 5 ml
CAT. NO. IA2633	GTIN: 05055273203837	SIZE 4 x 5 ml
LOT NO. 2113EC	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 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 - 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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IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC 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	59.9	44.9	74.9	DIAsource ELISA
	ng/ml	19.8	14.9	24.7	
	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	85.1	63.8	106	Roche Vitamin D Total
	nmol/l	104	78.0	130	Abbott Architect (3L52)
ACTH	nmol/l	105	78.8	131	Vitros ECi
	nmol/l	84.8	63.6	106	Tosoh Series
	nmol/l	100	75.0	125	BioMerieux Vidas
	nmol/l	74.1	55.6	92.6	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	103	77.3	129	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	107	80.3	134	Diasorin Liaison XL
	nmol/l	111	83.3	139	Roche Vitamin D Total II
ACTH	nmol/l	109	81.8	136	Abbott Alinity i
	nmol/l	143	107	179	Siemens Atellica IM
	nmol/l	105	78.8	131	Roche Vitamin D Total II e801
	pmol/l	51.5	38.6	64.4	Siemens Immulite 2000/2500
	pg/ml	234	175	293	
	pmol/l	31.3	23.5	39.1	Roche Cobas 4000/E411
	pg/ml	142	107	177	
	pmol/l	32.9	24.7	41.1	Roche Cobas e601/602
	pg/ml	150	112	188	
	pmol/l	52.0	39.0	65.0	Siemens Immulite 1000
pg/ml	236	177	295		
ACTH	pmol/l	32.6	24.5	40.8	Roche Cobas e402/e801
	pg/ml	148	111	185	

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			low	high	
ACTH	pmol/l	16.7	12.5	20.9	Tosoh AIA-CL Series
	pg/ml	75.9	56.8	95.0	
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	689	517	861	Diasorin Liaison XL	
pg/ml	249	187	311		
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	189	151	227	Siemens Centaur XP/XPT/Classic
	ng/ml	229	183	275	
	KIU/l = IU/ml	173	138	208	Siemens Immulite 2000/2500
	ng/ml	209	167	251	
	KIU/l = IU/ml	184	147	221	Siemens Immulite 1000
	ng/ml	223	178	268	
	KIU/l = IU/ml	158	126	190	Beckman Dxl800
	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	184	147	221	Roche Cobas e601/602
	ng/ml	223	178	268	
	KIU/l = IU/ml	263	210	316	CIS IRMA
	ng/ml	318	254	382	
KIU/l = IU/ml	196	157	235	Roche Cobas 4000/E411	
ng/ml	237	190	284		
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		

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Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	185	148	222	Siemens Centaur CP
	ng/ml	224	179	269	
	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	185	148	222	Siemens Atellica IM
	ng/ml	224	179	269	
KIU/l = IU/ml	162	130	194	Abbott Alinity i	
ng/ml	196	157	235		
Amikacin	KIU/l = IU/ml	177	142	212	Roche Cobas e402/e801
	ng/ml	214	172	256	
	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		
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		
Androstenedione	nmol/l	24.0	18.0	30.0	Beckman Coulter RIA
	ng/ml	6.89	5.17	8.61	
	nmol/l	34.8	26.1	43.5	Siemens Immulite 2000
	ng/ml	9.99	7.49	12.5	
	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		
Beta-2-microglobulin	µg/ml = mg/l	6.95	5.56	8.34	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	5.08	4.06	6.10	Siemens Immulite 2000/2500
	µg/ml = mg/l	6.61	5.29	7.93	Tosoh Series
	µg/ml = mg/l	6.58	5.26	7.90	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	

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Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	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	
	nmol/l	3.230	2.420	4.040	Roche Cobas e601/602
	ng/ml	9.75	7.31	12.2	
	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	3.320	2.490	4.150	Abbott Architect
	ng/ml	10.0	7.52	12.5	
	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	3.320	2.490	4.150	Roche Cobas e402/e801
	ng/ml	10.0	7.52	12.5	
	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		
Carbamazepine	µmol/l	68.2	54.6	81.8	Abbott Architect (CMIA)
	µg/ml	16.1	12.9	19.3	
	µmol/l	71.5	57.2	85.8	Siemens Centaur XP/XPT/Classic
	µg/ml	16.9	13.5	20.3	
	µmol/l	64.9	51.9	77.9	Siemens Dimension
	µg/ml	15.3	12.3	18.3	
	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		

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Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	71.4	57.1	85.7	Roche Cobas 6000/8000
	µg/ml	16.9	13.5	20.3	
	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	58.5	46.8	70.2	Abbott Architect (PETINA)
	µg/ml	13.8	11.1	16.5	
	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	
Carcinoembryonic Antigen (CEA)	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
	ng/ml = µg/l	77.0	61.6	92.4	Abbott Architect
	ng/ml = µg/l	57.1	45.7	68.5	BioMerieux Vidas
	ng/ml = µg/l	56.0	44.8	67.2	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	55.0	44.0	66.0	CIS RIA Coated tube
	ng/ml = µg/l	79.9	63.9	95.9	Siemens Immulite 2000/2500
	ng/ml = µg/l	81.5	65.2	97.8	Siemens Immulite 1000
	ng/ml = µg/l	54.5	43.6	65.4	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	68.8	55.0	82.6	Vitros ECI
	ng/ml = µg/l	51.6	41.3	61.9	Roche Cobas e601/602
	ng/ml = µg/l	52.9	42.3	63.5	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	53.1	42.5	63.7	Siemens Atellica IM
ng/ml = µg/l	53.1	42.5	63.7	Roche Cobas e402/e801	
ng/ml = µg/l	76.1	60.9	91.3	Abbott Alinity i	
Cortisol	nmol/l	855	641	1069	Abbott Architect
	µg/dl	30.8	23.1	38.5	
	nmol/l	1010	758	1263	BioMerieux Vidas
	µg/dl	36.4	27.3	45.5	
	nmol/l	1095	821	1369	Siemens Centaur XP/XPT/Classic
	µg/dl	39.4	29.6	49.2	
	nmol/l	789	592	986	CIS RIA
	µg/dl	28.4	21.3	35.5	
nmol/l	881	661	1101	Siemens Immulite 2000/2500	
µg/dl	31.7	23.8	39.6		

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			low	high	
Cortisol	nmol/l	878	659	1098	Siemens Immulite 1000
	µg/dl	31.6	23.7	39.5	
	nmol/l	972	729	1215	Beckman Dxl800
	µg/dl	35.0	26.2	43.8	
	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	903	677	1129	Vitros ECI
	µg/dl	32.5	24.4	40.6	
	nmol/l	1033	775	1291	Roche Cobas e601/602
	µg/dl	37.2	27.9	46.5	
	nmol/l	1067	800	1334	Roche Cobas 4000/E411
	µg/dl	38.4	28.8	48.0	
	nmol/l	1192	894	1490	Siemens Centaur CP
	µg/dl	42.9	32.2	53.6	
	nmol/l	975	731	1219	Roche Cobas 4000/e411 Gen II
	µg/dl	35.1	26.3	43.9	
nmol/l	918	689	1148	Roche Cobas e601/602 Gen II	
µg/dl	33.0	24.8	41.2		
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	1154	866	1443	Siemens Atellica IM	
µg/dl	41.5	31.2	51.8		
nmol/l	955	716	1194	Roche Cobas e402/e801	
µg/dl	34.4	25.8	43.0		
nmol/l	1092	819	1365	Tosoh AIA-CL Series	
µg/dl	39.3	29.5	49.1		
nmol/l	849	637	1061	Abbott Alinity i	
µg/dl	30.6	22.9	38.3		
nmol/l	941	706	1176	Roche Cobas e801 Gen II	
µg/dl	33.9	25.4	42.3		
DHEA-S	µmol/l	19.4	15.5	23.3	Abbott Architect
	µmol/l	17.0	13.6	20.4	Siemens Immulite 2000/2500
	µmol/l	15.7	12.6	18.8	Siemens Immulite 1000
	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	25.0	20.0	30.0	Roche Cobas 4000/E411

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Analyte	unit	Target	Range		methods
			low	high	
DHEA-S	µmol/l	24.0	19.2	28.8	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	23.1	18.5	27.7	Roche Cobas e402/e801
	µmol/l	19.6	15.7	23.5	Abbott Alinity i
Digoxin	nmol/l	4.07	3.26	4.88	Abbott Architect (CMIA)
	ng/ml	3.18	2.55	3.81	
	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	
Ferritin	ng/ml = µg/l	350	280	420	Abbott Architect
	ng/ml = µg/l	253	202	304	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	272	218	326	Siemens Immulite 2000/2500

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	228	182	274	Siemens Immulite 1000
	ng/ml = µg/l	208	166	250	Beckman Dxl800
	ng/ml = µg/l	324	259	389	Roche Elecsys/Cobas e411
	ng/ml = µg/l	301	241	361	Diasorin Liaison
	ng/ml = µg/l	314	251	377	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	219	175	263	Beckman Access
	ng/ml = µg/l	221	177	265	Tosoh Series
	ng/ml = µg/l	191	153	229	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	305	244	366	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	341	273	409	Abbott Alinity i
	ng/ml = µg/l	227	182	272	Siemens Atellica IM
ng/ml = µg/l	311	249	373	Roche Cobas e402/e801	
Folate	nmol/l	18.0	13.7	22.3	Abbott Architect
	ng/ml	7.94	6.04	9.84	
	nmol/l	40.1	30.5	49.7	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	17.7	13.5	21.9	
	nmol/l	15.1	11.5	18.7	Siemens Immulite 2000
	ng/ml	6.66	5.07	8.25	
	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	13.8	10.5	17.1	Vitros ECI
	ng/ml	6.09	4.63	7.55	
	nmol/l	12.2	9.27	15.1	Siemens Dimension
	ng/ml	5.38	4.09	6.67	
	nmol/l	21.8	16.6	27.0	Beckman Dxl 600 / 800 - A98032
	ng/ml	9.61	7.32	11.9	
	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		
nmol/l	23.1	17.6	28.6	Roche Folate III - 07559992	
ng/ml	10.2	7.76	12.6		
nmol/l	36.3	27.6	45.0	Siemens Atellica IM	
ng/ml	16.0	12.2	19.8		
nmol/l	18.7	14.2	23.2	Abbott Alinity i	
ng/ml	8.25	6.26	10.2		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	23.3	17.7	28.9	Roche Folate 07027290 e801
	ng/ml	10.3	7.81	12.8	
Free T3	pmol/l	20.4	15.3	25.5	Abbott Architect, 2 point calibration
	ng/dl	1.33	0.995	1.67	
	pg/ml	13.3	9.96	16.6	
	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	20.6	15.5	25.8	Siemens Centaur XP/XPT/Classic
	ng/dl	1.34	1.01	1.67	
	pg/ml	13.4	10.1	16.7	
	pmol/l	12.6	9.45	15.8	Siemens Immulite 2000/2500
	ng/dl	0.819	0.614	1.02	
	pg/ml	8.20	6.15	10.3	
	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	15.3	11.5	19.1	Beckman Dxl800
	ng/dl	0.995	0.748	1.24	
	pg/ml	9.96	7.49	12.4	
	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	17.1	12.8	21.4	Beckman Access
	ng/dl	1.11	0.832	1.39	
	pg/ml	11.1	8.33	13.9	
	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	25.8	19.4	32.3	Roche Cobas 4000/E411	
ng/dl	1.68	1.26	2.10		
pg/ml	16.8	12.6	21.0		
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		
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		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	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	22.4	16.8	28.0	Siemens Atellica IM
	ng/dl	1.46	1.09	1.83	
	pg/ml	14.6	10.9	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	20.5	15.4	25.6	Abbott Architect, 6 point calibration
	ng/dl	1.33	1.00	1.66	
	pg/ml	13.3	10.0	16.6	
	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	21.5	16.1	26.9	Abbott Alinity, 6 point cal	
ng/dl	1.40	1.05	1.75		
pg/ml	14.0	10.5	17.5		
Free T4	pmol/l	44.5	33.4	55.6	Abbott Architect
	ng/dl	3.47	2.61	4.33	
	pg/ml	34.7	26.1	43.3	
	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	72.2	54.2	90.3	Siemens Immulite 2000/2500
	ng/dl	5.63	4.23	7.03	
	pg/ml	56.3	42.3	70.3	
	pmol/l	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	
	pmol/l	55.2	41.4	69.0	Beckman Dxl800
	ng/dl	4.31	3.23	5.39	
	pg/ml	43.1	32.3	53.9	
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		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	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	50.3	37.7	62.9	Beckman Access
	ng/dl	3.92	2.94	4.90	
	pg/ml	39.2	29.4	49.0	
	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	65.1	48.8	81.4	Roche Cobas e601/602
	ng/dl	5.08	3.81	6.35	
	pg/ml	50.8	38.1	63.5	
	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	65.6	49.2	82.0	Biomerieux Vidas FT4N Kit
	ng/dl	5.12	3.84	6.40	
	pg/ml	51.2	38.4	64.0	
	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	54.0	40.5	67.5	Mindray CL-2000i	
ng/dl	4.21	3.16	5.26		
pg/ml	42.1	31.6	52.6		
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	48.5	36.4	60.6	Siemens Atellica IM	
ng/dl	3.78	2.84	4.72		
pg/ml	37.8	28.4	47.2		
pmol/l	42.3	31.7	52.9	Abbott Alinity i	
ng/dl	3.30	2.47	4.13		
pg/ml	33.0	24.7	41.3		
pmol/l	65.9	49.4	82.4	Roche Cobas e402/e801	
ng/dl	5.14	3.85	6.43		
pg/ml	51.4	38.5	64.3		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	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	53.8	43.0	64.6	Abbott Architect
	mU/ml	75.6	60.5	90.7	BioMerieux Vidas
	mU/ml	78.7	63.0	94.4	Siemens Centaur XP/XPT/Classic
	mU/ml	60.8	48.6	73.0	Siemens Immulite 2000/2500
	mU/ml	64.4	51.5	77.3	Siemens Immulite 1000
	mU/ml	65.0	52.0	78.0	Beckman DxI800
	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	46.0	36.8	55.2	Vitros ECi
	mU/ml	60.7	48.6	72.8	Roche Cobas 4000/E411
	mU/ml	56.0	44.8	67.2	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	80.4	64.3	96.5	Siemens Atellica IM
	mU/ml	54.6	43.7	65.5	Abbott Alinity i
mU/ml	57.2	45.8	68.6	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		
µmol/l	11.7	9.36	14.0	Gravimetric	
µg/ml	5.59	4.47	6.69		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	μU/ml	49.4	39.5	59.3	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	45.3	36.2	54.4	Roche Cobas e601/602
	ng/ml	15.1	12.1	18.1	
	μU/ml	44.5	35.6	53.4	Diasorin Liaison XL
	ng/ml	14.8	11.9	17.7	
μU/ml	44.2	35.4	53.0	Roche Cobas e402/e801	
ng/ml	14.7	11.8	17.6		
μU/ml	45.0	36.0	54.0	Tosoh AIA-CL Series	
ng/ml	15.0	12.0	18.0		
Immunoglobulin E	KIU/I = IU/ml	587	470	704	Abbott Architect
	KIU/I = IU/ml	641	513	769	BioMerieux Vidas
	KIU/I = IU/ml	632	506	758	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	668	534	802	Siemens Immulite 2000/2500
	KIU/I = IU/ml	675	540	810	Siemens Immulite 1000
	KIU/I = IU/ml	674	539	809	Roche Elecsys
	KIU/I = IU/ml	576	461	691	Pharmacia Unicap
	KIU/I = IU/ml	574	459	689	Tosoh Series
	KIU/I = IU/ml	692	554	830	Roche Cobas 4000/E411
	KIU/I = IU/ml	675	540	810	Roche Cobas e601/602
	KIU/I = IU/ml	685	548	822	Siemens Centaur CP
	KIU/I = IU/ml	685	548	822	Siemens Atellica IM
	KIU/I = IU/ml	652	522	782	Roche Cobas e402/e801
KIU/I = IU/ml	576	461	691	Abbott Alinity	
Insulin	mU/l	20.1	15.1	25.1	Siemens Centaur XP/XPT/Classic
	μU/ml	20.1	15.1	25.1	
	mU/l	8.25	6.19	10.3	Siemens Immulite 1000
	μU/ml	8.25	6.19	10.3	
	mU/l	8.88	6.66	11.1	Siemens Immulite 2000
	μU/ml	8.88	6.66	11.1	
	mU/l	28.6	21.5	35.8	Roche Elecsys
	μU/ml	28.6	21.5	35.7	
mU/l	20.8	15.6	26.0	Beckman Access	
μU/ml	20.8	15.6	26.0		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	19.6	14.7	24.5	Abbott Architect
	µU/ml	19.6	14.7	24.5	
	mU/l	36.6	27.5	45.8	Tosoh Series
	µU/ml	36.6	27.5	45.7	
	mU/l	29.1	21.8	36.4	Roche Cobas 4000/E411
	µU/ml	29.1	21.8	36.4	
	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	27.8	20.9	34.8	Roche Cobas 6000/8000
	µU/ml	27.8	20.9	34.7	
	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	18.4	13.8	23.0	Abbott Alinity i	
µU/ml	18.4	13.8	23.0		
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	43.1	34.5	51.7	Abbott Architect
	mU/ml	47.9	38.3	57.5	BioMerieux Vidas
	mU/ml	50.2	40.2	60.2	Siemens Centaur XP/XPT/Classic
	mU/ml	70.0	56.0	84.0	Siemens Immulite 2000
	mU/ml	80.1	64.1	96.1	Siemens Immulite 1000
	mU/ml	42.6	34.1	51.1	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	60.7	48.6	72.8	Vitros ECi
	mU/ml	57.0	45.6	68.4	Roche Cobas 4000/E411
	mU/ml	55.4	44.3	66.5	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	50.2	40.2	60.2	Siemens Atellica IM
	mU/ml	41.3	33.0	49.6	Abbott Alinity i
mU/ml	55.3	44.2	66.4	Roche Cobas e402/e801	
Oestradiol	pmol/l	1049	839	1259	Abbott Architect
	pg/ml	285	228	342	
	pmol/l	2816	2253	3379	BioMerieux Vidas
	pg/ml	766	613	919	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	2048	1638	2458	Siemens Centaur XP/XPT/Classic
	pg/ml	557	446	668	
	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	1293	1034	1552	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	352	281	423	
	pmol/l	2111	1689	2533	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	574	459	689	
	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	1237	990	1484	Roche Cobas e601/602 (Estradiol III)	
pg/ml	336	269	403		
pmol/l	1229	983	1475	Roche Elecsys (Estradiol III)	
pg/ml	334	267	401		
pmol/l	1249	999	1499	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	340	272	408		
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		
pmol/l	1143	914	1372	Beckman Dxl600/800 Sensitive B84493	
pg/ml	311	249	373		
pmol/l	2211	1769	2653	Siemens Atellica IM	
pg/ml	601	481	721		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Oestradiol	pmol/l	1036	829	1243	Abbott Alinity i	
	pg/ml	282	225	339		
	pmol/l	1237	990	1484	Roche Cobas e801 (Estradiol III)	
	pg/ml	336	269	403		
	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	0.495	0.396	0.594	Roche Cobas c501/502/503/701/702	
	mg/l	74.9	59.9	89.9		
	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		
	mmol/l	0.529	0.420	0.630	Gravimetric	
	mg/l	80.0	63.5	95.3		
Phenobarbital	µmol/l	112	89.6	134	Abbott Architect (CMIA)	
	µg/ml	26.0	20.8	31.2		
	µmol/l	114	91.2	137	Roche Cobas e601/602/801	
	µg/ml	26.4	21.2	31.6		
	µmol/l	119	95.2	143	Siemens Immulite 2000/2500	
	µg/ml	27.6	22.1	33.1		
	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	119	95.2	143	Roche Cobas C303/501/502/503/701	
	µg/ml	27.6	22.1	33.1		
	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		
	µmol/l	121	96.8	145	Gravimetric	
	µg/ml	28.1	22.5	33.6		
Phenytoin	µmol/l	96.2	77.0	115	Abbott Architect	
	µg/ml	24.3	19.4	29.2		
	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		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	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	93.7	75.0	112	Roche Cobas 6000/8000
	µg/ml	23.7	18.9	28.5	
	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	
	µmol/l	101	80.8	121	Siemens Atellica CH
	µg/ml	25.5	20.4	30.6	
µmol/l	102	81.6	122	Abbott Alinity	
µg/ml	25.8	20.6	31.0		
µmol/l	99.8	79.8	120	Gravimetric	
µg/ml	25.2	20.1	30.3		
Primidone	µmol/l	32.7	26.2	39.2	Gravimetric
	µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	87.6	70.1	105	Abbott Architect
	ng/ml	27.4	21.9	32.9	
	nmol/l	138	110	166	BioMerieux Vidas
	ng/ml	43.2	34.4	52.0	
	nmol/l	66.5	53.2	79.8	Siemens Centaur XP/XPT/Classic
	ng/ml	20.8	16.7	24.9	
	nmol/l	70.7	56.6	84.8	Siemens Immulite 2000/2500
	ng/ml	22.1	17.7	26.5	
	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	
nmol/l	92.4	73.9	111	Roche Cobas 4000/e411 (Prog. II)	
ng/ml	28.9	23.1	34.7		
nmol/l	93.2	74.6	112	Roche Cobas e601/602 (Prog. II)	
ng/ml	29.2	23.3	35.1		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	75.2	60.2	90.2	Beckman Dxl Prog DE Cal A80773
	ng/ml	23.5	18.8	28.2	
	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	92.5	74.0	111	Roche Cobas e601/602 (Prog. III)
	ng/ml	29.0	23.2	34.8	
	nmol/l	92.4	73.9	111	Roche Elecsys (Prog. III)
	ng/ml	28.9	23.1	34.7	
	nmol/l	91.8	73.4	110	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	28.7	23.0	34.4	
	nmol/l	81.3	65.0	97.6	Diasorin Liaison XL
	ng/ml	25.4	20.3	30.5	
	nmol/l	82.8	66.2	99.0	Abbott Alinity i
	ng/ml	25.9	20.7	31.1	
nmol/l	92.8	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	1196	957	1435	Abbott Architect
	µU/ml	1392	1114	1670	BioMerieux Vidas
	µU/ml	995	796	1194	Siemens Centaur XP/XPT/Classic
	µU/ml	1032	826	1238	Siemens Immulite 2000/2500
	µU/ml	1180	944	1416	Siemens Immulite 1000
	µU/ml	986	789	1183	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	979	783	1175	Vitros ECi
	µU/ml	1059	847	1271	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1147	918	1376	Immunotech IRMA
	µU/ml	1114	891	1337	Roche Cobas 4000/E411
	µU/ml	1061	849	1273	Roche Cobas e601/602
	µU/ml	944	755	1133	Siemens Centaur CP
	µU/ml	1178	942	1414	Diasorin Liaison XL
	µU/ml	1008	806	1210	Siemens Atellica IM
µU/ml	1242	994	1490	Abbott Alinity i	
µU/ml	1059	847	1271	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	25.9	19.4	32.4	Abbott Architect
	ng/ml = µg/l	26.7	20.0	33.4	BioMerieux Vidas
	ng/ml = µg/l	22.0	16.5	27.5	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

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC 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	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	21.0	15.8	26.3	Beckman Access standardised to Hybritech
	ng/ml = µg/l	16.2	12.2	20.3	Tosoh Series
	ng/ml = µg/l	16.8	12.6	21.0	Roche Cobas 4000/E411
	ng/ml = µg/l	16.7	12.5	20.9	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	24.2	18.2	30.3	Abbott Alinity i
ng/ml = µg/l	16.3	12.2	20.4	Roche Cobas e402/e801	
PSA Total	ng/ml = µg/l	17.8	13.4	22.3	Abbott Architect
	ng/ml = µg/l	25.1	18.8	31.4	BioMerieux Vidas
	ng/ml = µg/l	25.3	19.0	31.6	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	22.6	17.0	28.3	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	17.1	12.8	21.4	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	22.9	17.2	28.6	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	23.3	17.5	29.1	Roche Cobas 4000/E411
	ng/ml = µg/l	22.4	16.8	28.0	Roche Cobas e601/602
	ng/ml = µg/l	17.0	12.8	21.3	Fujirebio Lumipulse G Series
	ng/ml = µg/l	22.7	17.0	28.4	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	23.0	17.3	28.8	Siemens Atellica IM	
ng/ml = µg/l	17.6	13.2	22.0	Abbott Alinity i	
ng/ml = µg/l	22.0	16.5	27.5	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	
	mmol/l	2.90	2.32	3.48	EMIT
mg/dl	40.1	32.0	48.2		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Salicylic Acid	mmol/l	2.88	2.30	3.46	Gravimetric
	mg/dl	39.7	31.7	47.7	
SHBG	nmol/l	39.9	31.9	47.9	Siemens Immulite 2000/2500
	nmol/l	39.7	31.8	47.6	Abbott Architect
	nmol/l	42.2	33.8	50.6	Beckman Access
	nmol/l	41.0	32.8	49.2	Beckman DxI800
	nmol/l	40.7	32.6	48.8	Siemens Atellica IM
	nmol/l	39.5	31.6	47.4	Roche analysers - 413417/15
	nmol/l	37.3	29.8	44.8	Roche Cobas e801 - 413429
	nmol/l	41.4	33.1	49.7	Abbott Alinity i
T Uptake	%U	38.9	31.9	45.9	Siemens Immulite 2000
Testosterone	nmol/l	29.0	23.2	34.8	Abbott Architect
	ng/ml	8.35	6.68	10.0	
	ng/dl	835	668	1002	
	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	31.9	25.5	38.3	Siemens Immulite 2000/2500
	ng/ml	9.19	7.34	11.0	
	ng/dl	919	734	1104	
	nmol/l	22.8	18.2	27.4	Beckman DxI800
	ng/ml	6.57	5.24	7.90	
	ng/dl	657	524	790	
	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	28.1	22.5	33.7	Roche Cobas e601/602 Test II	
ng/ml	8.09	6.48	9.70		
ng/dl	809	648	970		
nmol/l	28.5	22.8	34.2	Roche Elecsys Test II	
ng/ml	8.21	6.57	9.85		
ng/dl	821	657	985		
nmol/l	28.5	22.8	34.2	Roche Cobas 4000/e411 Test II	
ng/ml	8.21	6.57	9.85		
ng/dl	821	657	985		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	29.7	23.8	35.6	Abbott Architect 2nd Generation
	ng/ml	8.55	6.85	10.3	
	ng/dl	855	685	1025	
	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	25.4	20.3	30.5	Siemens Centaur TST II
	ng/ml	7.32	5.85	8.79	
	ng/dl	732	585	879	
	nmol/l	25.8	20.6	31.0	Siemens Atellica IM
	ng/ml	7.43	5.93	8.93	
	ng/dl	743	593	893	
nmol/l	28.4	22.7	34.1	Roche Cobas e801 Test II	
ng/ml	8.18	6.54	9.82		
ng/dl	818	654	982		
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	30.8	24.6	37.0	Abbott Alinity i	
ng/ml	8.87	7.08	10.7		
ng/dl	887	708	1066		
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		
Thyroglobulin	ng/ml	37.3	28.0	46.6	Siemens Immulite 1000
	ng/ml	37.4	28.1	46.8	Siemens Immulite 2000
	ng/ml	72.3	54.2	90.4	Roche Elecsys

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroglobulin	ng/ml	58.4	43.8	73.0	Beckman Dxl800
	ng/ml	70.3	52.7	87.9	Roche Cobas 4000/E411
	ng/ml	72.3	54.2	90.4	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	71.2	53.4	89.0	Roche Cobas e601/602 Tg II
	ng/ml	69.0	51.8	86.3	Roche Elecsys TGII
	ng/ml	66.3	49.7	82.9	Roche Cobas 4000/E411 TGII
	ng/ml	59.4	44.6	74.3	Diasorin Liaison XL
	ng/ml	67.6	50.7	84.5	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	18.8	15.0	22.6	Abbott Architect
	µU/ml = mIU/l	19.5	15.6	23.4	bioMerieux VIDAS TSH
	µU/ml = mIU/l	16.9	13.5	20.3	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	24.1	19.3	28.9	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	22.4	17.9	26.9	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	20.8	16.6	25.0	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	24.1	19.3	28.9	Tosoh Series
	µU/ml = mIU/l	27.4	21.9	32.9	Vitros ECi
	µU/ml = mIU/l	22.3	17.8	26.8	Roche Cobas 4000/E411
	µU/ml = mIU/l	22.1	17.7	26.5	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	24.4	19.5	29.3	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	27.4	21.9	32.9	Mindray CL-2000i
	µU/ml = mIU/l	20.5	16.4	24.6	Beckman Dxl 600/800 Access (3rd IS)
µU/ml = mIU/l	32.8	26.2	39.4	Diasorin Liaison XL	
µU/ml = mIU/l	23.5	18.8	28.2	Siemens Atellica IM	
µU/ml = mIU/l	17.9	14.3	21.5	Abbott Alinity i	
µU/ml = mIU/l	21.1	16.9	25.3	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	262	210	314	Abbott Architect
	IU/ml	0.262	0.210	0.314	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC 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	502	402	602	BioMerieux Vidas
	IU/ml	0.502	0.402	0.602	
	mU/ml=IU/l	229	183	275	Siemens Centaur XP/XPT/Classic
	IU/ml	0.229	0.183	0.275	
	mU/ml=IU/l	456	365	547	Siemens Dimension
	IU/ml	0.456	0.365	0.547	
	mU/ml=IU/l	578	462	694	Siemens Immulite 2000
	IU/ml	0.578	0.462	0.694	
	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 Dxl800
	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	467	374	560	Vitros ECi
	IU/ml	0.467	0.374	0.560	
	mU/ml=IU/l	242	194	290	Roche hCG STAT (Intact)
	IU/ml	0.242	0.194	0.290	
	mU/ml=IU/l	312	250	374	Roche hCG+Beta
	IU/ml	0.312	0.250	0.374	
	mU/ml=IU/l	261	209	313	Beckman Access Total BhCG (5th IS)
	IU/ml	0.261	0.209	0.313	
	mU/ml=IU/l	271	217	325	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.271	0.217	0.325	
	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	245	196	294	Siemens Atellica IM	
IU/ml	0.245	0.196	0.294		
mU/ml=IU/l	257	206	308	Abbott Alinity i	
IU/ml	0.257	0.206	0.308		
mU/ml=IU/l	297	238	356	Roche hCG+Beta e801	
IU/ml	0.297	0.238	0.356		
mU/ml=IU/l	559	447	671	Tosoh AIA-CL Series	
IU/ml	0.559	0.447	0.671		
Total T3	nmol/l	4.63	3.47	5.79	Abbott Architect
	ng/ml	3.01	2.26	3.76	
	ng/dl	301	226	376	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC 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	6.32	4.74	7.90	Siemens Centaur XP/XPT/Classic
	ng/ml	4.11	3.09	5.13	
	ng/dl	411	309	513	
	nmol/l	5.60	4.20	7.00	Siemens Immulite 2000/2500
	ng/ml	3.65	2.73	4.57	
	ng/dl	365	273	457	
	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	6.53	4.90	8.16	Vitros ECI
	ng/ml	4.25	3.19	5.31	
	ng/dl	425	319	531	
	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	5.68	4.26	7.10	Roche Cobas 4000/E411	
ng/ml	3.70	2.77	4.63		
ng/dl	370	277	463		
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	5.53	4.15	6.91	Roche Cobas e601/602	
ng/ml	3.60	2.70	4.50		
ng/dl	360	270	450		
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		
nmol/l	4.84	3.63	6.05	Abbott Alinity i	
ng/ml	3.15	2.36	3.94		
ng/dl	315	236	394		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	5.93	4.45	7.41	Siemens Atellica IM
	ng/ml	3.86	2.90	4.82	
	ng/dl	386	290	482	
	nmol/l	5.97	4.48	7.46	Roche Cobas e402/e801
	ng/ml	3.89	2.92	4.86	
	ng/dl	389	292	486	
	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	186	140	233	Abbott Architect
	µg/dl	14.5	10.9	18.1	
	ng/ml	145	109	181	
	nmol/l	206	155	258	BioMerieux Vidas
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	220	165	275	Siemens Centaur XP/XPT/Classic
	µg/dl	17.2	12.9	21.5	
	ng/ml	172	129	215	
	nmol/l	187	140	234	Siemens Immulite 2000/2500
	µg/dl	14.6	10.9	18.3	
	ng/ml	146	109	183	
	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	204	153	255	Vitros ECi	
µg/dl	15.9	11.9	19.9		
ng/ml	159	119	199		
nmol/l	236	177	295	CIS RIA Coated tube	
µg/dl	18.4	13.8	23.0		
ng/ml	184	138	230		
nmol/l	179	134	224	Roche Cobas 4000/E411	
µg/dl	14.0	10.5	17.5		
ng/ml	140	105	175		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	178	134	223	Roche Cobas e601/602
	µg/dl	13.9	10.5	17.3	
	ng/ml	139	105	173	
	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	187	140	234	Abbott Alinity i
	µg/dl	14.6	10.9	18.3	
	ng/ml	146	109	183	
	nmol/l	237	178	296	Siemens Atellica IM
	µg/dl	18.5	13.9	23.1	
	ng/ml	185	139	231	
nmol/l	172	129	215	Roche Cobas e402/e801	
µg/dl	13.4	10.1	16.7		
ng/ml	134	101	167		
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	950	760	1140	Abbott Architect (CMIA)
	µg/ml	137	110	164	
	µmol/l	976	781	1171	Siemens Centaur XP/XPT/Classic
	µg/ml	141	113	169	
	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	931	745	1117	Roche Cobas 6000/8000
	µg/ml	134	108	160	
	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		
µmol/l	1013	810	1216	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	146	117	175		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	824	659	989	Abbott Architect (PETINA)
	µg/ml	119	95.1	143	
	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	
Vancomycin	µmol/l	902	722	1082	Abbott Alinity (PETINA)
	µg/ml	130	104	156	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
	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	12.7	10.2	15.2	Abbott Architect (CMIA)
	µg/ml	18.9	15.2	22.6	
	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	10.8	8.64	13.0	Roche Cobas 6000/8000
	µg/ml	16.0	12.8	19.2	
	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	468	374	562	Abbott Architect
	pg/ml	634	507	761	
	pmol/l	638	510	766	Siemens Centaur XP/XPT/Classic
	pg/ml	864	691	1037	
	pmol/l	556	445	667	Siemens Immulite 2000
	pg/ml	753	603	903	
pmol/l	476	381	571	Beckman DxI800	
pg/ml	645	516	774		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2113EC Size 12 x 5ml / 4 x 5 ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	629	503	755	Roche Elecsys
	pg/ml	852	682	1022	
	pmol/l	511	409	613	Beckman Access
	pg/ml	692	554	830	
	pmol/l	762	610	914	Tosoh Series
	pg/ml	1033	827	1239	
	pmol/l	652	522	782	Vitros ECI
	pg/ml	883	707	1059	
	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	635	508	762	Roche Cobas 4000/e411 Gen II
	pg/ml	860	688	1032	
	pmol/l	646	517	775	Roche Cobas e601/602 Gen II
	pg/ml	875	701	1049	
	pmol/l	537	430	644	Diasorin Liaison XL
	pg/ml	728	583	873	
	pmol/l	649	519	779	Siemens Atellica IM
	pg/ml	879	703	1055	
pmol/l	464	371	557	Abbott Alinity i	
pg/ml	629	503	755		
pmol/l	641	513	769	Roche Cobas e801 Gen II	
pg/ml	869	695	1043		