

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

CAT. NO. IA3109

GTIN: 05055273207255

CAT. NO. IA3112

GTIN: 05055273207286

LOT NO. 1573EC

SIZE: 12 x 5 ml / 4 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 1: 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. 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.

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IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	3.42	2.57	4.28	Immunotech RIA
	ng/ml	1.13	0.851	1.41	
	nmol/l	3.57	2.68	4.46	DIAsource RIA
	ng/ml	1.18	0.887	1.47	
25-OH Vitamin D	nmol/l	67.1	50.3	83.9	Diasorin Liaison
	nmol/l	55.5	41.6	69.4	Siemens Centaur XP/XPT/Classic
	nmol/l	27.1	20.3	33.9	Roche Vitamin D Total
	nmol/l	36.9	27.7	46.1	Abbott Architect
	nmol/l	99.0	74.3	124	Vitros ECI
	nmol/l	42.5	31.9	53.1	BioMerieux Vidas
	nmol/l	66.8	50.1	83.5	Beckman Dxl 600/800
ACTH	pmol/l	9.18	6.89	11.5	Siemens Immulite 2000/2500
	pg/ml	41.7	31.3	52.1	
	pmol/l	13.1	9.83	16.4	Roche Cobas E411
	pg/ml	59.5	44.7	74.3	
	pmol/l	13.0	9.75	16.3	Roche Cobas 6000/8000
	pg/ml	59.1	44.3	73.9	
	pmol/l	11.0	8.25	13.8	Siemens Immulite 1000
	pg/ml	50.0	37.5	62.5	
Alphafoetoprotein	pmol/l	17.4	13.1	21.8	Diasorin Liaison
	pg/ml	79.1	59.5	98.7	
	KIU/l = IU/ml	9.64	7.71	11.6	BioMerieux Vidas
	ng/ml	11.7	9.33	14.1	
	KIU/l = IU/ml	10.2	8.16	12.2	Siemens Immulite 1000
	ng/ml	12.3	9.87	14.7	
	KIU/l = IU/ml	10.8	8.64	13.0	Roche Elecsys
	ng/ml	13.1	10.5	15.7	
	KIU/l = IU/ml	9.32	7.46	11.2	Beckman Access
	ng/ml	11.3	9.03	13.6	
	KIU/l = IU/ml	11.9	9.52	14.3	Vitros ECI
	ng/ml	14.4	11.5	17.3	
	KIU/l = IU/ml	11.6	9.16	14.0	Siemens Centaur XP/XPT/Classic
	ng/ml	14.0	11.1	16.9	
	KIU/l = IU/ml	9.85	7.88	11.8	Siemens Immulite 2000/2500
	ng/ml	11.9	9.53	14.3	
	KIU/l = IU/ml	9.66	7.73	11.6	Abbott Architect
	ng/ml	11.7	9.35	14.1	
	KIU/l = IU/ml	9.87	7.90	11.8	Diasorin Liaison
	ng/ml	11.9	9.56	14.2	
	KIU/l = IU/ml	10.5	8.40	12.6	Roche Modular E170
	ng/ml	12.7	10.2	15.2	
	KIU/l = IU/ml	10.2	8.16	12.2	Beckman Dxl800
	ng/ml	12.3	9.87	14.7	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Alphafoetoprotein	KIU/l = IU/ml	10.5	8.40	12.6	Roche Cobas 6000/8000
	ng/ml	12.7	10.2	15.2	
	KIU/l = IU/ml	10.7	8.56	12.8	Roche Cobas E411
	ng/ml	12.9	10.4	15.4	
Amikacin	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
Androstenedione	nmol/l	3.84	2.88	4.80	Siemens Immulite 2000
	ng/ml	1.10	0.827	1.37	
	nmol/l	3.54	2.66	4.43	Novatec ELISA
	ng/ml	1.02	0.763	1.28	
Beta-2-microglobulin	µg/ml = mg/l	1.15	0.920	1.38	BioMerieux Vidas
	µg/ml = mg/l	1.23	0.984	1.48	Roche Tinaquant
	µg/ml = mg/l	1.12	0.896	1.34	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.20	0.960	1.44	Abbott Architect
	µg/ml = mg/l	1.34	1.07	1.61	Roche Modular E170
	µg/ml = mg/l	1.19	0.952	1.43	Roche Cobas 6000/8000
C-Peptide	nmol/l	0.452	0.339	0.565	Siemens Immulite 2000/2500
	ng/ml	1.36	1.02	1.70	
	nmol/l	0.635	0.476	0.794	Roche Cobas 6000/8000
	ng/ml	1.92	1.44	2.40	
	nmol/l	0.638	0.479	0.798	Roche Cobas E411
	ng/ml	1.93	1.45	2.41	
	nmol/l	0.466	0.350	0.583	Abbott Architect
	ng/ml	1.41	1.06	1.76	
CA 15-3	U/ml	20.1	16.1	24.1	Roche Elecsys
	U/ml	18.9	15.1	22.7	BioMerieux Vidas
	U/ml	19.0	12.5	25.5	Siemens Centaur XP/XPT/Classic
	U/ml	19.2	15.4	23.0	Abbott Architect
	U/ml	17.8	14.2	21.4	Siemens Immulite 2000/2500
	U/ml	19.7	15.8	23.6	Siemens Immulite 1000
	U/ml	18.2	14.6	21.8	Vitros ECI
	U/ml	20.6	16.5	24.7	Roche Modular E170
	U/ml	8.89	7.11	10.7	Beckman Dxl800
	U/ml	20.7	16.6	24.8	Roche Cobas 6000/8000
	U/ml	20.7	16.6	24.8	Roche Cobas E411
CA 19-9	U/ml	28.1	22.5	33.7	BioMerieux Vidas
	U/ml	19.4	15.5	23.3	Roche Elecsys
	U/ml	28.5	18.8	38.2	Siemens Centaur XP/XPT/Classic
	U/ml	20.7	16.6	24.8	Siemens Immulite 2000/2500
	U/ml	73.8	59.0	88.6	Abbott Architect
	U/ml	40.4	32.3	48.5	Vitros ECI
	U/ml	37.2	29.8	44.6	Diasorin Liaison
	U/ml	20.2	16.2	24.2	Roche Modular E170
	U/ml	25.9	20.7	31.1	Beckman Access
	U/ml	21.4	17.1	25.7	Beckman Dxl800

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Range					
Analyte	unit	Target	low	high	methods
CA 19-9	U/ml	72.4	57.9	86.9	Abbott Architect XR kit
	U/ml	20.0	16.0	24.0	Roche Cobas 6000/8000
	U/ml	21.4	17.1	25.7	Roche Cobas E411
CA125	U/ml	20.1	16.1	24.1	Siemens Immulite 1000
	U/ml	18.7	15.0	22.4	BioMerieux Vidas
	U/ml	21.3	17.0	25.6	Roche Elecsys
	U/ml	17.6	14.1	21.1	Siemens Immulite 2000/2500
	U/ml	18.4	14.7	22.1	Vitros ECI
	U/ml	24.4	19.5	29.3	Diasorin Liaison
	U/ml	19.8	15.8	23.8	Roche Modular E170
	U/ml	28.9	23.1	34.7	Abbott Architect
	U/ml	20.5	13.5	27.5	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	16.9	13.5	20.3	Beckman Access
	U/ml	15.6	12.5	18.7	Beckman Dxl800
	U/ml	20.1	16.1	24.1	Roche Cobas E411
	U/ml	20.2	16.2	24.2	Roche Cobas 6000/8000
Carbamazepine	µmol/l	15.4	12.3	18.5	Behring Emit
	µg/ml	3.64	2.91	4.37	
	µmol/l	16.4	11.8	21.0	Siemens Centaur XP/XPT/Classic
	µg/ml	3.88	2.79	4.97	
	µmol/l	13.8	11.0	16.6	Siemens Immulite 1000
	µg/ml	3.26	2.60	3.92	
	µmol/l	15.7	12.6	18.8	Roche Integra
	µg/ml	3.71	2.98	4.44	
	µmol/l	15.4	12.3	18.5	Abbott Architect
	µg/ml	3.64	2.91	4.37	
	µmol/l	13.6	10.9	16.3	Beckman DxC
	µg/ml	3.22	2.58	3.86	
	µmol/l	15.2	12.2	18.2	Roche Cobas E411
	µg/ml	3.59	2.88	4.30	
	µmol/l	14.2	11.4	17.0	Roche Cobas 6000/8000
	µg/ml	3.36	2.69	4.03	
	µmol/l	15.4	12.3	18.4	Gravimetric
	µg/ml	3.63	2.91	4.35	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	3.47	2.78	4.16	BioMerieux Vidas
	ng/ml = µg/l	4.87	3.90	5.84	Siemens Immulite 1000
	ng/ml = µg/l	3.87	3.10	4.64	Roche Elecsys
	ng/ml = µg/l	4.68	3.74	5.62	Vitros ECI
	ng/ml = µg/l	3.89	3.11	4.67	Beckman Access
	ng/ml = µg/l	4.29	2.83	5.75	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	4.60	3.68	5.52	Siemens Immulite 2000/2500
	ng/ml = µg/l	4.31	3.45	5.17	Abbott Architect
	ng/ml = µg/l	4.02	3.22	4.82	Diasorin Liaison
	ng/ml = µg/l	3.80	3.04	4.56	Roche Modular E170
	ng/ml = µg/l	3.84	3.07	4.61	Beckman Dxl800
	ng/ml = µg/l	3.92	3.14	4.70	Roche Cobas 6000/8000

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Carcinoembryonic	ng/ml = µg/l	4.12	3.30	4.94	Roche Cobas E411
Cortisol	nmol/l	119	89.3	149	BioMerieux Vidas
	µg/dl	4.28	3.21	5.35	
	nmol/l	188	141	235	Siemens Immulite 1000
	µg/dl	6.77	5.08	8.46	
	nmol/l	180	135	225	Roche Elecsys
	µg/dl	6.48	4.86	8.10	
	nmol/l	203	134	272	Siemens Centaur XP/XPT/Classic
	µg/dl	7.31	4.82	9.80	
	nmol/l	191	143	239	Siemens Immulite 2000/2500
	µg/dl	6.88	5.15	8.61	
	nmol/l	144	108	180	Vitros ECi
	µg/dl	5.18	3.89	6.47	
	nmol/l	206	155	258	Abbott Architect
	µg/dl	7.42	5.58	9.26	
	nmol/l	162	122	203	Roche Modular E170
	µg/dl	5.83	4.39	7.27	
	nmol/l	193	145	241	Beckman Dxl800
	µg/dl	6.95	5.22	8.68	
	nmol/l	168	126	210	Roche Cobas 6000/8000
	µg/dl	6.05	4.54	7.56	
	nmol/l	180	135	225	Roche Cobas E411
	µg/dl	6.48	4.86	8.10	
	nmol/l	207	137	277	Siemens Centaur CP
	µg/dl	7.45	4.92	9.98	
	nmol/l	159	119	199	Roche Modular E170 Gen II
	µg/dl	5.72	4.28	7.16	
	nmol/l	175	131	219	Roche Cobas 4000/e411 Gen II
	µg/dl	6.30	4.72	7.88	
	nmol/l	165	124	206	Roche Cobas 6000/8000 Gen II
	µg/dl	5.94	4.46	7.42	
DHEA-S	µmol/l	2.23	1.78	2.68	Siemens Immulite 1000
	µmol/l	2.41	1.93	2.89	Siemens Immulite 2000/2500
	µmol/l	3.51	2.81	4.21	Roche Elecsys
	µmol/l	3.54	2.83	4.25	Roche Modular E170
	µmol/l	2.91	2.33	3.49	Abbott Architect
	µmol/l	3.25	2.60	3.90	Beckman Access
	µmol/l	2.70	2.16	3.24	Beckman Dxl800
	µmol/l	3.65	2.92	4.38	Roche Cobas E411
	µmol/l	3.67	2.94	4.40	Roche Cobas 6000/8000
Digoxin	nmol/l	0.798	0.638	0.958	Vitros
	ng/ml	0.623	0.498	0.748	
	nmol/l	1.11	0.833	1.39	Siemens Centaur XP/XPT/Classic
	ng/ml	0.867	0.650	1.08	
	nmol/l	0.651	0.521	0.781	Abbott Architect
	ng/ml	0.508	0.407	0.609	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Digoxin	nmol/l	0.774	0.619	0.929	Beckman Dxl800
	ng/ml	0.604	0.483	0.725	
	nmol/l	0.909	0.727	1.09	Roche Cobas 6000/8000
	ng/ml	0.710	0.568	0.852	
	nmol/l	1.02	0.816	1.22	Beckman AU400/600/640/2700/5400
	ng/ml	0.797	0.637	0.957	
	nmol/l	0.962	0.770	1.15	Roche Cobas 4000/E411
	ng/ml	0.751	0.601	0.901	
Ethosuximide	nmol/l	0.896	0.720	1.08	Gravimetric
	ng/ml	0.700	0.560	0.840	
	µmol/l	226	180	271	Gravimetric
Ferritin	µg/ml	32.0	25.5	38.4	
	ng/ml = µg/l	16.8	13.4	20.2	Siemens Immulite 1000
	ng/ml = µg/l	17.6	14.1	21.1	Roche Elecsys
	ng/ml = µg/l	12.1	9.68	14.5	Beckman Access
	ng/ml = µg/l	13.9	11.1	16.7	Vitros ECI
	ng/ml = µg/l	16.5	12.4	20.6	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	17.5	14.0	21.0	Siemens Immulite 2000/2500
	ng/ml = µg/l	17.8	14.2	21.4	Abbott Architect
	ng/ml = µg/l	17.8	14.2	21.4	Roche Modular E170
	ng/ml = µg/l	18.0	14.4	21.6	Siemens Dimension
	ng/ml = µg/l	12.3	9.84	14.8	Beckman Dxl800
	ng/ml = µg/l	18.1	14.5	21.7	Roche Cobas E411
Folate	ng/ml = µg/l	14.5	10.9	18.1	Siemens Centaur CP
	nmol/l	2.97	2.26	3.68	Beckman Access
	ng/ml	1.31	0.997	1.62	
	nmol/l	6.74	5.12	8.36	Roche Elecsys
	ng/ml	2.97	2.26	3.68	
	nmol/l	2.86	2.17	3.55	Siemens Immulite 2000
	ng/ml	1.26	0.957	1.56	
	nmol/l	3.32	2.52	4.12	Vitros ECI
	ng/ml	1.46	1.11	1.81	
	nmol/l	3.98	3.02	4.94	Abbott Architect
	ng/ml	1.76	1.33	2.19	
	nmol/l	7.11	5.40	8.82	Roche Modular E170
	ng/ml	3.14	2.38	3.90	
	nmol/l	8.20	4.51	11.9	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	3.62	1.99	5.25	
	nmol/l	3.73	2.83	4.63	Beckman Dxl800
	ng/ml	1.64	1.25	2.03	
	nmol/l	6.45	4.90	8.00	Roche Cobas E411
	ng/ml	2.84	2.16	3.52	
Free T3	nmol/l	7.11	5.40	8.82	Roche Cobas 6000/8000
	ng/ml	3.14	2.38	3.90	
	pmol/l	4.65	3.49	5.81	BioMerieux Vidas
	ng/dl	0.302	0.227	0.377	
	pg/ml	3.03	2.27	3.79	

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Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	5.38	4.04	6.73	Roche Elecsys
	ng/dl	0.350	0.263	0.437	
	pg/ml	3.50	2.63	4.37	
	pmol/l	4.78	3.59	5.98	Beckman Access
	ng/dl	0.311	0.233	0.389	
	pg/ml	3.11	2.34	3.88	
	pmol/l	4.87	3.65	6.09	Siemens Immulite 1000
	ng/dl	0.317	0.237	0.397	
	pg/ml	3.17	2.38	3.96	
	pmol/l	10.3	7.73	12.9	Vitros ECI
	ng/dl	0.670	0.502	0.838	
	pg/ml	6.71	5.03	8.39	
	pmol/l	4.90	2.94	6.86	Siemens Centaur XP/XPT/Classic
	ng/dl	0.319	0.191	0.447	
	pg/ml	3.19	1.91	4.47	
	pmol/l	4.30	3.23	5.38	Siemens Immulite 2000/2500
	ng/dl	0.280	0.210	0.350	
	pg/ml	2.80	2.10	3.50	
	pmol/l	3.32	2.49	4.15	Abbott Architect
	ng/dl	0.216	0.162	0.270	
	pg/ml	2.16	1.62	2.70	
	pmol/l	4.36	3.27	5.45	Diasorin Liaison
	ng/dl	0.283	0.213	0.353	
	pg/ml	2.84	2.13	3.55	
	pmol/l	5.42	4.07	6.78	Roche Modular E170
	ng/dl	0.352	0.265	0.439	
	pg/ml	3.53	2.65	4.41	
	pmol/l	4.92	3.69	6.15	Beckman Dxl800
	ng/dl	0.320	0.240	0.400	
	pg/ml	3.20	2.40	4.00	
	pmol/l	5.45	4.09	6.81	Roche Cobas E411
	ng/dl	0.354	0.266	0.442	
	pg/ml	3.55	2.66	4.44	
	pmol/l	5.38	4.04	6.73	Roche Cobas 6000/8000
	ng/dl	0.350	0.263	0.437	
	pg/ml	3.50	2.63	4.37	
	pmol/l	5.08	3.05	7.11	Siemens Centaur CP
	ng/dl	0.330	0.198	0.462	
	pg/ml	3.31	1.99	4.63	
Free T4	pmol/l	17.2	12.9	21.5	Siemens Immulite 1000
	ng/dl	1.34	1.01	1.67	
	pg/ml	13.4	10.1	16.7	
	pmol/l	17.8	13.4	22.3	Roche Elecsys
	ng/dl	1.39	1.05	1.73	
	pg/ml	13.9	10.5	17.3	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	13.1	9.83	16.4	Beckman Access
	ng/dl	1.02	0.767	1.27	
	pg/ml	10.2	7.67	12.7	
	pmol/l	28.8	21.6	36.0	Vitros ECI
	ng/dl	2.25	1.68	2.82	
	pg/ml	22.5	16.8	28.2	
	pmol/l	11.8	8.85	14.8	Siemens Centaur XP/XPT/Classic
	ng/dl	0.920	0.690	1.15	
	pg/ml	9.20	6.90	11.5	
	pmol/l	17.5	13.1	21.9	Siemens Immulite 2000/2500
	ng/dl	1.37	1.02	1.72	
	pg/ml	13.7	10.2	17.2	
	pmol/l	12.6	9.45	15.8	Abbott Architect
	ng/dl	0.983	0.737	1.23	
	pg/ml	9.83	7.37	12.3	
	pmol/l	15.8	11.9	19.8	Diasorin Liaison
	ng/dl	1.23	0.928	1.53	
	pg/ml	12.3	9.28	15.3	
	pmol/l	17.3	13.0	21.6	Roche Modular E170
	ng/dl	1.35	1.01	1.69	
	pg/ml	13.5	10.1	16.9	
	pmol/l	13.4	10.1	16.8	Beckman Dxl800
	ng/dl	1.05	0.788	1.31	
	pg/ml	10.5	7.88	13.1	
	pmol/l	17.5	13.1	21.9	Roche Cobas 6000/8000
	ng/dl	1.37	1.02	1.72	
	pg/ml	13.7	10.2	17.2	
	pmol/l	17.8	13.4	22.3	Roche Cobas E411
	ng/dl	1.39	1.05	1.73	
	pg/ml	13.9	10.5	17.3	
	pmol/l	15.0	11.3	18.8	Biomerieux Vidas FT4N Kit
	ng/dl	1.17	0.881	1.46	
	pg/ml	11.7	8.81	14.6	
	pmol/l	12.3	9.23	15.4	Siemens Centaur CP
	ng/dl	0.959	0.719	1.20	
	pg/ml	9.59	7.19	12.0	
FSH	mU/ml	7.26	5.81	8.71	Siemens Immulite 1000
	mU/ml	7.15	5.72	8.58	BioMerieux Vidas
	mU/ml	7.03	5.62	8.44	Beckman Access
	mU/ml	6.45	5.16	7.74	Roche/BM Elecsys
	mU/ml	5.66	4.53	6.79	Vitros ECI
	mU/ml	9.45	6.62	12.3	Siemens Centaur XP/XPT/Classic
	mU/ml	7.22	5.78	8.66	Siemens Immulite 2000/2500
	mU/ml	5.60	4.48	6.72	Abbott Architect
	mU/ml	7.53	6.02	9.04	Diasorin Liaison
	mU/ml	6.07	4.86	7.28	Roche Modular E170

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
FSH	mU/ml	6.79	5.43	8.15	Beckman Dxl800
	mU/ml	6.59	5.27	7.91	Roche Cobas E411
	mU/ml	6.21	4.97	7.45	Roche Cobas 6000/8000
	mU/ml	6.44	4.51	8.37	Siemens Centaur CP
Gentamicin	µmol/l	4.49	3.59	5.39	Beckman DxC
	µg/ml	2.15	1.72	2.58	
	µmol/l	4.85	3.88	5.82	Gravimetric
	µg/ml	2.32	1.85	2.78	
Growth Hormone (GH)	µU/ml	5.69	4.55	6.83	Siemens Immulite 1000
	ng/ml	1.89	1.52	2.26	
	µU/ml	6.11	4.89	7.33	Siemens Immulite 2000/2500
	ng/ml	2.03	1.63	2.43	
	µU/ml	3.83	3.06	4.60	Beckman Dxl800
	ng/ml	1.28	1.02	1.54	
	µU/ml	4.15	3.32	4.98	Diasorin Liaison
	ng/ml	1.38	1.11	1.65	
	µU/ml	4.82	3.86	5.78	Roche Cobas E411
	ng/ml	1.61	1.29	1.93	
	µU/ml	4.42	3.54	5.30	Roche Cobas 6000/8000
	ng/ml	1.47	1.18	1.76	
Immunoglobulin E	KIU/l = IU/ml	249	199	299	Siemens Immulite 1000
	KIU/l = IU/ml	190	152	228	BioMerieux Vidas
	KIU/l = IU/ml	189	151	227	Beckman Access
	KIU/l = IU/ml	209	167	251	Roche Elecsys
	KIU/l = IU/ml	185	111	259	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	238	190	286	Siemens Immulite 2000/2500
	KIU/l = IU/ml	209	167	251	Roche Modular E170
	KIU/l = IU/ml	197	158	236	Beckman Dxl800
	KIU/l = IU/ml	239	191	287	Abbott Architect
	KIU/l = IU/ml	209	167	251	Roche Cobas E411
	KIU/l = IU/ml	212	170	254	Roche Cobas 6000/8000
Insulin	mU/l	1.64	1.23	2.05	Siemens Centaur XP/XPT/Classic
	mU/l	1.07	0.803	1.34	Roche Modular E170
	mU/l	1.11	0.833	1.39	Roche Elecsys
	mU/l	0.635	0.476	0.794	Beckman Access
	mU/l	0.857	0.643	1.07	Abbott Architect
	mU/l	1.23	0.923	1.54	Roche Cobas E411
	mU/l	1.10	0.825	1.38	Roche Cobas 6000/8000
	mU/l	0.627	0.470	0.784	Beckman Dxl 600/800
Luteinising Hormone (LH)	mU/ml	2.19	1.75	2.63	Beckman Access
	mU/ml	2.79	2.23	3.35	BioMerieux Vidas
	mU/ml	5.93	4.74	7.12	Siemens Immulite 1000
	mU/ml	3.62	2.90	4.34	Roche Elecsys
	mU/ml	5.14	4.11	6.17	Vitros ECI
	mU/ml	2.77	2.08	3.46	Siemens Centaur XP/XPT/Classic
	mU/ml	5.66	4.53	6.79	Siemens Immulite 2000

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Luteinising Hormone (LH)	mU/ml	2.32	1.86	2.78	Abbott Architect
	mU/ml	3.54	2.83	4.25	Roche Modular E170
	mU/ml	1.94	1.55	2.33	Beckman Dxl800
	mU/ml	3.55	2.84	4.26	Roche Cobas E411
	mU/ml	3.49	2.79	4.19	Roche Cobas 6000/8000
	mU/ml	2.73	2.05	3.41	Siemens Centaur CP
Oestradiol	pmol/l	220	176	264	BioMerieux Vidas
	pg/ml	59.8	47.9	71.7	
	pmol/l	155	124	186	Siemens Immulite 1000
	pg/ml	42.2	33.7	50.7	
	pmol/l	200	160	240	Roche Elecsys (Estradiol II)
	pg/ml	54.4	43.5	65.3	
	pmol/l	109	87.2	131	Vitros ECI
	pg/ml	29.6	23.7	35.5	
	pmol/l	149	119	179	Beckman Access
	pg/ml	40.5	32.4	48.6	
	pmol/l	151	121	181	Siemens Immulite 2000/2500
	pg/ml	41.1	32.9	49.3	
	pmol/l	205	164	246	Abbott Architect
	pg/ml	55.8	44.6	67.0	
	pmol/l	176	141	211	Roche Modular E170 (Estradiol II)
	pg/ml	47.9	38.4	57.4	
	pmol/l	184	147	221	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	50.0	40.0	60.0	
	pmol/l	174	139	209	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	47.3	37.8	56.8	
	pmol/l	181	109	253	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	49.2	29.5	68.9	
	pmol/l	177	106	248	Siemens Centaur CP
	pg/ml	48.1	28.9	67.3	
	pmol/l	176	141	211	Roche Cobas 6000/8000 (Estradiol III)
	pg/ml	47.9	38.4	57.4	
	pmol/l	169	135	203	Roche Elecsys (Estradiol III)
	pg/ml	46.0	36.7	55.3	
	pmol/l	167	134	200	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	45.4	36.4	54.4	
	pmol/l	173	138	208	Roche Modular E170 (Estradiol III)
	pg/ml	47.1	37.5	56.7	
Paracetamol	mmol/l	0.152	0.122	0.182	Vitros
	mg/l	23.0	18.5	27.5	
	mmol/l	0.165	0.132	0.198	Abbott Architect
	mg/l	25.0	20.0	30.0	
	mmol/l	0.166	0.130	0.200	Gravimetric
	mg/l	25.1	19.7	30.3	
Phenobarbital	µmol/l	34.0	27.2	40.8	Abbott Architect
	µg/ml	7.89	6.31	9.47	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Phenobarbital	µmol/l	34.0	27.2	40.8	Siemens Immulite 2000/2500
	µg/ml	7.89	6.31	9.47	
	µmol/l	31.3	25.0	37.6	Beckman AU400/600/640/2700/5400
	µg/ml	7.26	5.80	8.72	
	µmol/l	36.2	29.0	43.4	Siemens Immulite 1000
	µg/ml	8.40	6.73	10.1	
	µmol/l	31.3	25.0	37.6	Beckman DxC
	µg/ml	7.26	5.80	8.72	
Phenytoin	µmol/l	34.5	27.6	41.4	Gravimetric
	µg/ml	8.00	6.40	9.60	
	µmol/l	16.9	13.5	20.3	Vitros
	µg/ml	4.27	3.41	5.13	
	µmol/l	20.4	16.3	24.5	Siemens Immulite 1000
	µg/ml	5.15	4.12	6.18	
	µmol/l	20.2	16.2	24.2	Roche Integra
	µg/ml	5.10	4.09	6.11	
	µmol/l	19.9	15.9	23.9	Abbott Architect
	µg/ml	5.02	4.01	6.03	
	µmol/l	18.9	15.1	22.7	Beckman DxC
	µg/ml	4.77	3.81	5.73	
	µmol/l	18.3	14.6	22.0	Roche Cobas E411
	µg/ml	4.62	3.69	5.55	
	µmol/l	18.2	14.6	21.8	Roche Cobas 6000/8000
	µg/ml	4.60	3.69	5.51	
Primidone	µmol/l	20.2	16.2	24.2	Gravimetric
	µg/ml	5.10	4.09	6.11	
Progesterone	µmol/l	12.3	9.86	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
	nmol/l	3.31	2.65	3.97	Siemens Immulite 1000
	ng/ml	1.04	0.829	1.25	
	nmol/l	3.61	2.89	4.33	BioMerieux Vidas
	ng/ml	1.13	0.905	1.36	
	nmol/l	2.98	2.38	3.58	Roche Elecsys
	ng/ml	0.933	0.745	1.12	
	nmol/l	3.71	2.97	4.45	Vitros ECi
	ng/ml	1.16	0.930	1.39	
	nmol/l	2.36	1.30	3.42	Siemens Centaur XP/XPT/Classic
	ng/ml	0.739	0.406	1.07	
	nmol/l	3.20	2.56	3.84	Siemens Immulite 2000/2500
	ng/ml	1.00	0.801	1.20	
	nmol/l	3.24	2.59	3.89	Abbott Architect
	ng/ml	1.01	0.811	1.21	
	nmol/l	2.67	2.14	3.20	Roche Modular E170
	ng/ml	0.836	0.670	1.00	
	nmol/l	3.19	2.55	3.83	Beckman Dxi Prog Cal 33555
	ng/ml	0.998	0.798	1.20	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Progesterone	nmol/l	2.91	2.33	3.49	Roche Cobas E411
	ng/ml	0.911	0.729	1.09	
	nmol/l	2.78	2.22	3.34	Roche Cobas 6000/8000
	ng/ml	0.870	0.695	1.05	
	nmol/l	1.95	1.56	2.34	Beckman Dxl Prog DE Cal A80773
Prolactin	ng/ml	0.610	0.488	0.732	
	µU/ml	8.81	7.05	10.6	Beckman Access
	µU/ml	356	285	427	BioMerieux Vidas
	µU/ml	214	171	257	Siemens Immulite 1000
	µU/ml	241	193	289	Roche Elecsys
	µU/ml	301	241	361	Vitros ECI
	µU/ml	293	205	381	Siemens Centaur XP/XPT/Classic
	µU/ml	190	152	228	Siemens Immulite 2000/2500
	µU/ml	316	253	379	Abbott Architect
	µU/ml	233	186	280	Roche Modular E170
	µU/ml	8.23	6.58	9.88	Beckman Dxl800
	µU/ml	239	191	287	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	245	196	294	Roche Cobas E411
	µU/ml	236	189	283	Roche Cobas 6000/8000
	µU/ml	319	255	383	Abbott Architect restandardised
	µU/ml	263	184	342	Siemens Centaur CP
PSA Free	ng/ml = µg/l	1.00	0.750	1.25	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.05	0.788	1.31	Roche Elecsys
	ng/ml = µg/l	1.03	0.773	1.29	Abbott Architect
	ng/ml = µg/l	1.64	1.23	2.05	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.08	0.810	1.35	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.03	0.773	1.29	Roche Modular E170
	ng/ml = µg/l	1.56	1.17	1.95	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.08	0.810	1.35	Roche Cobas E411
	ng/ml = µg/l	1.05	0.788	1.31	Roche Cobas 6000/8000
PSA Total	ng/ml = µg/l	1.64	1.23	2.05	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.22	0.915	1.53	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.81	1.36	2.26	Roche Elecsys
	ng/ml = µg/l	1.60	1.20	2.00	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.31	0.983	1.64	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.57	1.18	1.96	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.18	0.885	1.48	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.47	1.10	1.84	Abbott Architect
	ng/ml = µg/l	1.13	0.848	1.41	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	1.66	1.25	2.08	Vitros ECI
	ng/ml = µg/l	0.807	0.605	1.01	Diasorin Liaison
	ng/ml = µg/l	1.71	1.28	2.14	Roche Modular E170
	ng/ml = µg/l	1.59	1.19	1.99	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.53	1.15	1.91	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	1.24	0.930	1.55	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.80	1.35	2.25	Roche Cobas E411

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
PSA Total	ng/ml = µg/l	1.75	1.31	2.19	Roche Cobas 6000/8000
	ng/ml = µg/l	1.79	1.34	2.24	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	1.69	1.27	2.11	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.26	0.945	1.58	Siemens Centaur CP
Salicylic Acid	mmol/l	0.252	0.202	0.302	Abbott Architect
	mg/dl	3.48	2.79	4.17	
	mmol/l	0.286	0.230	0.340	Gravimetric
	mg/dl	3.95	3.18	4.70	
SHBG	nmol/l	10.9	8.72	13.1	Siemens Centaur XP/XPT/Classic
	nmol/l	10.0	8.00	12.0	Siemens Immulite 2000/2500
	nmol/l	10.6	8.48	12.7	Roche Elecsys
	nmol/l	9.81	7.85	11.8	Roche Modular E170
	nmol/l	9.71	7.77	11.7	Abbott Architect
	nmol/l	10.4	8.32	12.5	Roche Cobas E411
	nmol/l	9.72	7.78	11.7	Roche Cobas 6000/8000
	nmol/l	9.95	7.96	11.9	Beckman Access
	nmol/l	10.7	8.56	12.8	Beckman Dxl800
T Uptake	%U	35.7	29.3	42.1	Siemens Immulite 2000
Testosterone	nmol/l	1.31	1.05	1.57	Vitros ECi
	ng/ml	0.377	0.302	0.452	
	ng/dl	37.7	30.2	45.2	
	nmol/l	1.46	0.949	1.97	Siemens Centaur XP/XPT/Classic
	ng/ml	0.420	0.273	0.567	
	ng/dl	42.0	27.3	56.7	
	nmol/l	1.44	1.15	1.73	Siemens Immulite 2000/2500
	ng/ml	0.415	0.331	0.499	
	ng/dl	41.5	33.1	49.9	
	nmol/l	1.75	1.40	2.10	Abbott Architect
	ng/ml	0.504	0.403	0.605	
	ng/dl	50.4	40.3	60.5	
	nmol/l	1.65	1.32	1.98	Beckman Dxl800
	ng/ml	0.475	0.380	0.570	
	ng/dl	47.5	38.0	57.0	
	nmol/l	1.85	1.48	2.22	Roche Elecsys Test II
	ng/ml	0.533	0.426	0.640	
	ng/dl	53.3	42.6	64.0	
	nmol/l	1.80	1.44	2.16	Roche Modular E170 Test II
	ng/ml	0.518	0.415	0.621	
	ng/dl	51.8	41.5	62.1	
	nmol/l	1.84	1.47	2.21	Roche Cobas 4000/e411 Test II
	ng/ml	0.530	0.423	0.637	
	ng/dl	53.0	42.3	63.7	
	nmol/l	1.83	1.46	2.20	Roche Cobas 6000 Test 2
	ng/ml	0.527	0.420	0.634	
	ng/dl	52.7	42.0	63.4	
	nmol/l	1.69	1.35	2.03	Abbott Architect 2nd Generation
	ng/ml	0.487	0.389	0.585	
	ng/dl	48.7	38.9	58.5	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Testosterone	nmol/l	1.12	0.896	1.34	BioMerieux Vidas Testosterone II
	ng/ml	0.323	0.258	0.388	
	ng/dl	32.3	25.8	38.8	
Theophylline	µmol/l	38.4	30.7	46.1	Vitros
	µg/ml	6.92	5.53	8.31	
	µmol/l	27.1	21.7	32.5	Abbott Architect
	µg/ml	4.88	3.91	5.85	
	µmol/l	23.1	18.5	27.7	Beckman DxC
	µg/ml	4.16	3.33	4.99	
	µmol/l	28.3	22.6	34.0	Gravimetric
Thyroglobulin	µg/ml	5.10	4.07	6.13	
	ng/ml	2.77	2.08	3.46	Roche Modular E170
	ng/ml	2.79	2.09	3.49	Roche Cobas E411
	ng/ml	3.00	2.25	3.75	Roche Cobas 6000/8000
	ng/ml	2.95	2.21	3.69	Roche Cobas 6000 TGII
	ng/ml	3.00	2.25	3.75	Roche Cobas 4000/E411 TGII
Thyroid Stimulating Hormone	ng/ml	3.10	2.33	3.88	Roche Modular E170 TGII
	µU/ml = mIU/l	0.081	0.065	0.097	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.171	0.137	0.205	Siemens Immulite 1000
	µU/ml = mIU/l	0.186	0.149	0.223	Roche Elecsys
	µU/ml = mIU/l	0.134	0.107	0.161	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.215	0.172	0.258	Vitros ECI
	µU/ml = mIU/l	0.137	0.093	0.181	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	0.136	0.109	0.163	Siemens Immulite 2000/2500
	µU/ml = mIU/l	0.133	0.106	0.160	Abbott Architect
	µU/ml = mIU/l	0.226	0.181	0.271	Diasorin Liaison
	µU/ml = mIU/l	0.168	0.134	0.202	Roche Modular E170
	µU/ml = mIU/l	0.084	0.067	0.101	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.137	0.110	0.164	Beckman Access Fast TSH
	µU/ml = mIU/l	0.133	0.106	0.160	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	0.173	0.138	0.208	Roche Cobas E411
	µU/ml = mIU/l	0.172	0.138	0.206	Roche Cobas 6000/8000
	µU/ml = mIU/l	0.135	0.108	0.162	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.145	0.099	0.191	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.141	0.096	0.186	Siemens Centaur CP
	µU/ml = mIU/l	0.150	0.102	0.198	Siemens Centaur CP TSH3-Ultra
Tobramycin	µmol/l	4.17	3.34	5.00	Gravimetric
	µg/ml	1.95	1.56	2.34	
Total Beta hCG	mU/ml=IU/l	13.7	11.0	16.4	BioMerieux Vidas
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	21.6	17.3	25.9	Siemens Immulite 1000
	IU/ml	0.022	0.017	0.027	
	mU/ml=IU/l	13.9	11.1	16.7	Roche Cobas Core EIA
	IU/ml	0.014	0.011	0.017	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Total Beta hCG	mU/ml=IU/l	18.2	14.6	21.8	Beckman Access
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	14.4	11.5	17.3	Vitros ECI
	IU/ml	0.014	0.012	0.016	
	mU/ml=IU/l	20.3	12.2	28.4	Siemens Centaur XP/XPT/Classic
	IU/ml	0.020	0.012	0.028	
	mU/ml=IU/l	22.6	18.1	27.1	Siemens Immulite 2000
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	16.2	13.0	19.4	Abbott Architect
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	15.3	12.2	18.4	Diasorin Liaison
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	13.3	10.6	16.0	Siemens Dimension
	IU/ml	0.013	0.011	0.015	
	mU/ml=IU/l	18.4	14.7	22.1	Beckman Dxl800
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	12.2	9.76	14.6	Roche STAT (Intact)
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	13.9	11.1	16.7	Roche hCG+Beta
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	14.3	11.4	17.2	Radiometer AQT90 Flex
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	18.2	14.6	21.8	Beckman Access Total BhCG (5th IS)
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	18.7	15.0	22.4	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	18.6	11.2	26.0	Siemens Centaur CP
	IU/ml	0.019	0.011	0.027	
Total T3	nmol/l	0.918	0.689	1.15	BioMerieux Vidas
	ng/ml	0.598	0.449	0.747	
	ng/dl	59.8	44.9	74.7	
	nmol/l	0.752	0.564	0.940	Siemens Immulite 1000
	ng/ml	0.490	0.367	0.613	
	ng/dl	49.0	36.7	61.3	
	nmol/l	1.80	1.35	2.25	Roche Elecsys
	ng/ml	1.17	0.879	1.46	
	ng/dl	117	87.9	146	
	nmol/l	1.30	0.975	1.63	Beckman Access
	ng/ml	0.846	0.635	1.06	
	ng/dl	84.6	63.5	106	
	nmol/l	0.893	0.670	1.12	Siemens Centaur XP/XPT/Classic
	ng/ml	0.581	0.436	0.726	
	ng/dl	58.1	43.6	72.6	
	nmol/l	0.684	0.513	0.855	Siemens Immulite 2000/2500
	ng/ml	0.445	0.334	0.556	
	ng/dl	44.5	33.4	55.6	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T3	nmol/l	1.02	0.765	1.28	Abbott Architect
	ng/ml	0.664	0.498	0.830	
	ng/dl	66.4	49.8	83.0	
	nmol/l	1.35	1.01	1.69	Vitros ECI
	ng/ml	0.879	0.658	1.10	
	ng/dl	87.9	65.8	110	
	nmol/l	1.73	1.30	2.16	Roche Modular E170
	ng/ml	1.13	0.846	1.41	
	ng/dl	113	84.6	141	
	nmol/l	1.25	0.938	1.56	Beckman Dxl800
	ng/ml	0.814	0.611	1.02	
	ng/dl	81.4	61.1	102	
	nmol/l	1.76	1.32	2.20	Roche Cobas E411
	ng/ml	1.15	0.859	1.44	
	ng/dl	115	85.9	144	
	nmol/l	1.67	1.25	2.09	Roche Cobas 6000/8000
	ng/ml	1.09	0.814	1.37	
	ng/dl	109	81.4	137	
	nmol/l	1.20	0.900	1.50	Monobind Inc. ELISA / CLIA
	ng/ml	0.781	0.586	0.976	
	ng/dl	78.1	58.6	97.6	
Total T4	nmol/l	33.0	24.8	41.3	Vitros ECI
	µg/dl	2.57	1.93	3.21	
	ng/ml	25.7	19.3	32.1	
	nmol/l	42.8	32.1	53.5	BioMerieux Vidas
	µg/dl	3.34	2.50	4.18	
	ng/ml	33.4	25.0	41.8	
	nmol/l	34.1	25.6	42.6	Siemens Immulite 1000
	µg/dl	2.66	2.00	3.32	
	ng/ml	26.6	20.0	33.2	
	nmol/l	43.0	32.3	53.8	Roche Elecsys
	µg/dl	3.35	2.52	4.18	
	ng/ml	33.5	25.2	41.8	
	nmol/l	34.2	25.7	42.8	Beckman Access
	µg/dl	2.67	2.00	3.34	
	ng/ml	26.7	20.0	33.4	
	nmol/l	17.8	12.5	23.1	Siemens Centaur XP/XPT/Classic
	µg/dl	1.39	0.973	1.81	
	ng/ml	13.9	9.73	18.1	
	nmol/l	33.0	24.8	41.3	Siemens Immulite 2000/2500
	µg/dl	2.57	1.93	3.21	
	ng/ml	25.7	19.3	32.1	
	nmol/l	49.6	37.2	62.0	Abbott Architect
	µg/dl	3.87	2.90	4.84	
	ng/ml	38.7	29.0	48.4	
	nmol/l	44.1	33.1	55.1	Roche Modular E170
	µg/dl	3.44	2.58	4.30	
	ng/ml	34.4	25.8	43.0	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	25.7	19.3	32.1	Beckman Dxl800
	µg/dl	2.00	1.51	2.49	
	ng/ml	20.0	15.1	24.9	
	nmol/l	46.3	34.7	57.9	Roche Cobas E411
	µg/dl	3.61	2.71	4.51	
	ng/ml	36.1	27.1	45.1	
	nmol/l	43.1	32.3	53.9	Roche Cobas 6000/8000
	µg/dl	3.36	2.52	4.20	
	ng/ml	33.6	25.2	42.0	
	nmol/l	25.8	18.1	33.5	Siemens Centaur CP
	µg/dl	2.01	1.41	2.61	
	ng/ml	20.1	14.1	26.1	
Valproic Acid	µmol/l	222	178	266	Behring Emit
	µg/ml	32.0	25.7	38.3	
	µmol/l	203	162	244	Siemens Immulite 1000
	µg/ml	29.3	23.4	35.2	
	µmol/l	211	169	253	Roche Integra
	µg/ml	30.4	24.4	36.4	
	µmol/l	195	156	234	Siemens Immulite 2000/2500
	µg/ml	28.1	22.5	33.7	
	µmol/l	219	153	285	Siemens Centaur XP/XPT/Classic
	µg/ml	31.6	22.1	41.1	
	µmol/l	202	162	242	Vitros
	µg/ml	29.1	23.4	34.8	
	µmol/l	211	169	253	Abbott Architect
	µg/ml	30.4	24.4	36.4	
	µmol/l	183	146	220	Beckman DxC
	µg/ml	26.4	21.1	31.7	
	µmol/l	202	162	242	Roche Cobas E411
	µg/ml	29.1	23.4	34.8	
	µmol/l	202	162	242	Roche Cobas 6000/8000
	µg/ml	29.1	23.4	34.8	
	µmol/l	206	165	247	Beckman AU400/600/640/2700/5400
	µg/ml	29.7	23.8	35.6	
	µmol/l	243	194	291	Gravimetric
	µg/ml	35.0	28.0	42.0	
Vancomycin	µmol/l	3.40	2.72	4.08	Ortho Vitros Microslide Systems
	µg/ml	5.05	4.04	6.06	
	µmol/l	3.65	2.92	4.38	Abbott Architect
	µg/ml	5.42	4.34	6.50	
	µmol/l	3.03	2.42	3.64	Roche Cobas 6000/8000
	µg/ml	4.50	3.60	5.40	
	µmol/l	3.43	2.75	4.12	Gravimetric
	µg/ml	5.10	4.09	6.12	

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1573EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2018-11-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	126	101	151	Roche Elecsys
	pg/ml	171	137	205	
	pmol/l	77.2	61.8	92.6	Beckman Access
	pg/ml	105	83.7	126	
	pmol/l	113	90.4	136	Siemens Immulite 1000
	pg/ml	153	122	184	
	pmol/l	115	80.5	150	Siemens Centaur XP/XPT/Classic
	pg/ml	156	109	203	
	pmol/l	111	88.8	133	Siemens Immulite 2000
	pg/ml	150	120	180	
	pmol/l	129	103	155	Abbott Architect
	pg/ml	175	140	210	
	pmol/l	127	102	152	Vitros ECI
	pg/ml	172	138	206	
	pmol/l	109	87.2	131	Roche Modular E170
	pg/ml	148	118	178	
	pmol/l	79.4	63.5	95.3	Beckman DxI800
	pg/ml	108	86.0	130	
	pmol/l	138	110	166	Roche Cobas E411
	pg/ml	187	149	225	
	pmol/l	106	84.8	127	Roche Cobas 6000/8000
	pg/ml	144	115	173	
	pmol/l	101	70.7	131	Siemens Centaur CP
	pg/ml	137	95.9	178	