

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

Cat. No. IA3111 / IA3112

Lot No. I478EC

Size: 12 x 5 ml / 12 x 5 ml

Expiry: 2017-10

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. Parathyroid Hormone (PTH) and 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 and 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.

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

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	26.5	19.9	33.1	Immunotech RIA
	ng/ml	8.77	6.59	11.0	
	nmol/l	41.8	31.4	52.3	DRG ELISA
	ng/ml	13.8	10.4	17.2	
	nmol/l	33.5	25.1	41.9	DIAsource RIA
	ng/ml	11.1	8.31	13.9	
25-OH Vitamin D	nmol/l	77.3	58.0	96.6	Diasorin Liaison
	nmol/l	101	75.8	126	Siemens Centaur XP/Classic
	nmol/l	65.0	48.8	81.3	Roche Cobas 6000/8000
	nmol/l	94.9	71.2	119	Diasorin RIA
	nmol/l	86.7	65.0	108	HPLC
	nmol/l	73.6	55.2	92.0	Abbott Architect
	nmol/l	76.2	57.2	95.3	IDS iSYS
	nmol/l	95.6	71.7	120	Tosoh AIA360
	nmol/l	78.7	59.0	98.4	BioMerieux Vidas
	nmol/l	72.2	54.2	90.3	Beckman Dxl 600/800
	nmol/l	83.9	62.9	105	Fujirebio Lumipulse G
ACTH	pmol/l	28.3	19.8	36.8	Siemens Immulite 1000
	pg/ml	129	90.3	168	
	pmol/l	23.9	17.9	29.9	Roche Elecsys
	pg/ml	109	81.4	137	
Aldosterone	pmol/l	979	734	1224	Diasorin
	pg/ml	353	265	441	
	pmol/l	1062	797	1328	DRG ELISA
	pg/ml	383	288	478	
Alphafoetoprotein	KIU/l = IU/ml	163	130	196	Abbott Architect
	ng/ml	197	157	237	
	KIU/l = IU/ml	168	134	202	BioMerieux Vidas
	ng/ml	203	162	244	
	KIU/l = IU/ml	186	147	225	Siemens Centaur XP/Classic
	ng/ml	225	178	272	
	KIU/l = IU/ml	171	137	205	Siemens Immulite 2000/2500
	ng/ml	207	166	248	
	KIU/l = IU/ml	178	142	214	Siemens Immulite 1000
	ng/ml	215	172	258	
	KIU/l = IU/ml	163	130	196	Beckman Dxl800
	ng/ml	197	157	237	
	KIU/l = IU/ml	180	144	216	Roche Elecsys
	ng/ml	218	174	262	
	KIU/l = IU/ml	191	153	229	Diasorin Liaison
	ng/ml	231	185	277	
	KIU/l = IU/ml	182	146	218	Roche Modular E170
	ng/ml	220	177	263	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Alphafoetoprotein	KIU/l = IU/ml	162	130	194	Beckman Access
	ng/ml	196	157	235	
	KIU/l = IU/ml	156	125	187	Tosoh AIA360
	ng/ml	189	151	227	
	KIU/l = IU/ml	171	137	205	Vitros ECI
	ng/ml	207	166	248	
	KIU/l = IU/ml	180	144	216	Roche Cobas 6000/8000
	ng/ml	218	174	262	
	KIU/l = IU/ml	254	203	305	CIS IRMA
	ng/ml	307	246	368	
Amikacin	KIU/l = IU/ml	186	149	223	Roche Cobas E411
	ng/ml	225	180	270	
	KIU/l = IU/ml	175	140	210	Siemens Dimension
	ng/ml	212	169	255	
	µmol/l	23.3	18.6	28.0	Roche Integra
	µg/ml	13.6	10.9	16.3	
Androstenedione	µmol/l	24.3	19.4	29.2	EMIT
	µg/ml	14.2	11.4	17.0	
	µmol/l	22.7	18.2	27.2	Roche Cobas 6000/8000
	µg/ml	13.3	10.7	15.9	
	µmol/l	24.1	19.3	28.9	Gravimetric
	µg/ml	14.1	11.3	16.9	
Beta-2-microglobulin	nmol/l	33.9	25.4	42.4	Siemens Immulite 2000
	ng/ml	9.73	7.29	12.2	
Beta-2-microglobulin	µg/ml = mg/l	5.68	4.54	6.82	Abbott AXSYM
	µg/ml = mg/l	7.96	6.37	9.55	Abbott Architect
	µg/ml = mg/l	8.44	6.75	10.1	Beckman Immage
	µg/ml = mg/l	7.78	6.22	9.34	BioMerieux Vidas
	µg/ml = mg/l	7.88	6.30	9.46	Behring Nephelometer
	µg/ml = mg/l	7.32	5.86	8.78	Roche Tinaquant
	µg/ml = mg/l	6.37	5.10	7.64	Siemens Immulite 2000/2500
	µg/ml = mg/l	5.52	4.42	6.62	Siemens Immulite 1000
	µg/ml = mg/l	7.09	5.67	8.51	Diasorin Liaison
	µg/ml = mg/l	7.48	5.98	8.98	Tosoh AIA360
	µg/ml = mg/l	7.53	6.02	9.04	Roche Cobas 6000/8000
	µg/ml = mg/l	7.34	5.87	8.81	Roche Modular E170
C-Peptide	nmol/l	1.710	1.280	2.140	Siemens Immulite 2000/2500
	ng/ml	5.16	3.86	6.46	
	nmol/l	1.900	1.430	2.380	Roche Elecsys
	ng/ml	5.74	4.32	7.16	
	nmol/l	2.080	1.560	2.600	Roche Cobas 6000/8000
	ng/ml	6.28	4.71	7.85	
	nmol/l	1.820	1.370	2.280	Siemens Immulite 1000
	ng/ml	5.49	4.14	6.84	
	nmol/l	2.370	1.780	2.960	Diasorin Liaison
	ng/ml	7.16	5.37	8.95	

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Range					
Analyte	unit	Target	low	high	methods
C-Peptide	nmol/l	2.010	1.510	2.510	Roche Cobas E411
	ng/ml	6.07	4.56	7.58	
	nmol/l	1.950	1.460	2.440	Roche Modular E170
	ng/ml	5.89	4.41	7.37	
	nmol/l	1.420	1.070	1.780	Abbott Architect
	ng/ml	4.29	3.23	5.35	
	nmol/l	1.720	1.290	2.150	Siemens Centaur XP/Classic
	ng/ml	5.19	3.89	6.49	
CA 15-3	nmol/l	1.240	0.930	1.550	Tosoh AIA360
	ng/ml	3.74	2.81	4.67	
	U/ml	92.3	73.8	111	Abbott Architect
	U/ml	75.9	60.7	91.1	BioMerieux Vidas
	U/ml	88.2	60.9	116	Siemens Centaur XP/Classic
	U/ml	87.6	70.1	105	Siemens Immulite 2000/2500
	U/ml	100	80.0	120	Siemens Immulite 1000
	U/ml	39.1	31.3	46.9	Beckman Dxl800
	U/ml	81.1	64.9	97.3	Roche Elecsys
	U/ml	85.5	68.4	103	Diasorin Liaison
	U/ml	82.6	66.1	99.0	Roche Modular E170
	U/ml	38.3	30.6	46.0	Beckman Access
	U/ml	92.2	73.8	111	Tosoh AIA360
	U/ml	72.5	58.0	87.0	Vitros ECI
	U/ml	82.1	65.7	98.5	Roche Cobas 6000/8000
CA 19-9	U/ml	81.7	65.4	98.0	Roche Cobas E411
	U/ml	509	407	611	Abbott Architect
	U/ml	217	174	260	BioMerieux Vidas
	U/ml	182	126	238	Siemens Centaur XP/Classic
	U/ml	135	108	162	Siemens Immulite 2000/2500
	U/ml	132	106	158	Beckman Dxl800
	U/ml	128	102	154	Roche Elecsys
	U/ml	197	158	236	Diasorin Liaison
	U/ml	128	102	154	Roche Modular E170
	U/ml	132	106	158	Beckman Access
	U/ml	98.3	78.6	118	Tosoh AIA360
	U/ml	278	222	334	Vitros ECI
	U/ml	504	403	605	Abbott Architect XR kit
	U/ml	128	102	154	Roche Cobas 6000/8000
	U/ml	129	103	155	Roche Cobas E411
CA125	U/ml	430	344	516	Abbott Architect
	U/ml	335	268	402	BioMerieux Vidas
	U/ml	307	212	402	Siemens Centaur XP/Classic OV Kit
	U/ml	314	217	411	Siemens Centaur XP/Classic CA125 II kit
	U/ml	310	248	372	Siemens Immulite 2000/2500
	U/ml	247	198	296	Beckman Dxl800
	U/ml	281	225	337	Roche Elecsys

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Range					
Analyte	unit	Target	low	high	methods
CA125	U/ml	433	346	520	Diasorin Liaison
	U/ml	286	229	343	Roche Modular E170
	U/ml	237	190	284	Beckman Access
	U/ml	670	536	804	Tosoh AIA360
	U/ml	304	243	365	Vitros ECI
	U/ml	288	230	346	Roche Cobas E411
	U/ml	283	226	340	Roche Cobas 6000/8000
	U/ml	200	160	240	Novatec ELISA
	U/ml	304	210	398	Siemens Centaur CP CA125 II kit
Carbamazepine	µmol/l	70.9	56.7	85.1	Abbott AXSYM
	µg/ml	16.8	13.4	20.2	
	µmol/l	70.1	56.1	84.1	Abbott Architect
	µg/ml	16.6	13.3	19.9	
	µmol/l	73.0	45.3	101	Siemens Centaur XP/Classic
	µg/ml	17.3	10.7	23.9	
	µmol/l	69.3	55.4	83.2	Siemens Dimension
	µg/ml	16.4	13.1	19.7	
	µmol/l	62.8	50.2	75.4	Siemens Immulite 2000/2500
	µg/ml	14.8	11.9	17.7	
	µmol/l	64.6	51.7	77.5	Siemens Immulite 1000
	µg/ml	15.3	12.2	18.4	
	µmol/l	78.7	63.0	94.4	HPLC
	µg/ml	18.6	14.9	22.3	
	µmol/l	73.9	59.1	88.7	Roche Integra
	µg/ml	17.5	14.0	21.0	
	µmol/l	69.1	55.3	82.9	Vitros
	µg/ml	16.3	13.1	19.5	
	µmol/l	69.2	55.4	83.0	Roche Cobas E411
	µg/ml	16.4	13.1	19.7	
	µmol/l	69.1	55.3	82.9	Roche Cobas 6000/8000
	µg/ml	16.3	13.1	19.5	
	µmol/l	67.7	54.2	81.2	Roche Modular
	µg/ml	16.0	12.8	19.2	
	µmol/l	67.5	54.0	81.0	Beckman DxC
	µg/ml	16.0	12.8	19.2	
	µmol/l	66.0	52.8	79.2	Beckman AU400/600/640/2700/5400
	µg/ml	15.6	12.5	18.7	
	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	54.9	43.9	65.9	Abbott Architect
	ng/ml = µg/l	47.3	37.8	56.8	BioMerieux Vidas
	ng/ml = µg/l	51.8	35.7	67.9	Siemens Centaur XP/Classic
	ng/ml = µg/l	39.4	31.5	47.3	CIS RIA Coated tube
	ng/ml = µg/l	65.3	52.2	78.4	Siemens Immulite 2000/2500
	ng/ml = µg/l	65.9	52.7	79.1	Siemens Immulite 1000
	ng/ml = µg/l	47.9	38.3	57.5	Beckman Dxl800

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	41.6	33.3	49.9	Roche Elecsys
	ng/ml = µg/l	49.5	39.6	59.4	Diasorin Liaison
	ng/ml = µg/l	40.5	32.4	48.6	Roche Modular E170
	ng/ml = µg/l	49.3	39.4	59.2	Beckman Access
	ng/ml = µg/l	68.3	54.6	82.0	Tosoh AIA360
	ng/ml = µg/l	48.6	38.9	58.3	Vitros ECI
	ng/ml = µg/l	40.6	32.5	48.7	Roche Cobas 6000/8000
	ng/ml = µg/l	40.1	32.1	48.1	Immunotech IRMA
	ng/ml = µg/l	41.8	33.4	50.2	Roche Cobas E411
	ng/ml = µg/l	49.6	39.7	59.5	Boditech Med Inc i-CHROMA
Cortisol	nmol/l	1139	854	1424	Abbott AXSYM
	µg/dl	41.0	30.7	51.3	
	nmol/l	838	629	1048	Abbott Architect
	µg/dl	30.2	22.6	37.8	
	nmol/l	973	730	1216	BioMerieux Vidas
	µg/dl	35.0	26.3	43.7	
	nmol/l	1064	734	1394	Siemens Centaur XP/Classic
	µg/dl	38.3	26.4	50.2	
	nmol/l	806	605	1008	CIS RIA
	µg/dl	29.0	21.8	36.2	
	nmol/l	981	736	1226	Siemens Immulite 2000/2500
	µg/dl	35.3	26.5	44.1	
	nmol/l	1047	785	1309	Siemens Immulite 1000
	µg/dl	37.7	28.3	47.1	
	nmol/l	952	714	1190	Beckman Dxl800
	µg/dl	34.3	25.7	42.9	
	nmol/l	1066	800	1333	Roche Elecsys
	µg/dl	38.4	28.8	48.0	
	nmol/l	1070	803	1338	Diasorin Liaison
	µg/dl	38.5	28.9	48.1	
	nmol/l	1065	799	1331	Roche Modular E170
	µg/dl	38.3	28.8	47.8	
	nmol/l	987	740	1234	Beckman Access
	µg/dl	35.5	26.6	44.4	
	nmol/l	1028	771	1285	Tosoh AIA360
	µg/dl	37.0	27.8	46.2	
	nmol/l	915	686	1144	Vitros ECI
	µg/dl	32.9	24.7	41.1	
	nmol/l	1061	796	1326	Roche Cobas 6000/8000
	µg/dl	38.2	28.7	47.7	
	nmol/l	1079	809	1349	Roche Cobas E411
	µg/dl	38.8	29.1	48.5	
	nmol/l	732	549	915	Boditech Med Inc i-CHROMA
	µg/dl	26.4	19.8	33.0	
DHEA-S	µmol/l	29.8	23.8	35.8	Abbott Architect
	µmol/l	25.4	20.3	30.5	Siemens Immulite 2000/2500

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Range					
Analyte	unit	Target	low	high	methods
DHEA-S	µmol/l	25.2	20.2	30.2	Siemens Immulite 1000
	µmol/l	24.6	19.7	29.5	Beckman Dxl800
	µmol/l	39.6	31.7	47.5	Roche Elecsys
	µmol/l	28.0	22.4	33.6	Roche Modular E170
	µmol/l	25.1	20.1	30.1	Beckman Access
	µmol/l	20.0	16.0	24.0	Diasorin Liaison
	µmol/l	23.5	14.1	32.9	Siemens Centaur XP/Classic
	µmol/l	37.0	29.6	44.4	Roche Cobas E411
	µmol/l	30.3	24.2	36.4	Roche Cobas 6000/8000
	µmol/l	24.0	19.2	28.8	Immunotech RIA
Digoxin	nmol/l	4.41	3.53	5.29	Abbott AXSYM
	ng/ml	3.44	2.76	4.12	
	nmol/l	4.36	3.49	5.23	Abbott Architect
	ng/ml	3.41	2.73	4.09	
	nmol/l	4.81	3.85	5.77	BioMerieux Vidas
	ng/ml	3.76	3.01	4.51	
	nmol/l	5.05	3.94	6.16	Siemens Centaur XP/Classic
	ng/ml	3.94	3.07	4.81	
	nmol/l	5.06	4.05	6.07	Siemens Dimension
	ng/ml	3.95	3.16	4.74	
	nmol/l	5.22	4.18	6.26	Siemens Immulite 2000/2500
	ng/ml	4.08	3.26	4.90	
	nmol/l	5.82	4.66	6.98	Siemens Immulite 1000
	ng/ml	4.55	3.64	5.46	
	nmol/l	5.11	4.09	6.13	Beckman Dxl800
	ng/ml	3.99	3.19	4.79	
	nmol/l	5.82	4.66	6.98	Roche Elecsys
	ng/ml	4.55	3.64	5.46	
	nmol/l	4.89	3.91	5.87	Roche Integra
	ng/ml	3.82	3.05	4.59	
	nmol/l	6.05	4.84	7.26	Roche Modular E170
	ng/ml	4.73	3.78	5.68	
	nmol/l	4.86	3.89	5.83	Vitros
	ng/ml	3.80	3.04	4.56	
	nmol/l	5.50	4.40	6.60	Roche Cobas E411
	ng/ml	4.30	3.44	5.16	
	nmol/l	5.50	4.40	6.60	Roche Cobas 6000/8000
	ng/ml	4.30	3.44	5.16	
	nmol/l	4.26	3.41	5.11	Beckman DxC
	ng/ml	3.33	2.66	4.00	
	nmol/l	5.43	4.34	6.52	Beckman AU400/600/640/2700/5400
	ng/ml	4.24	3.39	5.09	
	nmol/l	4.88	3.90	5.86	Siemens ADVIA 1200/1650/1800/2400
	ng/ml	3.81	3.05	4.57	
	nmol/l	5.12	4.10	6.14	Gravimetric
	ng/ml	4.00	3.20	4.80	

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Range					
Analyte	unit	Target	low	high	methods
Ethosuximide	µmol/l	493	395	592	Gravimetric
	µg/ml	70.0	56.0	83.9	
Ferritin	ng/ml = µg/l	352	282	422	Abbott Architect
	ng/ml = µg/l	261	209	313	BioMerieux Vidas
	ng/ml = µg/l	282	226	338	Roche Tinaquant
	ng/ml = µg/l	291	227	355	Siemens Centaur XP/Classic
	ng/ml = µg/l	280	224	336	Siemens Dimension
	ng/ml = µg/l	288	230	346	Siemens Immulite 2000/2500
	ng/ml = µg/l	249	199	299	Siemens Immulite 1000
	ng/ml = µg/l	219	175	263	Beckman Dxl800
	ng/ml = µg/l	304	243	365	Roche Elecsys
	ng/ml = µg/l	314	251	377	Diasorin Liaison
	ng/ml = µg/l	293	234	352	Roche Modular E170
	ng/ml = µg/l	215	172	258	Beckman Access
	ng/ml = µg/l	227	182	272	Tosoh AIA360
	ng/ml = µg/l	203	162	244	Vitros ECI
	ng/ml = µg/l	290	232	348	Immunotech IRMA
	ng/ml = µg/l	305	244	366	Roche Cobas E411
	ng/ml = µg/l	285	228	342	Roche Cobas 6000/8000
	ng/ml = µg/l	259	207	311	Siemens/Dade Behring Nephelometer
	ng/ml = µg/l	272	218	326	Beckman AU400/600/640/2700/5400
Folate	nmol/l	22.2	16.9	27.5	Abbott Architect
	ng/ml	9.79	7.45	12.1	
	nmol/l	46.3	27.8	64.8	Siemens Centaur XP/Classic (enhanced kit)
	ng/ml	20.4	12.2	28.6	
	nmol/l	19.9	15.1	24.7	Siemens Immulite 2000
	ng/ml	8.78	6.66	10.9	
	nmol/l	24.6	18.7	30.5	Beckman Dxl800
	ng/ml	10.8	8.25	13.4	
	nmol/l	30.1	22.9	37.3	Roche Elecsys
	ng/ml	13.3	10.1	16.5	
	nmol/l	29.4	22.3	36.5	Roche Modular E170
	ng/ml	13.0	9.83	16.2	
	nmol/l	24.8	18.8	30.8	Beckman Access
	ng/ml	10.9	8.29	13.5	
	nmol/l	13.4	10.2	16.6	Vitros ECI
	ng/ml	5.91	4.50	7.32	
	nmol/l	19.2	14.6	23.8	MP Biomedicals RIA
	ng/ml	8.47	6.44	10.5	
	nmol/l	30.8	23.4	38.2	Roche Cobas E411
	ng/ml	13.6	10.3	16.9	
	nmol/l	29.6	22.5	36.7	Roche Cobas 6000/8000
	ng/ml	13.1	9.92	16.3	
	nmol/l	14.8	11.2	18.4	Siemens Dimension
	ng/ml	6.53	4.94	8.12	
	nmol/l	60.0	36.0	84.0	Siemens Centaur CP (enhanced kit)
	ng/ml	26.5	15.9	37.1	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	28.5	21.4	35.6	Abbott Architect
	ng/dl	1.85	1.39	2.31	
	pg/ml	18.6	13.9	23.3	
	pmol/l	27.5	20.6	34.4	BioMerieux Vidas
	ng/dl	1.79	1.34	2.24	
	pg/ml	17.9	13.4	22.4	
	pmol/l	25.7	15.4	36.0	Siemens Centaur XP/Classic
	ng/dl	1.67	1.00	2.34	
	pg/ml	16.7	10.0	23.4	
	pmol/l	19.6	14.7	24.5	Siemens Immulite 2000/2500
	ng/dl	1.27	0.956	1.58	
	pg/ml	12.8	9.57	16.0	
	pmol/l	19.1	14.3	23.9	Siemens Immulite 1000
	ng/dl	1.24	0.930	1.55	
	pg/ml	12.4	9.31	15.5	
	pmol/l	23.3	17.5	29.1	Beckman Dxl800
	ng/dl	1.51	1.14	1.88	
	pg/ml	15.2	11.4	19.0	
	pmol/l	33.6	25.2	42.0	Roche Elecsys
	ng/dl	2.18	1.64	2.72	
	pg/ml	21.9	16.4	27.4	
	pmol/l	34.6	26.0	43.3	Roche Modular E170
	ng/dl	2.25	1.69	2.81	
	pg/ml	22.5	16.9	28.1	
	pmol/l	24.9	18.7	31.1	Beckman Access
	ng/dl	1.62	1.22	2.02	
	pg/ml	16.2	12.2	20.2	
	pmol/l	46.0	34.5	57.5	Tosoh AIA360
	ng/dl	2.99	2.24	3.74	
	pg/ml	29.9	22.5	37.3	
	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	33.7	25.3	42.1	Roche Cobas E411
	ng/dl	2.19	1.64	2.74	
	pg/ml	21.9	16.5	27.3	
	pmol/l	34.1	25.6	42.6	Roche Cobas 6000/8000
	ng/dl	2.22	1.66	2.78	
	pg/ml	22.2	16.7	27.7	
	pmol/l	37.7	28.3	47.1	Siemens Dimension Vista LOCI
	ng/dl	2.45	1.84	3.06	
	pg/ml	24.5	18.4	30.6	
Free T4	pmol/l	58.4	43.8	73.0	Abbott Architect
	ng/dl	4.56	3.42	5.70	
	pg/ml	45.6	34.2	57.0	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	79.3	59.5	99.0	BioMerieux Vidas
	ng/dl	6.19	4.64	7.74	
	pg/ml	61.9	46.4	77.4	
	pmol/l	50.4	37.8	63.0	Siemens Centaur XP/Classic
	ng/dl	3.93	2.95	4.91	
	pg/ml	39.3	29.5	49.1	
	pmol/l	61.6	46.2	77.0	CIS RIA Coated tube
	ng/dl	4.80	3.60	6.00	
	pg/ml	48.0	36.0	60.0	
	pmol/l	69.7	52.3	87.1	Siemens Immulite 2000/2500
	ng/dl	5.44	4.08	6.80	
	pg/ml	54.4	40.8	68.0	
	pmol/l	68.4	51.3	85.5	Siemens Immulite 1000
	ng/dl	5.34	4.00	6.68	
	pg/ml	53.4	40.0	66.8	
	pmol/l	58.2	43.7	72.8	Beckman Dxl800
	ng/dl	4.54	3.41	5.67	
	pg/ml	45.4	34.1	56.7	
	pmol/l	76.2	57.2	95.3	Roche Elecsys
	ng/dl	5.94	4.46	7.42	
	pg/ml	59.4	44.6	74.2	
	pmol/l	98.9	74.2	124	Diasorin Liaison
	ng/dl	7.71	5.79	9.63	
	pg/ml	77.1	57.9	96.3	
	pmol/l	76.2	57.2	95.3	Roche Modular E170
	ng/dl	5.94	4.46	7.42	
	pg/ml	59.4	44.6	74.2	
	pmol/l	53.7	40.3	67.1	Beckman Access
	ng/dl	4.19	3.14	5.24	
	pg/ml	41.9	31.4	52.4	
	pmol/l	73.7	55.3	92.1	Tosoh AIA360
	ng/dl	5.75	4.31	7.19	
	pg/ml	57.5	43.1	71.9	
	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	76.8	57.6	96.0	Roche Cobas 6000/8000
	ng/dl	5.99	4.49	7.49	
	pg/ml	59.9	44.9	74.9	
	pmol/l	53.2	39.9	66.5	Immunotech IRMA
	ng/dl	4.15	3.11	5.19	
	pg/ml	41.5	31.1	51.9	
	pmol/l	77.4	58.1	96.8	Roche Cobas E411
	ng/dl	6.04	4.53	7.55	
	pg/ml	60.4	45.3	75.5	
	pmol/l	84.7	63.5	106	Siemens Dimension Vista LOCI
	ng/dl	6.61	4.95	8.27	
	pg/ml	66.1	49.5	82.7	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	67.5	50.6	84.4	Adaltis EIAgen
	ng/dl	5.27	3.95	6.59	
	pg/ml	52.7	39.5	65.9	
FSH	mU/ml	39.3	31.4	47.2	Abbott Architect
	mU/ml	58.0	46.4	69.6	BioMerieux Vidas
	mU/ml	55.3	43.1	67.5	Siemens Centaur XP/Classic
	mU/ml	45.2	36.2	54.2	Siemens Immulite 2000/2500
	mU/ml	45.6	36.5	54.7	Siemens Immulite 1000
	mU/ml	43.1	34.5	51.7	Beckman Dxl800
	mU/ml	46.6	37.3	55.9	Roche/BM Elecsys
	mU/ml	54.2	43.4	65.0	Diasorin Liaison
	mU/ml	45.7	36.6	54.8	Roche Modular E170
	mU/ml	42.9	34.3	51.5	Beckman Access
	mU/ml	40.7	32.6	48.8	Tosoh AIA360
	mU/ml	38.0	30.4	45.6	Vitros ECI
	mU/ml	47.8	38.2	57.4	Roche Cobas E411
	mU/ml	45.6	36.5	54.7	Roche Cobas 6000/8000
Gentamicin	µmol/l	10.3	8.24	12.4	Roche Integra
	µg/ml	4.92	3.94	5.90	
	µmol/l	11.3	8.58	14.0	Siemens Centaur XP/Classic
	µg/ml	5.40	4.10	6.70	
	µmol/l	10.9	8.72	13.1	Siemens Dimension Vista
	µg/ml	5.21	4.17	6.25	
	µmol/l	8.34	6.67	10.0	Roche Cobas 6000/8000
	µg/ml	3.99	3.19	4.79	
Growth Hormone (GH)	µmol/l	11.7	9.38	14.1	Gravimetric
	µg/ml	5.60	4.48	6.74	
	µU/ml	49.3	39.4	59.2	Siemens Immulite 2000/2500
	ng/ml	16.4	13.1	19.7	
	µU/ml	50.6	40.5	60.7	Siemens Immulite 1000
	ng/ml	16.8	13.5	20.1	
	µU/ml	42.3	33.8	50.8	Beckman Dxl800
	ng/ml	14.1	11.3	16.9	
	µU/ml	37.2	29.8	44.6	Roche Modular E170
	ng/ml	12.4	9.92	14.9	
	µU/ml	44.2	35.4	53.0	Beckman Access
	ng/ml	14.7	11.8	17.6	
	µU/ml	49.5	39.6	59.4	Diasorin Liaison
	ng/ml	16.5	13.2	19.8	
	µU/ml	38.3	30.6	46.0	Roche Cobas E411
	ng/ml	12.8	10.2	15.4	
	µU/ml	39.5	31.6	47.4	Roche Cobas 6000/8000
	ng/ml	13.2	10.5	15.9	
	µU/ml	47.0	37.6	56.4	IDS iSYS
	ng/ml	15.7	12.5	18.9	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Immunoglobulin E	KIU/l = IU/ml	394	315	473	Abbott Architect
	KIU/l = IU/ml	351	281	421	BioMerieux Vidas
	KIU/l = IU/ml	387	232	542	Siemens Centaur XP/Classic
	KIU/l = IU/ml	434	347	521	Siemens Immulite 2000/2500
	KIU/l = IU/ml	432	346	518	Siemens Immulite 1000
	KIU/l = IU/ml	388	310	466	Beckman Dxl800
	KIU/l = IU/ml	413	330	496	Roche Elecsys
	KIU/l = IU/ml	365	292	438	Pharmacia Unicap
	KIU/l = IU/ml	431	345	517	Roche Modular E170
	KIU/l = IU/ml	385	308	462	Beckman Access
	KIU/l = IU/ml	406	325	487	Tosoh AIA360
	KIU/l = IU/ml	421	337	505	Roche Cobas E411
	KIU/l = IU/ml	427	342	512	Roche Cobas 6000/8000
	KIU/l = IU/ml	383	306	460	Monobind Inc. ELISA / CLIA
Insulin	mU/l	36.9	27.7	46.1	Siemens Centaur XP/Classic
	mU/l	8.26	6.20	10.3	Siemens Immulite 1000
	mU/l	26.6	20.0	33.3	Roche Modular E170
	mU/l	26.4	19.8	33.0	Roche Elecsys
	mU/l	26.3	19.7	32.9	Beckman Access
	mU/l	26.2	19.7	32.8	Abbott Architect
	mU/l	32.4	24.3	40.5	CIS RIA Coated tube
	mU/l	34.7	26.0	43.4	Tosoh AIA360
	mU/l	26.7	20.0	33.4	Roche Cobas E411
	mU/l	26.3	19.7	32.9	Beckman Dxl 600/800
	mU/l	31.7	23.8	39.6	Diasorin Liaison
	mU/l	26.9	20.2	33.6	Roche Cobas 6000/8000
Luteinising Hormone (LH)	mU/ml	50.9	40.7	61.1	Abbott Architect
	mU/ml	58.5	46.8	70.2	BioMerieux Vidas
	mU/ml	62.2	47.9	76.5	Siemens Centaur XP/Classic
	mU/ml	68.2	54.6	81.8	Siemens Immulite 2000
	mU/ml	71.2	57.0	85.4	Siemens Immulite 1000
	mU/ml	55.7	44.6	66.8	Beckman Dxl800
	mU/ml	62.4	49.9	74.9	Roche Elecsys
	mU/ml	89.8	71.8	108	Diasorin Liaison
	mU/ml	62.4	49.9	74.9	Roche Modular E170
	mU/ml	53.6	42.9	64.3	Beckman Access
	mU/ml	61.9	49.5	74.3	Tosoh AIA360
	mU/ml	67.9	54.3	81.5	Vitros ECI
	mU/ml	62.6	50.1	75.1	Roche Cobas E411
	mU/ml	62.5	50.0	75.0	Roche Cobas 6000/8000
Oestradiol	pmol/l	1131	905	1357	Abbott Architect
	pg/ml	308	246	370	
	pmol/l	2161	1729	2593	BioMerieux Vidas
	pg/ml	588	470	706	
	pmol/l	1988	1233	2743	Siemens Centaur XP/Classic
	pg/ml	541	335	747	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	1887	1510	2264	Siemens Immulite 2000/2500
	pg/ml	513	411	615	
	pmol/l	2020	1616	2424	Siemens Immulite 1000
	pg/ml	549	440	658	
	pmol/l	1700	1360	2040	Beckman Dxl800
	pg/ml	462	370	554	
	pmol/l	1518	1214	1822	Roche Elecsys
	pg/ml	413	330	496	
	pmol/l	1493	1194	1792	Roche Modular E170
	pg/ml	406	325	487	
	pmol/l	1861	1489	2233	Beckman Access
	pg/ml	506	405	607	
	pmol/l	1365	1092	1638	Tosoh (E2)
	pg/ml	371	297	445	
	pmol/l	1880	1504	2256	Vitros ECI
	pg/ml	511	409	613	
	pmol/l	1489	1191	1787	Roche Cobas 6000/8000
	pg/ml	405	324	486	
	pmol/l	1520	1216	1824	Roche Cobas E411
	pg/ml	413	331	495	
Paracetamol	pmol/l	1964	1218	2710	Siemens Centaur XP/Classic Enhanced (eE2)
	pg/ml	534	331	737	
	pmol/l	2078	1288	2868	Siemens Centaur XP/Classic E26 III
	pg/ml	565	350	780	
	pmol/l	1367	1094	1640	Tosoh (iE2-hsE2)
	pg/ml	372	298	446	
	pmol/l	480	384	576	Immunotech RIA Ultra-sensitive
	pg/ml	131	104	158	
	mmol/l	0.533	0.426	0.640	Abbott AXSYM
	mg/l	80.6	64.5	96.7	
Parathyroid Hormone (PTH)	mmol/l	0.444	0.355	0.533	Roche Integra
	mg/l	67.2	53.7	80.7	
	mmol/l	0.610	0.488	0.732	Vitros
	mg/l	92.3	73.8	111	
	mmol/l	0.478	0.382	0.574	Abbott Architect
	mg/l	72.3	57.8	86.8	
	mmol/l	0.529	0.420	0.630	Gravimetric
	mg/l	80.0	63.5	95.3	
	pmol/l	14.3	10.7	17.9	Roche Modular E170 PTH (1-84)
	pg/ml	136	102	170	
Parathyroid Hormone (PTH)	pmol/l	25.1	18.8	31.4	Siemens Centaur XP/Classic
	pg/ml	238	179	298	
	pmol/l	23.3	17.5	29.1	Siemens Immulite 2000
	pg/ml	221	166	276	
	pmol/l	30.0	22.5	37.5	Abbott Architect
	pg/ml	285	214	356	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Parathyroid Hormone (PTH)	pmol/l	17.6	13.2	22.0	Beckman DxI800
	pg/ml	167	125	209	
	pmol/l	15.5	11.6	19.4	Roche Elecsys PTH/PTH STAT
	pg/ml	147	110	184	
	pmol/l	16.1	12.1	20.1	Roche Cobas 4000/e411 PTH/PTH STAT
	pg/ml	153	115	191	
	pmol/l	14.9	11.2	18.6	Roche Cobas 6000/8000 PTH/PTH STAT
	pg/ml	142	106	177	
Phenobarbital	pmol/l	14.1	10.6	17.6	Roche Modular E170 PTH/PTH STAT
	pg/ml	134	101	167	
	pmol/l	21.3	16.0	26.6	Siemens Immulite 1000
	pg/ml	202	152	253	
	µmol/l	118	94.4	142	Abbott AXSYM
	µg/ml	27.4	21.9	32.9	
	µmol/l	124	99.0	149	Abbott Architect
	µg/ml	28.8	23.0	34.6	
	µmol/l	123	98.4	148	Roche Cobas 6000/8000
	µg/ml	28.5	22.8	34.2	
	µmol/l	123	98.4	148	Siemens Immulite 2000/2500
	µg/ml	28.5	22.8	34.2	
	µmol/l	127	102	152	Roche Modular P-D
	µg/ml	29.5	23.7	35.3	
	µmol/l	120	96.0	144	Beckman AU400/600/640/2700/5400
	µg/ml	27.8	22.3	33.3	
	µmol/l	132	96.4	168	Siemens Centaur XP/Classic
	µg/ml	30.6	22.3	38.9	
Phenytoin	µmol/l	117	93.6	140	Roche Integra
	µg/ml	27.1	21.7	32.5	
	µmol/l	126	101	151	Siemens Immulite 1000
	µg/ml	29.2	23.4	35.0	
	µmol/l	114	91.2	137	Beckman DxC
	µg/ml	26.4	21.2	31.6	
	µmol/l	121	96.6	145	Gravimetric
	µg/ml	28.0	22.4	33.6	
	µmol/l	93.8	75.0	113	Abbott AXSYM
	µg/ml	23.7	18.9	28.5	
	µmol/l	92.7	74.2	111	Abbott Architect
	µg/ml	23.4	18.7	28.1	
	µmol/l	113	88.1	138	Siemens Centaur XP/Classic
	µg/ml	28.5	22.2	34.8	
	µmol/l	102	81.6	122	Siemens Dimension
	µg/ml	25.8	20.6	31.0	
	µmol/l	86.3	69.0	104	Siemens Immulite 2000/2500
	µg/ml	21.8	17.4	26.2	
	µmol/l	93.1	74.5	112	Siemens Immulite 1000
	µg/ml	23.5	18.8	28.2	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Phenytoin	µmol/l	92.3	73.8	111	Roche Integra
	µg/ml	23.3	18.6	28.0	
	µmol/l	89.2	71.4	107	Vitros
	µg/ml	22.5	18.0	27.0	
	µmol/l	95.2	76.2	114	Roche Modular P-D
	µg/ml	24.0	19.2	28.8	
	µmol/l	89.5	71.6	107	Roche Cobas E411
	µg/ml	22.6	18.1	27.1	
	µmol/l	94.0	75.2	113	Roche Cobas 6000/8000
	µg/ml	23.7	19.0	28.4	
	µmol/l	91.6	73.3	110	Beckman DxC
	µg/ml	23.1	18.5	27.7	
Primidone	µmol/l	99.8	79.8	120	Gravimetric
	µg/ml	25.2	20.1	30.3	
Primidone	µmol/l	32.7	26.2	39.2	Gravimetric
	µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	107	85.6	128	Abbott Architect
	ng/ml	33.5	26.8	40.2	
	nmol/l	164	131	197	BioMerieux Vidas
	ng/ml	51.3	41.0	61.6	
	nmol/l	85.4	60.6	110	Siemens Centaur XP/Classic
	ng/ml	26.7	19.0	34.4	
	nmol/l	130	104	156	CIS RIA Coated tube
	ng/ml	40.7	32.6	48.8	
	nmol/l	86.1	68.9	103	Siemens Immulite 2000/2500
	ng/ml	26.9	21.6	32.2	
	nmol/l	91.9	73.5	110	Siemens Immulite 1000
	ng/ml	28.8	23.0	34.6	
	nmol/l	115	92.0	138	Beckman Dxl Prog Cal 33555
	ng/ml	36.0	28.8	43.2	
	nmol/l	133	106	160	Roche Elecsys
	ng/ml	41.6	33.2	50.0	
	nmol/l	129	103	155	Roche Modular E170
	ng/ml	40.4	32.2	48.6	
	nmol/l	118	94.4	142	Beckman Access Prog Cal 33555
	ng/ml	36.9	29.5	44.3	
	nmol/l	127	102	152	Tosoh AIA360
	ng/ml	39.8	31.9	47.7	
	nmol/l	123	98.4	148	Vitros ECi
	ng/ml	38.5	30.8	46.2	
	nmol/l	133	106	160	Roche Cobas E411
	ng/ml	41.6	33.2	50.0	
	nmol/l	131	105	157	Roche Cobas 6000/8000
	ng/ml	41.0	32.9	49.1	
	nmol/l	86.1	68.9	103	Diasorin Liaison
	ng/ml	26.9	21.6	32.2	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Progesterone	nmol/l	107	85.6	128	Beckman Dxl Prog DE Cal A80773
	ng/ml	33.5	26.8	40.2	
Prolactin	µU/ml	1191	953	1429	Abbott AXSYM
	µU/ml	1042	834	1250	Abbott Architect
	µU/ml	540	432	648	BioMerieux Vidas
	µU/ml	791	593	989	Siemens Centaur XP/Classic
	µU/ml	1112	890	1334	Siemens Immulite 2000/2500
	µU/ml	1190	952	1428	Siemens Immulite 1000
	µU/ml	671	537	805	Beckman Dxl800
	µU/ml	1223	978	1468	Roche Elecsys
	µU/ml	991	793	1189	Diasorin Liaison
	µU/ml	1232	986	1478	Roche Modular E170
	µU/ml	706	565	847	Beckman Access
	µU/ml	161	129	193	Tosoh AIA360
	µU/ml	633	506	760	Vitros ECI
	µU/ml	1245	996	1494	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	923	738	1108	Immunotech IRMA
	µU/ml	1291	1033	1549	Roche Cobas E411
	µU/ml	1250	1000	1500	Roche Cobas 6000/8000
	µU/ml	1202	962	1442	Adaltis EIAgen
	µU/ml	1037	830	1244	Abbott Architect restandardised
PSA Free	ng/ml = µg/l	18.3	13.7	22.9	Abbott Architect
	ng/ml = µg/l	25.0	18.8	31.3	BioMerieux Vidas
	ng/ml = µg/l	18.5	13.9	23.1	Siemens Centaur XP/Classic
	ng/ml = µg/l	16.4	12.3	20.5	Siemens Dimension
	ng/ml = µg/l	15.9	11.9	19.9	Siemens Immulite 2000/2500
	ng/ml = µg/l	16.6	12.5	20.8	Siemens Immulite 1000
	ng/ml = µg/l	23.2	17.4	29.0	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	18.3	13.7	22.9	Roche Elecsys
	ng/ml = µg/l	9.23	6.92	11.5	Diasorin Liaison
	ng/ml = µg/l	17.6	13.2	22.0	Roche Modular E170
	ng/ml = µg/l	23.5	17.6	29.4	Beckman Access standardised to Hybritech
	ng/ml = µg/l	14.7	11.0	18.4	Tosoh AIA360
	ng/ml = µg/l	18.0	13.5	22.5	Roche Cobas E411
	ng/ml = µg/l	17.7	13.3	22.1	Roche Cobas 6000/8000
	ng/ml = µg/l	12.6	9.45	15.8	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	18.1	13.6	22.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	18.7	14.0	23.4	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	15.3	11.5	19.1	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	14.2	10.7	17.8	Fujirebio Lumipulse G
PSA Total	ng/ml = µg/l	22.0	16.5	27.5	Abbott Architect
	ng/ml = µg/l	21.5	16.1	26.9	BioMerieux Vidas
	ng/ml = µg/l	21.6	16.2	27.0	bioMerieux VIDAS TPSA
	ng/ml = µg/l	20.7	15.5	25.9	Siemens Centaur XP/Classic
	ng/ml = µg/l	18.0	13.5	22.5	Siemens Immulite 2000/2500 1st generation

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
PSA Total	ng/ml = µg/l	18.1	13.6	22.6	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	19.7	14.8	24.6	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	17.7	13.3	22.1	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	24.0	18.0	30.0	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	20.3	15.2	25.4	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	25.6	19.2	32.0	Roche Elecsys
	ng/ml = µg/l	11.9	8.93	14.9	Diasorin Liaison
	ng/ml = µg/l	25.8	19.4	32.3	Roche Modular E170
	ng/ml = µg/l	24.4	18.3	30.5	Beckman Access standardised to Hybritech
	ng/ml = µg/l	23.5	17.6	29.4	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	15.3	11.5	19.1	Tosoh AIA360
	ng/ml = µg/l	25.4	19.1	31.8	Vitros Eci
	ng/ml = µg/l	22.0	16.5	27.5	CIS RIA Coated tube
	ng/ml = µg/l	25.9	19.4	32.4	Roche Cobas E411
	ng/ml = µg/l	26.1	19.6	32.6	Roche Cobas 6000/8000
	ng/ml = µg/l	19.3	14.5	24.1	Fujirebio Lumipulse G
	ng/ml = µg/l	25.5	19.1	31.9	Ortho Vitros 3600/5600/ECi PSA II
Salicylic Acid	mmol/l	2.70	2.16	3.24	Roche Integra
	mg/dl	37.3	29.8	44.8	
	mmol/l	2.85	2.28	3.42	Beckman DxC
	mg/dl	39.4	31.5	47.3	
	mmol/l	2.88	2.30	3.46	Gravimetric
SHBG	mg/dl	39.8	31.8	47.8	
	nmol/l	32.7	26.2	39.2	Beckman Dxl800
	nmol/l	49.0	39.2	58.8	Siemens Centaur XP/Classic
	nmol/l	34.7	27.8	41.6	Siemens Immulite 2000/2500
	nmol/l	35.0	28.0	42.0	Roche Elecsys
	nmol/l	33.9	27.1	40.7	Roche Modular E170
	nmol/l	41.0	32.8	49.2	Abbott Architect
	nmol/l	35.4	28.3	42.5	Roche Cobas E411
	nmol/l	34.6	27.7	41.5	Roche Cobas 6000/8000
T Uptake	nmol/l	34.9	27.9	41.9	Siemens Immulite 1000
	%U	43.7	35.8	51.6	Siemens Immulite 2000
Testosterone	nmol/l	28.1	22.5	33.7	Abbott Architect
	ng/ml	8.09	6.48	9.70	
	ng/dl	809	648	970	
	nmol/l	25.1	18.3	31.9	Siemens Centaur XP/Classic
	ng/ml	7.23	5.28	9.18	
	ng/dl	723	528	918	
	nmol/l	26.3	21.0	31.6	CIS RIA Coated tube
	ng/ml	7.57	6.05	9.09	
	ng/dl	757	605	909	
	nmol/l	35.3	28.2	42.4	Siemens Immulite 2000/2500
	ng/ml	10.2	8.12	12.3	
	ng/dl	1017	812	1222	
	nmol/l	49.7	39.8	59.6	Siemens Immulite 1000
	ng/ml	14.3	11.5	17.1	
	ng/dl	1431	1146	1716	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Testosterone	nmol/l	21.4	17.1	25.7	Beckman DxI800
	ng/ml	6.16	4.92	7.40	
	ng/dl	616	492	740	
	nmol/l	23.6	18.9	28.3	Beckman Access
	ng/ml	6.80	5.44	8.16	
	ng/dl	680	544	816	
	nmol/l	40.8	32.6	49.0	Tosoh AIA360
	ng/ml	11.8	9.39	14.2	
	ng/dl	1175	939	1411	
	nmol/l	39.5	31.6	47.4	Vitros ECI
	ng/ml	11.4	9.10	13.7	
	ng/dl	1138	910	1366	
	nmol/l	27.3	21.8	32.8	Roche Cobas 6000 Test 2
	ng/ml	7.86	6.28	9.44	
	ng/dl	786	628	944	
	nmol/l	27.9	22.3	33.5	Roche Elecsys Test II
	ng/ml	8.04	6.42	9.66	
	ng/dl	804	642	966	
	nmol/l	27.2	21.8	32.6	Roche Modular E170 Test II
	ng/ml	7.83	6.28	9.38	
	ng/dl	783	628	938	
	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	27.5	22.0	33.0	Abbott Architect 2nd Generation
	ng/ml	7.92	6.34	9.50	
	ng/dl	792	634	950	
	nmol/l	21.4	17.1	25.7	BioMerieux Vidas Testosterone II
	ng/ml	6.16	4.92	7.40	
	ng/dl	616	492	740	
Theophylline	µmol/l	166	133	199	Siemens Centaur XP/Classic
	µg/ml	29.9	24.0	35.8	
	µmol/l	152	122	182	Siemens Dimension
	µg/ml	27.4	22.0	32.8	
	µmol/l	163	130	196	Roche Integra
	µg/ml	29.4	23.4	35.4	
	µmol/l	198	158	238	Vitros
	µg/ml	35.7	28.5	42.9	
	µmol/l	152	122	182	Abbott Architect
	µg/ml	27.4	22.0	32.8	
	µmol/l	160	128	192	Roche Cobas 6000/8000
	µg/ml	28.8	23.1	34.5	
	µmol/l	155	124	186	Beckman DxC
	µg/ml	27.9	22.3	33.5	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Theophylline	µmol/l	167	133	200	Gravimetric
	µg/ml	30.0	24.0	36.0	
Thyroglobulin	ng/ml	35.6	26.7	44.5	Siemens Immulite 1000
	ng/ml	34.4	25.8	43.0	Siemens Immulite 2000
	ng/ml	57.8	43.4	72.3	Roche Elecsys
	ng/ml	58.3	43.7	72.9	Roche Modular E170
	ng/ml	60.1	45.1	75.1	Beckman Dxl800
	ng/ml	61.3	46.0	76.6	Roche Cobas E411
	ng/ml	27.0	20.3	33.8	Diesse Chorus
	ng/ml	58.3	43.7	72.9	Roche Cobas 6000/8000
	ng/ml	58.2	43.7	72.8	Beckman Access
	ng/ml	63.2	47.4	79.0	Tosoh AIA360
Thyroid Stimulating Hormone	µU/ml = mIU/l	16.1	12.9	19.3	Abbott Architect
	µU/ml = mIU/l	18.5	14.8	22.2	bioMerieux VIDAS TSH
	µU/ml = mIU/l	15.5	12.4	18.6	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	18.5	12.6	24.4	Siemens Centaur XP/Classic
	µU/ml = mIU/l	18.3	14.6	22.0	CIS IRMA
	µU/ml = mIU/l	18.0	12.2	23.8	Siemens Centaur XP/Classic 3rd Generation
	µU/ml = mIU/l	15.0	12.0	18.0	Siemens Dimension
	µU/ml = mIU/l	17.0	13.6	20.4	Siemens Immulite 2000/2500
	µU/ml = mIU/l	16.9	13.5	20.3	Siemens Immulite 1000
	µU/ml = mIU/l	16.0	12.8	19.2	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	16.0	12.8	19.2	Beckman Dxl800
	µU/ml = mIU/l	16.0	12.8	19.2	Roche Elecsys
	µU/ml = mIU/l	19.7	15.8	23.6	Diasorin Liaison
	µU/ml = mIU/l	15.9	12.7	19.1	Roche Modular E170
	µU/ml = mIU/l	15.2	12.2	18.2	Beckman Access Fast TSH
	µU/ml = mIU/l	16.8	13.4	20.2	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	16.3	13.0	19.6	Tosoh AIA360
	µU/ml = mIU/l	22.1	17.7	26.5	Vitros ECi
	µU/ml = mIU/l	18.0	14.4	21.6	Immunotech IRMA
	µU/ml = mIU/l	16.2	13.0	19.4	Roche Cobas E411
	µU/ml = mIU/l	15.7	12.6	18.8	Roche Cobas 6000/8000
	µU/ml = mIU/l	16.4	13.1	19.7	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	18.0	14.4	21.6	Monobind Inc. ELISA / CLIA
	µU/ml = mIU/l	15.1	12.1	18.1	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	17.0	11.6	22.4	Siemens Centaur XP/Classic TSH3-Ultra
	µU/ml = mIU/l	17.4	13.9	20.9	Adaltis EIAgen
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	240	192	288	Abbott Architect
	IU/ml	0.240	0.192	0.288	
	mU/ml=IU/l	465	372	558	BioMerieux Vidas
	IU/ml	0.465	0.372	0.558	
	mU/ml=IU/l	234	140	328	Siemens Centaur XP/Classic
	IU/ml	0.234	0.140	0.328	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Total Beta hCG	mU/ml=IU/l	415	332	498	Siemens Dimension
	IU/ml	0.415	0.332	0.498	
	mU/ml=IU/l	497	398	596	Siemens Immulite 2000
	IU/ml	0.497	0.398	0.596	
	mU/ml=IU/l	466	373	559	Siemens Immulite 1000
	IU/ml	0.466	0.373	0.559	
	mU/ml=IU/l	224	179	269	Beckman Dxl800
	IU/ml	0.224	0.179	0.269	
	mU/ml=IU/l	230	184	276	Diasorin Liaison
	IU/ml	0.230	0.184	0.276	
	mU/ml=IU/l	272	218	326	Roche Cobas Core EIA
	IU/ml	0.272	0.218	0.326	
	mU/ml=IU/l	208	166	250	Beckman Access
	IU/ml	0.208	0.166	0.250	
	mU/ml=IU/l	427	342	512	Tosoh AIA360
	IU/ml	0.427	0.342	0.512	
	mU/ml=IU/l	435	348	522	Vitros ECI
	IU/ml	0.435	0.348	0.522	
	mU/ml=IU/l	372	298	446	Roche STAT (Intact)
	IU/ml	0.372	0.298	0.446	
	mU/ml=IU/l	271	217	325	Roche hCG+Beta
	IU/ml	0.271	0.217	0.325	
	mU/ml=IU/l	230	184	276	Radiometer AQT90 Flex
	IU/ml	0.230	0.184	0.276	
	mU/ml=IU/l	228	182	274	Beckman Access Total BhCG (5th IS)
	IU/ml	0.228	0.182	0.274	
	mU/ml=IU/l	237	190	284	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.237	0.190	0.284	
Total T3	nmol/l	5.74	4.31	7.18	Abbott Architect
	ng/ml	3.74	2.81	4.67	
	ng/dl	374	281	467	
	nmol/l	7.12	5.34	8.90	BioMerieux Vidas
	ng/ml	4.64	3.48	5.80	
	ng/dl	464	348	580	
	nmol/l	10.6	7.95	13.3	Siemens Centaur XP/Classic
	ng/ml	6.90	5.18	8.62	
	ng/dl	690	518	862	
	nmol/l	7.02	5.27	8.78	Siemens Immulite 2000/2500
	ng/ml	4.57	3.43	5.71	
	ng/dl	457	343	571	
	nmol/l	7.23	5.42	9.04	Siemens Immulite 1000
	ng/ml	4.71	3.53	5.89	
	ng/dl	471	353	589	
	nmol/l	6.73	5.05	8.41	Beckman Dxl800
	ng/ml	4.38	3.29	5.47	
	ng/dl	438	329	547	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Total T3	nmol/l	7.44	5.58	9.30	Roche Elecsys
	ng/ml	4.84	3.63	6.05	
	ng/dl	484	363	605	
	nmol/l	7.06	5.30	8.83	Diasorin Liaison
	ng/ml	4.60	3.45	5.75	
	ng/dl	460	345	575	
	nmol/l	7.16	5.37	8.95	Roche Modular E170
	ng/ml	4.66	3.50	5.82	
	ng/dl	466	350	582	
	nmol/l	6.39	4.79	7.99	Beckman Access
	ng/ml	4.16	3.12	5.20	
	ng/dl	416	312	520	
	nmol/l	6.86	5.15	8.58	Tosoh AIA360
	ng/ml	4.47	3.35	5.59	
	ng/dl	447	335	559	
	nmol/l	8.58	6.44	10.7	Vitros ECI
	ng/ml	5.59	4.19	6.99	
	ng/dl	559	419	699	
	nmol/l	5.54	4.16	6.93	CIS RIA Coated tube
	ng/ml	3.61	2.71	4.51	
	ng/dl	361	271	451	
	nmol/l	7.39	5.54	9.24	Roche Cobas E411
	ng/ml	4.81	3.61	6.01	
	ng/dl	481	361	601	
	nmol/l	7.07	5.30	8.84	Roche Cobas 6000/8000
	ng/ml	4.60	3.45	5.75	
	ng/dl	460	345	575	
	nmol/l	7.04	5.28	8.80	Monobind Inc. ELISA / CLIA
	ng/ml	4.58	3.44	5.72	
	ng/dl	458	344	572	
Total T4	nmol/l	224	168	280	Abbott Architect
	µg/dl	17.5	13.1	21.9	
	ng/ml	175	131	219	
	nmol/l	221	166	276	BioMerieux Vidas
	µg/dl	17.2	12.9	21.5	
	ng/ml	172	129	215	
	nmol/l	216	151	281	Siemens Centaur XP/Classic
	µg/dl	16.8	11.8	21.8	
	ng/ml	168	118	218	
	nmol/l	199	149	249	Siemens Immulite 2000/2500
	µg/dl	15.5	11.6	19.4	
	ng/ml	155	116	194	
	nmol/l	212	159	265	Siemens Immulite 1000
	µg/dl	16.5	12.4	20.6	
	ng/ml	165	124	206	
	nmol/l	212	159	265	Beckman Dxl800
	µg/dl	16.5	12.4	20.6	
	ng/ml	165	124	206	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	181	136	226	Roche Elecsys
	µg/dl	14.1	10.6	17.6	
	ng/ml	141	106	176	
	nmol/l	177	133	221	Roche Modular E170
	µg/dl	13.8	10.4	17.2	
	ng/ml	138	104	172	
	nmol/l	202	152	253	Beckman Access
	µg/dl	15.8	11.9	19.7	
	ng/ml	158	119	197	
	nmol/l	197	148	246	Tosoh AIA360
	µg/dl	15.4	11.5	19.3	
	ng/ml	154	115	193	
	nmol/l	207	155	259	Vitros ECI
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	202	152	253	CIS RIA Coated tube
	µg/dl	15.8	11.9	19.7	
	ng/ml	158	119	197	
	nmol/l	182	137	228	Roche Cobas E411
	µg/dl	14.2	10.7	17.7	
	ng/ml	142	107	177	
	nmol/l	177	133	221	Roche Cobas 6000/8000
	µg/dl	13.8	10.4	17.2	
	ng/ml	138	104	172	
	nmol/l	172	129	215	Immunotech IRMA
	µg/dl	13.4	10.1	16.7	
	ng/ml	134	101	167	
Valproic Acid	µmol/l	996	797	1195	Abbott AXSYM
	µg/ml	144	115	173	
	µmol/l	935	748	1122	Abbott Architect
	µg/ml	135	108	162	
	µmol/l	901	721	1081	Siemens Centaur XP/Classic
	µg/ml	130	104	156	
	µmol/l	902	722	1082	Siemens Dimension
	µg/ml	130	104	156	
	µmol/l	1007	806	1208	Siemens Immulite 2000/2500
	µg/ml	145	116	174	
	µmol/l	1036	829	1243	Siemens Immulite 1000
	µg/ml	149	120	178	
	µmol/l	928	742	1114	Roche Integra
	µg/ml	134	107	161	
	µmol/l	971	777	1165	Roche Modular E170
	µg/ml	140	112	168	
	µmol/l	977	782	1172	Vitros
	µg/ml	141	113	169	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	962	770	1154	Roche Modular P-D
	µg/ml	139	111	167	
	µmol/l	932	746	1118	Roche Cobas E411
	µg/ml	134	108	160	
	µmol/l	950	760	1140	Roche Cobas 6000/8000
	µg/ml	137	110	164	
	µmol/l	874	699	1049	Beckman DxC
	µg/ml	126	101	151	
	µmol/l	1001	801	1201	Beckman AU400/600/640/2700/5400
	µg/ml	144	116	172	
Vancomycin	µmol/l	973	778	1168	Siemens ADVIA 1200/1650/1800/2400
	µg/ml	140	112	168	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
	µmol/l	12.8	10.2	15.4	Roche Integra
	µg/ml	19.0	15.2	22.8	
	µmol/l	9.75	7.80	11.7	Ortho Vitros Microslide Systems
	µg/ml	14.5	11.6	17.4	
	µmol/l	12.1	9.68	14.5	Abbott Architect
	µg/ml	18.0	14.4	21.6	
Vitamin B12	µmol/l	9.12	7.30	10.9	Siemens Centaur XP/Classic
	µg/ml	13.5	10.8	16.2	
	µmol/l	10.7	8.56	12.8	Siemens Dimension
	µg/ml	15.9	12.7	19.1	
	µmol/l	11.5	9.20	13.8	Roche Cobas 6000/8000
	µg/ml	17.1	13.7	20.5	
	µmol/l	10.8	8.64	13.0	Gravimetric
	µg/ml	16.0	12.8	19.3	
	pmol/l	696	557	835	Abbott Architect
	pg/ml	943	755	1131	
Vitamin B12	pmol/l	743	557	929	Siemens Centaur XP/Classic
	pg/ml	1007	755	1259	
	pmol/l	636	509	763	Siemens Immulite 2000
	pg/ml	862	690	1034	
	pmol/l	663	530	796	Beckman Dxl800
	pg/ml	898	718	1078	
	pmol/l	695	556	834	Roche Elecsys
	pg/ml	942	753	1131	
	pmol/l	709	567	851	Roche Modular E170
	pg/ml	961	768	1154	
Vitamin B12	pmol/l	678	542	814	Beckman Access
	pg/ml	919	734	1104	
	pmol/l	853	682	1024	Tosoh AIA360
	pg/ml	1156	924	1388	
	pmol/l	640	512	768	Vitros ECI
	pg/ml	867	694	1040	

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

Cat. No. IA3111 / IA3112 Lot No. 1478EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-10

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	702	562	842	MP Biomedicals RIA
	pg/ml	951	762	1140	
	pmol/l	693	554	832	Roche Cobas E411
	pg/ml	939	751	1127	
	pmol/l	702	562	842	Roche Cobas 6000/8000
	pg/ml	951	762	1140	