

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

CAT. NO. IA3111 **GTIN:** 05055273207279
CAT. NO. IA3112 **GTIN:** 05055273207286
LOT NO. 1578EC
SIZE: 12 x 5 ml / 12 x 5 ml
EXPIRY: 2018-11-28

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 assayed within 4 hours of reconstitution, when stored at +2°C to +8°C. 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.

1. 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.
2. Refer to the Control section of the individual analyser application.
3. Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED

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

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Aldosterone is present in control levels 2 and level 3 only. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

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

Rev. 21 Jul '16 ne

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	24.0	18.0	30.0	Immunotech RIA
	ng/ml	7.94	5.96	9.92	
	nmol/l	31.9	23.9	39.9	DIAsource RIA
	ng/ml	10.6	7.91	13.3	
	nmol/l	30.0	22.5	37.5	MP Biomedicals RIA
	ng/ml	9.93	7.45	12.4	
25-OH Vitamin D	nmol/l	83.3	62.5	104	Diasorin Liaison
	nmol/l	120	90.0	150	Siemens Centaur XP/XPT/Classic
	nmol/l	67.5	50.6	84.4	Roche Vitamin D Total
	nmol/l	79.2	59.4	99.0	Abbott Architect
	nmol/l	86.7	65.0	108	Vitros ECI
	nmol/l	82.8	62.1	104	BioMerieux Vidas
	nmol/l	70.1	52.6	87.6	Beckman Dxl 600/800
ACTH	pmol/l	10.2	7.65	12.8	Siemens Immulite 2000/2500
	pg/ml	46.4	34.8	58.0	
	pmol/l	8.67	6.50	10.8	Roche Cobas E411
	pg/ml	39.4	29.5	49.3	
	pmol/l	7.94	5.96	9.93	Roche Cobas 6000/8000
	pg/ml	36.1	27.1	45.1	
Aldosterone	pmol/l	502	377	628	Diasorin Liaison
	pg/ml	181	136	226	
Alphafoetoprotein	KIU/l = IU/ml	195	156	234	BioMerieux Vidas
	ng/ml	236	189	283	
	KIU/l = IU/ml	192	154	230	Siemens Immulite 1000
	ng/ml	232	186	278	
	KIU/l = IU/ml	194	155	233	Roche Elecsys
	ng/ml	235	188	282	
	KIU/l = IU/ml	228	182	274	Vitros ECI
	ng/ml	276	220	332	
	KIU/l = IU/ml	232	183	281	Siemens Centaur XP/XPT/Classic
	ng/ml	281	222	340	
	KIU/l = IU/ml	183	146	220	Siemens Immulite 2000/2500
	ng/ml	221	177	265	
	KIU/l = IU/ml	178	142	214	Abbott Architect
	ng/ml	215	172	258	
	KIU/l = IU/ml	200	160	240	Roche Modular E170
	ng/ml	242	194	290	
	KIU/l = IU/ml	186	149	223	Beckman Dxl800
	ng/ml	225	180	270	
	KIU/l = IU/ml	202	162	242	Roche Cobas 6000/8000
	ng/ml	244	196	292	
	KIU/l = IU/ml	209	167	251	Roche Cobas E411
	ng/ml	253	202	304	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Amikacin	µmol/l	24.1	19.3	28.9	Gravimetric
	µg/ml	14.1	11.3	16.9	
Androstenedione	nmol/l	30.9	23.2	38.6	Siemens Immulite 2000
	ng/ml	8.87	6.66	11.1	
Beta-2-microglobulin	µg/ml = mg/l	7.23	5.78	8.68	Roche Tinaquant
	µg/ml = mg/l	7.26	5.81	8.71	Siemens Immulite 2000/2500
	µg/ml = mg/l	8.47	6.78	10.2	Abbott Architect
	µg/ml = mg/l	7.77	6.22	9.32	Roche Cobas 6000/8000
C-Peptide	nmol/l	1.530	1.150	1.910	Siemens Immulite 2000/2500
	ng/ml	4.62	3.47	5.77	
	nmol/l	2.020	1.520	2.530	Roche Cobas 6000/8000
	ng/ml	6.10	4.59	7.61	
	nmol/l	2.100	1.580	2.630	Roche Cobas E411
	ng/ml	6.34	4.77	7.91	
	nmol/l	1.350	1.010	1.690	Abbott Architect
	ng/ml	4.08	3.05	5.11	
CA 15-3	U/ml	94.6	75.7	114	Roche Elecsys
	U/ml	75.6	60.5	90.7	BioMerieux Vidas
	U/ml	85.2	58.8	112	Siemens Centaur XP/XPT/Classic
	U/ml	85.0	68.0	102	Abbott Architect
	U/ml	82.3	65.8	98.8	Siemens Immulite 2000/2500
	U/ml	88.4	70.7	106	Siemens Immulite 1000
	U/ml	85.0	68.0	102	Vitros ECI
	U/ml	87.9	70.3	105	Roche Modular E170
	U/ml	34.8	27.8	41.8	Beckman Dxl800
	U/ml	89.7	71.8	108	Roche Cobas 6000/8000
	U/ml	90.1	72.1	108	Roche Cobas E411
CA 19-9	U/ml	232	186	278	Siemens Immulite 1000
	U/ml	264	211	317	BioMerieux Vidas
	U/ml	147	118	176	Roche Elecsys
	U/ml	237	164	310	Siemens Centaur XP/XPT/Classic
	U/ml	206	165	247	Siemens Immulite 2000/2500
	U/ml	571	457	685	Abbott Architect
	U/ml	328	262	394	Vitros ECI
	U/ml	146	117	175	Roche Modular E170
	U/ml	166	133	199	Beckman Dxl800
	U/ml	555	444	666	Abbott Architect XR kit
	U/ml	147	118	176	Roche Cobas 6000/8000
	U/ml	149	119	179	Roche Cobas E411
	U/ml	249	172	326	Siemens Centaur CP
CA125	U/ml	237	190	284	Siemens Immulite 1000
	U/ml	223	178	268	BioMerieux Vidas
	U/ml	228	182	274	Roche Elecsys
	U/ml	215	172	258	Siemens Immulite 2000/2500
	U/ml	216	173	259	Vitros ECI

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
CA125	U/ml	305	244	366	Diasorin Liaison
	U/ml	215	172	258	Roche Modular E170
	U/ml	294	235	353	Abbott Architect
	U/ml	219	151	287	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	173	138	208	Beckman Access
	U/ml	175	140	210	Beckman Dxl800
	U/ml	224	179	269	Roche Cobas E411
	U/ml	220	176	264	Roche Cobas 6000/8000
Carbamazepine	µmol/l	69.5	55.6	83.4	Vitros
	µg/ml	16.4	13.1	19.7	
	µmol/l	76.3	47.3	105	Siemens Centaur XP/XPT/Classic
	µg/ml	18.0	11.2	24.8	
	µmol/l	65.1	52.1	78.1	Siemens Immulite 1000
	µg/ml	15.4	12.3	18.5	
	µmol/l	78.2	62.6	93.8	Roche Integra
	µg/ml	18.5	14.8	22.2	
	µmol/l	68.1	54.5	81.7	Abbott Architect
	µg/ml	16.1	12.9	19.3	
	µmol/l	74.9	59.9	89.9	Beckman DxC
	µg/ml	17.7	14.2	21.2	
	µmol/l	70.2	56.2	84.2	Roche Cobas E411
	µg/ml	16.6	13.3	19.9	
	µmol/l	70.3	56.2	84.4	Roche Cobas 6000/8000
	µg/ml	16.6	13.3	19.9	
	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	49.9	39.9	59.9	BioMerieux Vidas
	ng/ml = µg/l	70.3	56.2	84.4	Siemens Immulite 1000
	ng/ml = µg/l	48.8	39.0	58.6	Roche Elecsys
	ng/ml = µg/l	60.0	48.0	72.0	Vitros ECI
	ng/ml = µg/l	53.3	42.6	64.0	Beckman Access
	ng/ml = µg/l	57.3	39.5	75.1	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	71.9	57.5	86.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	59.3	47.4	71.2	Abbott Architect
	ng/ml = µg/l	47.0	37.6	56.4	Roche Modular E170
	ng/ml = µg/l	48.3	38.6	58.0	Beckman Dxl800
	ng/ml = µg/l	47.7	38.2	57.2	Roche Cobas 6000/8000
	ng/ml = µg/l	48.9	39.1	58.7	Roche Cobas E411
Cortisol	nmol/l	848	636	1060	BioMerieux Vidas
	µg/dl	30.5	22.9	38.1	
	nmol/l	985	739	1231	Siemens Immulite 1000
	µg/dl	35.5	26.6	44.4	
	nmol/l	993	745	1241	Roche Elecsys
	µg/dl	35.7	26.8	44.6	
	nmol/l	968	726	1210	Beckman Access
	µg/dl	34.8	26.1	43.5	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Cortisol	nmol/l	1047	722	1372	Siemens Centaur XP/XPT/Classic
	µg/dl	37.7	26.0	49.4	
	nmol/l	898	674	1123	Siemens Immulite 2000/2500
	µg/dl	32.3	24.3	40.3	
	nmol/l	802	602	1003	CIS RIA
	µg/dl	28.9	21.7	36.1	
	nmol/l	881	661	1101	Vitros ECI
	µg/dl	31.7	23.8	39.6	
	nmol/l	796	597	995	Abbott Architect
	µg/dl	28.7	21.5	35.9	
	nmol/l	953	715	1191	Roche Modular E170
	µg/dl	34.3	25.7	42.9	
	nmol/l	901	676	1126	Beckman Dxl800
	µg/dl	32.4	24.3	40.5	
	nmol/l	952	714	1190	Roche Cobas 6000/8000
	µg/dl	34.3	25.7	42.9	
	nmol/l	954	716	1193	Roche Cobas E411
	µg/dl	34.3	25.8	42.8	
DHEA-S	nmol/l	801	601	1001	Roche Modular E170 Gen II
	µg/dl	28.8	21.6	36.0	
	nmol/l	865	649	1081	Roche Cobas 4000/e411 Gen II
	µg/dl	31.1	23.4	38.8	
	nmol/l	816	612	1020	Roche Cobas 6000/8000 Gen II
	µg/dl	29.4	22.0	36.8	
	µmol/l	19.5	15.6	23.4	Siemens Immulite 1000
	µmol/l	18.6	14.9	22.3	
Digoxin	µmol/l	24.7	19.8	29.6	Siemens Immulite 2000/2500
	µmol/l	25.5	20.4	30.6	
	µmol/l	20.0	16.0	24.0	Roche Elecsys
	µmol/l	16.8	10.1	23.5	
	µmol/l	25.3	20.2	30.4	Roche Modular E170
	µmol/l	25.8	20.6	31.0	
	µmol/l	16.8	10.1	23.5	Abbott Architect
	µmol/l	25.3	20.2	30.4	
Digoxin	nmol/l	4.64	3.71	5.57	Siemens Centaur XP/XPT/Classic
	ng/ml	3.62	2.90	4.34	
	nmol/l	4.31	3.45	5.17	Roche Cobas E411
	ng/ml	3.37	2.69	4.05	
	nmol/l	5.18	4.14	6.22	Roche Cobas 6000/8000
	ng/ml	4.05	3.23	4.87	
	nmol/l	5.29	4.13	6.45	Siemens Immulite 2000/2500
	ng/ml	4.13	3.22	5.04	
	nmol/l	4.47	3.58	5.36	Siemens Centaur XP/XPT/Classic
	ng/ml	3.49	2.80	4.18	
	nmol/l	4.88	3.90	5.86	Abbott Architect
	ng/ml	3.81	3.05	4.57	
	nmol/l	5.54	4.43	6.65	Beckman Dxl800
	ng/ml	4.33	3.46	5.20	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Digoxin	nmol/l	5.24	4.19	6.29	Beckman AU400/600/640/2700/5400
	ng/ml	4.09	3.27	4.91	
	nmol/l	5.94	4.75	7.13	Roche Cobas 4000/E411
	ng/ml	4.64	3.71	5.57	
	nmol/l	5.12	4.10	6.14	Gravimetric
	ng/ml	4.00	3.20	4.80	
Ethosuximide	µmol/l	493	395	592	Gravimetric
	µg/ml	70.0	56.0	83.9	
Ferritin	ng/ml = µg/l	255	204	306	Siemens Immulite 1000
	ng/ml = µg/l	310	248	372	Roche Elecsys
	ng/ml = µg/l	237	190	284	Beckman Access
	ng/ml = µg/l	217	174	260	Vitros Eci
	ng/ml = µg/l	328	256	400	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	311	249	373	Siemens Immulite 2000/2500
	ng/ml = µg/l	395	316	474	Abbott Architect
	ng/ml = µg/l	316	253	379	Roche Modular E170
	ng/ml = µg/l	292	234	350	Siemens Dimension
	ng/ml = µg/l	226	181	271	Beckman Dxl800
	ng/ml = µg/l	327	262	392	Roche Cobas E411
	ng/ml = µg/l	281	225	337	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	301	235	367	Siemens Centaur CP
Folate	nmol/l	27.5	20.9	34.1	Beckman Access
	ng/ml	12.1	9.22	15.0	
	nmol/l	35.3	26.8	43.8	Roche Elecsys
	ng/ml	15.6	11.8	19.4	
	nmol/l	29.6	22.5	36.7	Siemens Immulite 2000
	ng/ml	13.1	9.92	16.3	
	nmol/l	16.8	12.8	20.8	Vitros Eci
	ng/ml	7.41	5.64	9.18	
	nmol/l	25.4	19.3	31.5	Abbott Architect
	ng/ml	11.2	8.51	13.9	
	nmol/l	32.3	24.5	40.1	Roche Modular E170
	ng/ml	14.2	10.8	17.6	
	nmol/l	51.7	31.0	72.4	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	22.8	13.7	31.9	
	nmol/l	28.3	21.5	35.1	Beckman Dxl800
	ng/ml	12.5	9.48	15.5	
	nmol/l	31.6	24.0	39.2	Roche Cobas E411
	ng/ml	13.9	10.6	17.2	
	nmol/l	32.1	24.4	39.8	Roche Cobas 6000/8000
	ng/ml	14.2	10.8	17.6	
Free T3	pmol/l	27.0	20.3	33.8	BioMerieux Vidas
	ng/dl	1.76	1.32	2.20	
	pg/ml	17.6	13.2	22.0	
	pmol/l	32.5	24.4	40.6	Roche Elecsys
	ng/dl	2.11	1.59	2.63	
	pg/ml	21.2	15.9	26.5	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	24.0	18.0	30.0	Beckman Access
	ng/dl	1.56	1.17	1.95	
	pg/ml	15.6	11.7	19.5	
	pmol/l	17.9	13.4	22.4	Siemens Immulite 1000
	ng/dl	1.16	0.871	1.45	
	pg/ml	11.7	8.72	14.7	
	pmol/l	35.0	26.3	43.8	Vitros ECI
	ng/dl	2.28	1.71	2.85	
	pg/ml	22.8	17.1	28.5	
	pmol/l	28.2	16.9	39.5	Siemens Centaur XP/XPT/Classic
	ng/dl	1.83	1.10	2.56	
	pg/ml	18.4	11.0	25.8	
	pmol/l	19.7	14.8	24.6	Siemens Immulite 2000/2500
	ng/dl	1.28	0.962	1.60	
	pg/ml	12.8	9.63	16.0	
	pmol/l	28.2	21.2	35.3	Abbott Architect
	ng/dl	1.83	1.38	2.28	
	pg/ml	18.4	13.8	23.0	
	pmol/l	43.7	32.8	54.6	Diasorin Liaison
	ng/dl	2.84	2.13	3.55	
	pg/ml	28.4	21.4	35.4	
	pmol/l	32.9	24.7	41.1	Roche Modular E170
	ng/dl	2.14	1.61	2.67	
	pg/ml	21.4	16.1	26.7	
	pmol/l	23.9	17.9	29.9	Beckman Dxl800
	ng/dl	1.55	1.16	1.94	
	pg/ml	15.6	11.7	19.5	
	pmol/l	33.1	24.8	41.4	Roche Cobas E411
	ng/dl	2.15	1.61	2.69	
	pg/ml	21.5	16.1	26.9	
	pmol/l	33.3	25.0	41.6	Roche Cobas 6000/8000
	ng/dl	2.16	1.63	2.69	
	pg/ml	21.7	16.3	27.1	
	pmol/l	28.9	17.3	40.5	Siemens Centaur CP
	ng/dl	1.88	1.13	2.63	
	pg/ml	18.8	11.3	26.3	
Free T4	pmol/l	76.2	57.2	95.3	Siemens Immulite 1000
	ng/dl	5.94	4.46	7.42	
	pg/ml	59.4	44.6	74.2	
	pmol/l	82.4	61.8	103	Roche Elecsys
	ng/dl	6.43	4.82	8.04	
	pg/ml	64.3	48.2	80.4	
	pmol/l	54.9	41.2	68.6	Beckman Access
	ng/dl	4.28	3.21	5.35	
	pg/ml	42.8	32.1	53.5	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	89.9	67.4	112	Vitros ECI
	ng/dl	7.01	5.26	8.76	
	pg/ml	70.1	52.6	87.6	
	pmol/l	56.0	42.0	70.0	Siemens Centaur XP/XPT/Classic
	ng/dl	4.37	3.28	5.46	
	pg/ml	43.7	32.8	54.6	
	pmol/l	75.5	56.6	94.4	Siemens Immulite 2000/2500
	ng/dl	5.89	4.41	7.37	
	pg/ml	58.9	44.1	73.7	
	pmol/l	58.5	43.9	73.1	Abbott Architect
	ng/dl	4.56	3.42	5.70	
	pg/ml	45.6	34.2	57.0	
	pmol/l	87.0	65.3	109	Roche Modular E170
	ng/dl	6.79	5.09	8.49	
	pg/ml	67.9	50.9	84.9	
	pmol/l	60.6	45.5	75.8	Beckman Dxl800
	ng/dl	4.73	3.55	5.91	
	pg/ml	47.3	35.5	59.1	
	pmol/l	86.0	64.5	108	Roche Cobas 6000/8000
	ng/dl	6.71	5.03	8.39	
	pg/ml	67.1	50.3	83.9	
	pmol/l	84.5	63.4	106	Roche Cobas E411
	ng/dl	6.59	4.95	8.23	
	pg/ml	65.9	49.5	82.3	
FSH	pmol/l	46.7	35.0	58.4	Monobind Inc. ELISA / CLIA
	ng/dl	3.64	2.73	4.55	
	pg/ml	36.4	27.3	45.5	
	pmol/l	83.9	62.9	105	Biomerieux Vidas FT4N Kit
	ng/dl	6.54	4.91	8.17	
	pg/ml	65.4	49.1	81.7	
	pmol/l	59.0	44.3	73.7	Siemens Centaur CP
	ng/dl	4.60	3.45	5.75	
	pg/ml	46.0	34.5	57.5	
	mU/ml	57.4	45.9	68.9	Siemens Immulite 1000
	mU/ml	84.6	67.7	102	BioMerieux Vidas
	mU/ml	68.6	54.9	82.3	Beckman Access
	mU/ml	62.1	49.7	74.5	Roche/BM Elecsys
	mU/ml	48.6	38.9	58.3	Vitros ECI
	mU/ml	92.6	72.2	113	Siemens Centaur XP/XPT/Classic
	mU/ml	63.1	50.5	75.7	Siemens Immulite 2000/2500
	mU/ml	56.8	45.4	68.2	Abbott Architect
	mU/ml	80.5	64.4	96.6	Diasorin Liaison
	mU/ml	59.9	47.9	71.9	Roche Modular E170
	mU/ml	68.4	54.7	82.1	Beckman Dxl800
	mU/ml	63.9	51.1	76.7	Roche Cobas E411
	mU/ml	60.7	48.6	72.8	Roche Cobas 6000/8000

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
FSH	mU/ml	78.0	60.8	95.2	Siemens Centaur CP
Gentamicin	µmol/l	11.7	9.37	14.1	Gravimetric
	µg/ml	5.60	4.48	6.74	
Growth Hormone (GH)	µU/ml	44.5	35.6	53.4	Siemens Immulite 1000
	ng/ml	14.8	11.9	17.7	
	µU/ml	45.4	36.3	54.5	Siemens Immulite 2000/2500
	ng/ml	15.1	12.1	18.1	
	µU/ml	33.4	26.7	40.1	Beckman Dxl800
	ng/ml	11.1	8.89	13.3	
	µU/ml	39.3	31.4	47.2	Diasorin Liaison
	ng/ml	13.1	10.5	15.7	
	µU/ml	39.8	31.8	47.8	Roche Cobas E411
	ng/ml	13.3	10.6	16.0	
	µU/ml	38.4	30.7	46.1	Roche Cobas 6000/8000
	ng/ml	12.8	10.2	15.4	
	µU/ml	42.3	33.8	50.8	IDS iSYS
	ng/ml	14.1	11.3	16.9	
Immunoglobulin E	KIU/l = IU/ml	467	374	560	Siemens Immulite 1000
	KIU/l = IU/ml	399	319	479	BioMerieux Vidas
	KIU/l = IU/ml	410	328	492	Beckman Access
	KIU/l = IU/ml	370	296	444	Pharmacia Unicap
	KIU/l = IU/ml	457	366	548	Roche Elecsys
	KIU/l = IU/ml	400	240	560	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	463	370	556	Siemens Immulite 2000/2500
	KIU/l = IU/ml	468	374	562	Roche Modular E170
	KIU/l = IU/ml	411	329	493	Beckman Dxl800
	KIU/l = IU/ml	502	402	602	Abbott Architect
	KIU/l = IU/ml	460	368	552	Roche Cobas E411
	KIU/l = IU/ml	459	367	551	Roche Cobas 6000/8000
	KIU/l = IU/ml	441	353	529	Monobind Inc. ELISA / CLIA
Insulin	mU/l	32.2	24.2	40.3	Siemens Centaur XP/XPT/Classic
	mU/l	9.53	7.15	11.9	Siemens Immulite 1000
	mU/l	25.4	19.1	31.8	Roche Modular E170
	mU/l	10.3	7.73	12.9	Siemens Immulite 2000
	mU/l	26.0	19.5	32.5	Roche Elecsys
	mU/l	22.1	16.6	27.6	Beckman Access
	mU/l	22.2	16.7	27.8	Abbott Architect
	mU/l	26.2	19.7	32.8	Roche Cobas E411
	mU/l	26.1	19.6	32.6	Roche Cobas 6000/8000
	mU/l	23.1	17.3	28.9	Beckman Dxl 600/800
	mU/l	24.6	18.5	30.8	Diasorin Liaison
Luteinising Hormone (LH)	mU/ml	34.4	27.5	41.3	Beckman Access
	mU/ml	44.2	35.4	53.0	BioMerieux Vidas
	mU/ml	60.0	48.0	72.0	Siemens Immulite 1000
	mU/ml	45.5	36.4	54.6	Roche Elecsys
	mU/ml	48.2	38.6	57.8	Vitros ECI

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Luteinising Hormone (LH)	mU/ml	45.9	35.3	56.5	Siemens Centaur XP/XPT/Classic
	mU/ml	56.7	45.4	68.0	Siemens Immulite 2000
	mU/ml	38.5	30.8	46.2	Abbott Architect
	mU/ml	59.7	47.8	71.6	Diasorin Liaison
	mU/ml	45.0	36.0	54.0	Roche Modular E170
	mU/ml	34.0	27.2	40.8	Beckman Dxl800
	mU/ml	46.1	36.9	55.3	Roche Cobas E411
	mU/ml	45.4	36.3	54.5	Roche Cobas 6000/8000
	mU/ml	45.5	35.0	56.0	Siemens Centaur CP
Oestradiol	pmol/l	2460	1968	2952	BioMerieux Vidas
	pg/ml	669	535	803	
	pmol/l	2427	1942	2912	Siemens Immulite 1000
	pg/ml	660	528	792	
	pmol/l	1860	1488	2232	Vitros ECi
	pg/ml	506	405	607	
	pmol/l	1972	1578	2366	Beckman Access
	pg/ml	536	429	643	
	pmol/l	2031	1625	2437	Siemens Immulite 2000/2500
	pg/ml	552	442	662	
	pmol/l	1078	862	1294	Abbott Architect
	pg/ml	293	234	352	
	pmol/l	1300	1040	1560	Roche Modular E170 (Estradiol II)
	pg/ml	354	283	425	
	pmol/l	1772	1418	2126	Beckman Dxl800
	pg/ml	482	386	578	
	pmol/l	1334	1067	1601	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	363	290	436	
	pmol/l	1397	1118	1676	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	380	304	456	
	pmol/l	2143	1329	2957	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	583	361	805	
	pmol/l	2378	1474	3282	Siemens Centaur CP
	pg/ml	647	401	893	
	pmol/l	1254	1003	1505	Roche Cobas 6000/8000 (Estradiol III)
	pg/ml	341	273	409	
	pmol/l	1267	1014	1520	Roche Elecsys (Estradiol III)
	pg/ml	345	276	414	
	pmol/l	1226	981	1471	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	333	267	399	
	pmol/l	1271	1017	1525	Roche Modular E170 (Estradiol III)
	pg/ml	346	277	415	
Paracetamol	mmol/l	0.620	0.496	0.744	Vitros
	mg/l	93.8	75.0	113	
	mmol/l	0.526	0.421	0.631	Abbott Architect
	mg/l	79.6	63.7	95.5	
	mmol/l	0.529	0.420	0.630	Gravimetric
	mg/l	80.0	63.5	95.3	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Phenobarbital	µmol/l	127	102	152	Abbott Architect
	µg/ml	29.5	23.7	35.3	
	µmol/l	124	99.0	149	Siemens Immulite 2000/2500
	µg/ml	28.8	23.0	34.6	
	µmol/l	131	105	157	Roche Modular P-D
	µg/ml	30.4	24.4	36.4	
	µmol/l	130	104	156	Beckman AU400/600/640/2700/5400
	µg/ml	30.2	24.1	36.3	
	µmol/l	146	107	185	Siemens Centaur XP/XPT/Classic
	µg/ml	33.9	24.7	43.1	
	µmol/l	121	96.6	145	Gravimetric
	µg/ml	28.0	22.4	33.6	
Phenytoin	µmol/l	122	95.2	149	Siemens Centaur XP/XPT/Classic
	µg/ml	30.8	24.0	37.6	
	µmol/l	104	83.2	125	Vitros
	µg/ml	26.3	21.0	31.6	
	µmol/l	83.6	66.9	100	Siemens Immulite 1000
	µg/ml	21.1	16.9	25.3	
	µmol/l	93.3	74.6	112	Roche Integra
	µg/ml	23.6	18.8	28.4	
	µmol/l	96.2	77.0	115	Abbott Architect
	µg/ml	24.3	19.4	29.2	
	µmol/l	90.7	72.6	109	Beckman DxC
	µg/ml	22.9	18.3	27.5	
	µmol/l	85.1	68.1	102	Roche Cobas E411
	µg/ml	21.5	17.2	25.8	
	µmol/l	95.0	76.0	114	Roche Cobas 6000/8000
	µg/ml	24.0	19.2	28.8	
	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	114	91.2	137	Beckman Access Prog Cal 33555
	ng/ml	35.7	28.5	42.9	
	nmol/l	94.5	75.6	113	Siemens Immulite 1000
	ng/ml	29.6	23.7	35.5	
	nmol/l	157	126	188	BioMerieux Vidas
	ng/ml	49.1	39.4	58.8	
	nmol/l	138	110	166	Roche Elecsys
	ng/ml	43.2	34.4	52.0	
	nmol/l	109	87.2	131	Vitros ECI
	ng/ml	34.1	27.3	40.9	
	nmol/l	93.1	66.1	120	Siemens Centaur XP/XPT/Classic
	ng/ml	29.1	20.7	37.5	
	nmol/l	86.8	69.4	104	Siemens Immulite 2000/2500
	ng/ml	27.2	21.7	32.7	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Progesterone	nmol/l	108	86.4	130	Abbott Architect
	ng/ml	33.8	27.0	40.6	
	nmol/l	131	105	157	Roche Modular E170
	ng/ml	41.0	32.9	49.1	
	nmol/l	120	96.0	144	Beckman Dxl Prog Cal 33555
	ng/ml	37.6	30.0	45.2	
	nmol/l	135	108	162	Roche Cobas E411
	ng/ml	42.3	33.8	50.8	
Prolactin	nmol/l	135	108	162	Roche Cobas 6000/8000
	ng/ml	42.3	33.8	50.8	
	nmol/l	105	84.0	126	Beckman Dxl Prog DE Cal A80773
	ng/ml	32.9	26.3	39.5	
	µU/ml	122	97.6	146	Beckman Access
	µU/ml	2844	2275	3413	BioMerieux Vidas
	µU/ml	1161	929	1393	Siemens Immulite 1000
	µU/ml	2514	2011	3017	Roche Elecsys
	µU/ml	2360	1888	2832	Vitros ECI
	µU/ml	2682	2012	3352	Siemens Centaur XP/XPT/Classic
	µU/ml	1097	878	1316	Siemens Immulite 2000/2500
	µU/ml	2937	2350	3524	Abbott Architect
	µU/ml	271	217	325	Diasorin Liaison
	µU/ml	2410	1928	2892	Roche Modular E170
	µU/ml	117	93.6	140	Beckman Dxl800
	µU/ml	2492	1994	2990	Roche Elecsys/E170/Cobas 6000/8000 PRLII
PSA Free	µU/ml	2549	2039	3059	Roche Cobas E411
	µU/ml	2431	1945	2917	Roche Cobas 6000/8000
	µU/ml	2853	2282	3424	Abbott Architect restandardised
	ng/ml = µg/l	18.6	14.0	23.3	Siemens Immulite 1000
	ng/ml = µg/l	19.3	14.5	24.1	Siemens Immulite 2000/2500
	ng/ml = µg/l	21.5	16.1	26.9	Roche Elecsys
	ng/ml = µg/l	23.4	17.6	29.3	Abbott Architect
	ng/ml = µg/l	31.7	23.8	39.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	21.0	15.8	26.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	20.7	15.5	25.9	Roche Modular E170
PSA Total	ng/ml = µg/l	29.5	22.1	36.9	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	21.6	16.2	27.0	Roche Cobas E411
	ng/ml = µg/l	21.0	15.8	26.3	Roche Cobas 6000/8000
	ng/ml = µg/l	21.2	15.9	26.5	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	36.2	27.2	45.3	Roche Elecsys
	ng/ml = µg/l	33.5	25.1	41.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	29.1	21.8	36.4	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	29.0	21.8	36.3	bioMerieux VIDAS TPSA
	ng/ml = µg/l	23.8	17.9	29.8	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	30.2	22.7	37.8	Abbott Architect
	ng/ml = µg/l	21.9	16.4	27.4	Siemens Immulite 1000 3rd generation

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
PSA Total	ng/ml = µg/l	34.7	26.0	43.4	Vitros ECI
	ng/ml = µg/l	18.7	14.0	23.4	Diasorin Liaison
	ng/ml = µg/l	35.7	26.8	44.6	Roche Modular E170
	ng/ml = µg/l	33.4	25.1	41.8	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	34.5	25.9	43.1	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	25.6	19.2	32.0	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	39.0	29.3	48.8	Roche Cobas E411
	ng/ml = µg/l	36.3	27.2	45.4	Roche Cobas 6000/8000
	ng/ml = µg/l	36.6	27.5	45.8	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	30.0	22.5	37.5	Siemens Centaur CP
Salicylic Acid	mmol/l	2.90	2.32	3.48	Abbott Architect
	mg/dl	40.1	32.0	48.2	
	mmol/l	3.07	2.46	3.68	Beckman DxC
	mg/dl	42.4	34.0	50.8	
	mmol/l	2.88	2.30	3.45	Gravimetric
SHBG	mg/dl	39.7	31.8	47.7	
	nmol/l	53.5	42.8	64.2	Siemens Centaur XP/XPT/Classic
	nmol/l	37.8	30.2	45.4	Siemens Immulite 2000/2500
	nmol/l	37.7	30.2	45.2	Roche Elecsys
	nmol/l	36.7	29.4	44.0	Roche Modular E170
	nmol/l	39.4	31.5	47.3	Abbott Architect
	nmol/l	38.5	30.8	46.2	Roche Cobas E411
	nmol/l	36.3	29.0	43.6	Roche Cobas 6000/8000
	nmol/l	34.7	27.8	41.6	Beckman Access
T Uptake	nmol/l	35.9	28.7	43.1	Beckman Dxl800
	%U	45.1	37.0	53.2	Siemens Immulite 2000
Testosterone	nmol/l	53.1	42.5	63.7	Siemens Immulite 1000
	ng/ml	15.3	12.2	18.4	
	ng/dl	1529	1224	1834	
	nmol/l	39.9	31.9	47.9	Vitros ECI
	ng/ml	11.5	9.19	13.8	
	ng/dl	1149	919	1379	
	nmol/l	26.0	19.0	33.0	Siemens Centaur XP/XPT/Classic
	ng/ml	7.49	5.47	9.51	
	ng/dl	749	547	951	
	nmol/l	37.2	29.8	44.6	Siemens Immulite 2000/2500
	ng/ml	10.7	8.58	12.8	
	ng/dl	1071	858	1284	
	nmol/l	28.9	23.1	34.7	Abbott Architect
	ng/ml	8.32	6.65	9.99	
	ng/dl	832	665	999	
	nmol/l	25.3	20.2	30.4	Beckman Access
	ng/ml	7.29	5.82	8.76	
	ng/dl	729	582	876	
	nmol/l	22.8	18.2	27.4	Beckman Dxl800
	ng/ml	6.57	5.24	7.90	
	ng/dl	657	524	790	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Testosterone	nmol/l	29.9	23.9	35.9	Roche Elecsys Test II
	ng/ml	8.61	6.88	10.3	
	ng/dl	861	688	1034	
	nmol/l	30.7	24.6	36.8	Roche Modular E170 Test II
	ng/ml	8.84	7.08	10.6	
	ng/dl	884	708	1060	
	nmol/l	30.0	24.0	36.0	Roche Cobas 4000/e411 Test II
	ng/ml	8.64	6.91	10.4	
	ng/dl	864	691	1037	
	nmol/l	30.7	24.6	36.8	Roche Cobas 6000 Test 2
	ng/ml	8.84	7.08	10.6	
	ng/dl	884	708	1060	
	nmol/l	28.1	22.5	33.7	Abbott Architect 2nd Generation
	ng/ml	8.09	6.48	9.70	
	ng/dl	809	648	970	
	nmol/l	25.9	20.7	31.1	BioMerieux Vidas Testosterone II
	ng/ml	7.46	5.96	8.96	
	ng/dl	746	596	896	
Theophylline	µmol/l	216	173	259	Vitros
	µg/ml	38.9	31.2	46.6	
	µmol/l	163	130	196	Abbott Architect
	µg/ml	29.4	23.4	35.4	
	µmol/l	163	130	196	Beckman DxC
	µg/ml	29.4	23.4	35.4	
	µmol/l	166	133	200	Gravimetric
	µg/ml	30.0	24.0	36.0	
Thyroglobulin	ng/ml	32.7	24.5	40.9	Siemens Immulite 1000
	ng/ml	31.1	23.3	38.9	Siemens Immulite 2000
	ng/ml	57.4	43.1	71.8	Roche Modular E170
	ng/ml	60.0	45.0	75.0	Roche Cobas E411
	ng/ml	62.0	46.5	77.5	Roche Cobas 6000/8000
	ng/ml	61.1	45.8	76.4	Roche Cobas 6000 TGII
	ng/ml	61.2	45.9	76.5	Roche Elecsys TGII
	ng/ml	60.5	45.4	75.6	Roche Cobas 4000/E411 TGII
Thyroid Stimulating Hormone	µU/ml = mIU/l	23.3	18.6	28.0	bioMerieux VIDAS TSH
	µU/ml = mIU/l	21.9	17.5	26.3	Siemens Immulite 1000
	µU/ml = mIU/l	21.9	17.5	26.3	Roche Elecsys
	µU/ml = mIU/l	21.2	17.0	25.4	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	30.1	24.1	36.1	Vitros ECI
	µU/ml = mIU/l	23.6	16.0	31.2	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	21.7	17.4	26.0	Siemens Immulite 2000/2500
	µU/ml = mIU/l	19.2	15.4	23.0	Abbott Architect
	µU/ml = mIU/l	24.6	19.7	29.5	Diasorin Liaison
	µU/ml = mIU/l	21.9	17.5	26.3	Roche Modular E170
	µU/ml = mIU/l	19.7	15.8	23.6	bioMerieux VIDAS TSH3 Ultrasensitive

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Thyroid Stimulating Hormone	µU/ml = mIU/l	20.9	16.7	25.1	Beckman Access Fast TSH
	µU/ml = mIU/l	20.0	16.0	24.0	Beckman DxI800 Fast TSH
	µU/ml = mIU/l	22.1	17.7	26.5	Roche Cobas E411
	µU/ml = mIU/l	21.9	17.5	26.3	Roche Cobas 6000/8000
	µU/ml = mIU/l	21.4	17.1	25.7	Beckman DxI800 Hyper TSH
	µU/ml = mIU/l	25.8	20.6	31.0	Monobind Inc. ELISA / CLIA
	µU/ml = mIU/l	23.6	16.0	31.2	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	23.8	16.2	31.4	Siemens Centaur CP TSH3-Ultra
Tobramycin	µmol/l	10.3	8.21	12.3	Gravimetric
	µg/ml	4.80	3.84	5.76	
Total Beta hCG	mU/ml=IU/l	685	548	822	BioMerieux Vidas
	IU/ml	0.685	0.548	0.822	
	mU/ml=IU/l	698	558	838	Siemens Immulite 1000
	IU/ml	0.698	0.558	0.838	
	mU/ml=IU/l	427	342	512	Roche Cobas Core EIA
	IU/ml	0.427	0.342	0.512	
	mU/ml=IU/l	326	261	391	Beckman Access
	IU/ml	0.326	0.261	0.391	
	mU/ml=IU/l	677	542	812	Vitros ECi
	IU/ml	0.677	0.542	0.812	
	mU/ml=IU/l	355	213	497	Siemens Centaur XP/XPT/Classic
	IU/ml	0.355	0.213	0.497	
	mU/ml=IU/l	751	601	901	Siemens Immulite 2000
	IU/ml	0.751	0.601	0.901	
	mU/ml=IU/l	355	284	426	Abbott Architect
	IU/ml	0.355	0.284	0.426	
	mU/ml=IU/l	353	282	424	Diasorin Liaison
	IU/ml	0.353	0.282	0.424	
	mU/ml=IU/l	643	514	772	Siemens Dimension
	IU/ml	0.643	0.514	0.772	
	mU/ml=IU/l	336	269	403	Beckman DxI800
	IU/ml	0.336	0.269	0.403	
	mU/ml=IU/l	619	495	743	Roche STAT (Intact)
	IU/ml	0.619	0.495	0.743	
	mU/ml=IU/l	427	342	512	Roche hCG+Beta
	IU/ml	0.427	0.342	0.512	
	mU/ml=IU/l	271	217	325	Monobind Inc. ELISA / CLIA
	IU/ml	0.271	0.217	0.325	
	mU/ml=IU/l	334	267	401	Radiometer AQT90 Flex
	IU/ml	0.334	0.267	0.401	
	mU/ml=IU/l	341	273	409	Beckman Access Total BhCG (5th IS)
	IU/ml	0.341	0.273	0.409	
	mU/ml=IU/l	356	285	427	Beckman DxI Total BhCG (5th IS)
	IU/ml	0.356	0.285	0.427	
Total T3	nmol/l	6.50	4.88	8.13	BioMerieux Vidas
	ng/ml	4.23	3.18	5.28	
	ng/dl	423	318	528	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T3	nmol/l	7.40	5.55	9.25	Siemens Immulite 1000
	ng/ml	4.82	3.61	6.03	
	ng/dl	482	361	603	
	nmol/l	7.40	5.55	9.25	Roche Elecsys
	ng/ml	4.82	3.61	6.03	
	ng/dl	482	361	603	
	nmol/l	6.46	4.85	8.08	Beckman Access
	ng/ml	4.21	3.16	5.26	
	ng/dl	421	316	526	
	nmol/l	8.24	6.18	10.3	Siemens Centaur XP/XPT/Classic
	ng/ml	5.36	4.02	6.70	
	ng/dl	536	402	670	
	nmol/l	7.41	5.56	9.26	Siemens Immulite 2000/2500
	ng/ml	4.82	3.62	6.02	
	ng/dl	482	362	602	
	nmol/l	5.79	4.34	7.24	Abbott Architect
	ng/ml	3.77	2.83	4.71	
	ng/dl	377	283	471	
	nmol/l	7.78	5.84	9.73	Vitros Eci
	ng/ml	5.06	3.80	6.32	
	ng/dl	506	380	632	
	nmol/l	7.08	5.31	8.85	Diasorin Liaison
	ng/ml	4.61	3.46	5.76	
	ng/dl	461	346	576	
	nmol/l	7.40	5.55	9.25	Roche Modular E170
	ng/ml	4.82	3.61	6.03	
	ng/dl	482	361	603	
	nmol/l	6.35	4.76	7.94	Beckman Dxl800
	ng/ml	4.13	3.10	5.16	
	ng/dl	413	310	516	
	nmol/l	7.49	5.62	9.36	Roche Cobas E411
	ng/ml	4.88	3.66	6.10	
	ng/dl	488	366	610	
	nmol/l	7.26	5.45	9.08	Roche Cobas 6000/8000
	ng/ml	4.73	3.55	5.91	
	ng/dl	473	355	591	
	nmol/l	6.83	5.12	8.54	Monobind Inc. ELISA / CLIA
	ng/ml	4.45	3.33	5.57	
	ng/dl	445	333	557	
Total T4	nmol/l	238	179	298	Vitros Eci
	µg/dl	18.6	14.0	23.2	
	ng/ml	186	140	232	
	nmol/l	249	187	311	BioMerieux Vidas
	µg/dl	19.4	14.6	24.2	
	ng/ml	194	146	242	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	212	159	265	Siemens Immulite 1000
	µg/dl	16.5	12.4	20.6	
	ng/ml	165	124	206	
	nmol/l	183	137	229	Roche Elecsys
	µg/dl	14.3	10.7	17.9	
	ng/ml	143	107	179	
	nmol/l	228	171	285	Beckman Access
	µg/dl	17.8	13.3	22.3	
	ng/ml	178	133	223	
	nmol/l	207	145	269	Siemens Centaur XP/XPT/Classic
	µg/dl	16.1	11.3	20.9	
	ng/ml	161	113	209	
	nmol/l	199	149	249	Siemens Immulite 2000/2500
	µg/dl	15.5	11.6	19.4	
	ng/ml	155	116	194	
	nmol/l	221	166	276	Abbott Architect
	µg/dl	17.2	12.9	21.5	
	ng/ml	172	129	215	
	nmol/l	183	137	229	Roche Modular E170
	µg/dl	14.3	10.7	17.9	
	ng/ml	143	107	179	
	nmol/l	232	174	290	Beckman Dxl800
	µg/dl	18.1	13.6	22.6	
	ng/ml	181	136	226	
	nmol/l	190	143	238	Roche Cobas E411
	µg/dl	14.8	11.2	18.4	
	ng/ml	148	112	184	
	nmol/l	192	144	240	Roche Cobas 6000/8000
	µg/dl	15.0	11.2	18.8	
	ng/ml	150	112	188	
	nmol/l	206	144	268	Siemens Centaur CP
	µg/dl	16.1	11.3	20.9	
	ng/ml	161	113	209	
Valproic Acid	µmol/l	1045	836	1254	Behring Emit
	µg/ml	151	121	181	
	µmol/l	916	733	1099	Siemens Immulite 1000
	µg/ml	132	106	158	
	µmol/l	981	785	1177	Roche Integra
	µg/ml	142	113	171	
	µmol/l	987	790	1184	Siemens Immulite 2000/2500
	µg/ml	142	114	170	
	µmol/l	921	737	1105	Siemens Centaur XP/XPT/Classic
	µg/ml	133	106	160	
	µmol/l	1030	824	1236	Vitros
	µg/ml	149	119	179	
	µmol/l	945	756	1134	Siemens Dimension
	µg/ml	136	109	163	

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

Cat. No. IA3111 / IA3112 Lot No. 1578EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	μmol/l	938	750	1126	Abbott Architect
	μg/ml	135	108	162	
	μmol/l	786	629	943	Beckman DxC
	μg/ml	113	90.8	135	
	μmol/l	1008	806	1210	Roche Cobas 6000/8000
	μg/ml	145	116	174	
	μmol/l	960	768	1152	Beckman AU400/600/640/2700/5400
	μg/ml	139	111	167	
Vancomycin	μmol/l	1116	893	1339	Gravimetric
	μg/ml	161	129	193	
	μmol/l	9.37	7.50	11.2	Ortho Vitros Microslide Systems
	μg/ml	13.9	11.1	16.7	
	μmol/l	12.3	9.84	14.8	Abbott Architect
	μg/ml	18.3	14.6	22.0	
	μmol/l	10.4	8.32	12.5	Siemens Dimension
	μg/ml	15.5	12.4	18.6	
Vitamin B12	μmol/l	10.4	8.32	12.5	Roche Cobas 6000/8000
	μg/ml	15.5	12.4	18.6	
	μmol/l	10.8	8.62	12.9	Gravimetric
	μg/ml	16.0	12.8	19.2	
	pmol/l	670	536	804	Roche Elecsys
	pg/ml	908	726	1090	
	pmol/l	599	479	719	Beckman Access
	pg/ml	812	649	975	
	pmol/l	657	493	821	Siemens Centaur XP/XPT/Classic
	pg/ml	890	668	1112	
	pmol/l	618	494	742	Siemens Immulite 2000
	pg/ml	837	669	1005	
	pmol/l	641	513	769	Abbott Architect
	pg/ml	869	695	1043	
	pmol/l	638	510	766	Vitros ECI
	pg/ml	864	691	1037	
	pmol/l	671	537	805	Roche Modular E170
	pg/ml	909	728	1090	
	pmol/l	562	450	674	Beckman Dxl800
	pg/ml	762	610	914	
	pmol/l	673	538	808	Roche Cobas E411
	pg/ml	912	729	1095	
	pmol/l	681	545	817	Roche Cobas 6000/8000
	pg/ml	923	738	1108	
	pmol/l	651	488	814	Siemens Centaur CP
	pg/ml	882	662	1102	