

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112

Lot No. 1432EC

Size: 12 x 5 ml / 12 x 5 ml

Expiry: 2017-05

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 2: 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 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
17-OH-Progesterone	nmol/l	41.2	30.4	52.0	Siemens Coat-a-Count
	ng/ml	13.6	10.1	17.1	
25-OH Vitamin D	nmol/l	40.8	30.6	51.0	Diasorin Liaison
	nmol/l	60.8	45.6	76.0	Siemens Centaur XP/Classic
	nmol/l	29.0	21.8	36.3	Roche Cobas E411
	nmol/l	26.4	19.8	33.0	Roche Modular E170
	nmol/l	30.2	22.7	37.8	Roche Cobas 6000/8000
	nmol/l	39.9	29.9	49.9	Abbott Architect
	nmol/l	33.5	25.1	41.9	Beckman Dxl 600/800
ACTH	pmol/l	6.69	5.02	8.36	Siemens Immulite 2000/2500
	pg/ml	30.4	22.8	38.0	
	pmol/l	7.90	5.93	9.88	Roche Cobas E411
	pg/ml	35.9	27.0	44.8	
	pmol/l	7.31	5.48	9.14	Roche Cobas 6000/8000
Aldosterone	pmol/l	288	211	365	Siemens Coat-a-Count
	pg/ml	104	76.1	132	
Alphafoetoprotein	KIU/l = IU/ml	40.2	32.2	48.2	BioMerieux Vidas
	ng/ml	48.6	39.0	58.2	Siemens Immulite 1000
	KIU/l = IU/ml	51.5	36.1	66.9	
	ng/ml	62.3	43.7	80.9	Roche Elecsys
	KIU/l = IU/ml	51.8	41.4	62.2	
	ng/ml	62.7	50.1	75.3	Beckman Access
	KIU/l = IU/ml	50.3	40.2	60.4	
	ng/ml	60.9	48.6	73.2	Vitros ECI
	KIU/l = IU/ml	48.5	38.8	58.2	
	ng/ml	58.7	46.9	70.5	Siemens Centaur XP/Classic
	KIU/l = IU/ml	52.6	41.6	63.6	
	ng/ml	63.6	50.2	77.0	Siemens Immulite 2000/2500
	KIU/l = IU/ml	49.5	39.6	59.4	
	ng/ml	59.9	47.9	71.9	Abbott Architect
	KIU/l = IU/ml	47.3	37.8	56.8	
	ng/ml	57.2	45.7	68.7	Diasorin Liaison
	KIU/l = IU/ml	53.9	43.1	64.7	
	ng/ml	65.2	52.2	78.2	Roche Modular E170
	KIU/l = IU/ml	51.7	41.4	62.0	
	ng/ml	62.6	50.1	75.1	Beckman Dxl800
	KIU/l = IU/ml	45.4	36.3	54.5	
	ng/ml	54.9	43.9	65.9	Roche Cobas 6000/8000
	KIU/l = IU/ml	52.5	42.0	63.0	
	ng/ml	63.5	50.8	76.2	Roche Cobas E411
	KIU/l = IU/ml	52.1	41.7	62.5	
	ng/ml	63.0	50.5	75.5	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Amikacin	µmol/l	15.2	12.2	18.2	Gravimetric
	µg/ml	8.90	7.14	10.7	
Androstenedione	nmol/l	14.7	11.0	18.4	Siemens Immulite 2000
	ng/ml	4.22	3.16	5.28	
Beta-2-microglobulin	µg/ml = mg/l	3.59	2.87	4.31	BioMerieux Vidas
	µg/ml = mg/l	3.31	2.65	3.97	Roche Tinaquant
	µg/ml = mg/l	2.89	2.31	3.47	Siemens Immulite 2000/2500
	µg/ml = mg/l	3.45	2.76	4.14	Abbott Architect
	µg/ml = mg/l	2.74	2.05	3.43	Diasorin Liaison
	µg/ml = mg/l	3.09	2.44	3.74	Roche Modular E170
	µg/ml = mg/l	3.20	2.56	3.84	Roche Cobas 6000/8000
C-Peptide	nmol/l	1.120	0.829	1.410	Siemens Immulite 2000/2500
	ng/ml	3.38	2.50	4.26	
	nmol/l	1.420	1.070	1.780	Roche Cobas 6000/8000
	ng/ml	4.29	3.23	5.35	
	nmol/l	1.420	1.070	1.780	Roche Cobas E411
	ng/ml	4.29	3.23	5.35	
	nmol/l	1.200	0.900	1.500	Roche Modular E170
	ng/ml	3.62	2.72	4.52	
	nmol/l	0.890	0.668	1.110	Abbott Architect
	ng/ml	2.69	2.02	3.36	
CA 15-3	U/ml	42.8	34.2	51.4	Roche Elecsys
	U/ml	41.9	33.5	50.3	BioMerieux Vidas
	U/ml	46.0	31.3	60.7	Siemens Centaur XP/Classic
	U/ml	46.4	37.1	55.7	Abbott Architect
	U/ml	52.8	42.2	63.4	Siemens Immulite 2000/2500
	U/ml	57.9	43.4	72.4	Siemens Immulite 1000
	U/ml	37.9	30.3	45.5	Vitros ECI
	U/ml	42.2	33.8	50.6	Roche Modular E170
	U/ml	22.8	18.2	27.4	Beckman Dxl800
	U/ml	42.9	34.3	51.5	Roche Cobas 6000/8000
	U/ml	43.3	34.6	52.0	Roche Cobas E411
CA 19-9	U/ml	73.5	58.8	88.2	Abbott AXSYM
	U/ml	75.1	60.1	90.1	BioMerieux Vidas
	U/ml	57.1	45.7	68.5	Roche Elecsys
	U/ml	66.8	45.4	88.2	Siemens Centaur XP/Classic
	U/ml	55.3	44.2	66.4	Siemens Immulite 2000/2500
	U/ml	204	152	256	Abbott Architect
	U/ml	104	83.2	125	Vitros ECI
	U/ml	70.3	52.7	87.9	Diasorin Liaison
	U/ml	54.8	43.8	65.8	Roche Modular E170
	U/ml	56.9	45.5	68.3	Beckman Access
	U/ml	52.9	42.3	63.5	Beckman Dxl800

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

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Range					
Analyte	unit	target	low	high	methods
CA 19-9	U/ml	204	163	245	Abbott Architect XR kit
	U/ml	55.8	44.6	67.0	Roche Cobas 6000/8000
	U/ml	56.8	45.4	68.2	Roche Cobas E411
CA125	U/ml	169	134	204	Siemens Immulite 1000
	U/ml	142	114	170	BioMerieux Vidas
	U/ml	128	102	154	Roche Elecsys
	U/ml	147	100	194	Siemens Centaur XP/Classic OV Kit
	U/ml	145	116	174	Siemens Immulite 2000/2500
	U/ml	122	97.6	146	Vitros ECI
	U/ml	180	144	216	Diasorin Liaison
	U/ml	127	102	152	Roche Modular E170
	U/ml	188	150	226	Abbott Architect
	U/ml	139	94.5	184	Siemens Centaur XP/Classic CA125 II kit
	U/ml	116	92.8	139	Beckman Dxl800
	U/ml	128	102	154	Roche Cobas E411
	U/ml	127	102	152	Roche Cobas 6000/8000
Carbamazepine	µmol/l	34.4	26.1	42.7	Vitros
	µg/ml	8.13	6.17	10.1	
	µmol/l	37.6	30.1	45.1	Abbott AXSYM
	µg/ml	8.89	7.12	10.7	
	µmol/l	39.2	27.4	51.0	Siemens Centaur XP/Classic
	µg/ml	9.27	6.49	12.1	
	µmol/l	36.5	29.2	43.8	Siemens Immulite 1000
	µg/ml	8.63	6.90	10.4	
	µmol/l	37.9	30.3	45.5	Roche Integra
	µg/ml	8.96	7.16	10.8	
	µmol/l	33.2	26.6	39.8	Siemens Immulite 2000/2500
	µg/ml	7.85	6.29	9.41	
	µmol/l	37.7	30.2	45.2	Siemens Dimension
	µg/ml	8.91	7.14	10.7	
	µmol/l	38.4	30.7	46.1	Abbott Architect
	µg/ml	9.08	7.26	10.9	
	µmol/l	36.3	29.0	43.6	Beckman DxC
	µg/ml	8.58	6.86	10.3	
	µmol/l	35.6	28.5	42.7	Roche Cobas E411
	µg/ml	8.42	6.74	10.1	
	µmol/l	35.8	28.6	43.0	Roche Cobas 6000/8000
	µg/ml	8.46	6.76	10.2	
	µmol/l	33.8	27.0	40.6	Roche Modular
	µg/ml	7.99	6.38	9.60	
	µmol/l	38.5	30.8	46.2	Gravimetric
	µg/ml	9.10	7.28	10.9	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	23.5	18.8	28.2	BioMerieux Vidas
	ng/ml = µg/l	29.3	23.4	35.2	Siemens Immulite 1000
	ng/ml = µg/l	20.9	16.7	25.1	Roche Elecsys
	ng/ml = µg/l	25.0	20.0	30.0	Vitros ECI

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	25.4	20.3	30.5	Beckman Access
	ng/ml = µg/l	22.3	15.2	29.4	Siemens Centaur XP/Classic
	ng/ml = µg/l	31.9	25.5	38.3	Siemens Immulite 2000/2500
	ng/ml = µg/l	24.6	19.7	29.5	Abbott Architect
	ng/ml = µg/l	23.5	18.8	28.2	Diasorin Liaison
	ng/ml = µg/l	21.1	16.9	25.3	Roche Modular E170
	ng/ml = µg/l	23.5	18.8	28.2	Beckman Dxl800
	ng/ml = µg/l	21.2	17.0	25.4	Roche Cobas 6000/8000
	ng/ml = µg/l	21.6	17.3	25.9	Roche Cobas E411
Cortisol	nmol/l	660	495	825	BioMerieux Vidas
	µg/dl	23.8	17.8	29.8	
	nmol/l	709	532	886	Siemens Immulite 1000
	µg/dl	25.5	19.2	31.8	
	nmol/l	767	575	959	Siemens Coat-a-Count
	µg/dl	27.6	20.7	34.5	
	nmol/l	695	521	869	Roche Elecsys
	µg/dl	25.0	18.8	31.2	
	nmol/l	629	472	786	Beckman Access
	µg/dl	22.6	17.0	28.2	
	nmol/l	667	500	834	Tosoh AIA360
	µg/dl	24.0	18.0	30.0	
	nmol/l	710	490	930	Siemens Centaur XP/Classic
	µg/dl	25.6	17.7	33.5	
	nmol/l	631	473	789	Siemens Immulite 2000/2500
	µg/dl	22.7	17.0	28.4	
	nmol/l	572	429	715	Vitros ECI
	µg/dl	20.6	15.4	25.8	
	nmol/l	552	414	690	Abbott Architect
	µg/dl	19.9	14.9	24.9	
	nmol/l	686	515	858	Diasorin Liaison
	µg/dl	24.7	18.5	30.9	
	nmol/l	694	521	868	Roche Modular E170
	µg/dl	25.0	18.8	31.2	
	nmol/l	621	466	776	Beckman Dxl800
	µg/dl	22.4	16.8	28.0	
	nmol/l	695	521	869	Roche Cobas 6000/8000
	µg/dl	25.0	18.8	31.2	
	nmol/l	717	538	896	Roche Cobas E411
	µg/dl	25.8	19.4	32.2	
DHEA-S	µmol/l	14.8	11.2	18.4	Siemens Immulite 1000
	µmol/l	14.0	11.2	16.8	Siemens Immulite 2000/2500
	µmol/l	18.4	14.7	22.1	Roche Elecsys
	µmol/l	19.0	15.2	22.8	Roche Modular E170
	µmol/l	16.8	13.4	20.2	Abbott Architect
	µmol/l	14.2	11.4	17.0	Beckman Dxl800
	µmol/l	14.6	9.49	19.7	Siemens Centaur XP/Classic

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
DHEA-S	µmol/l	12.8	10.2	15.4	Diasorin Liaison
	µmol/l	18.8	15.0	22.6	Roche Cobas E411
	µmol/l	19.0	15.2	22.8	Roche Cobas 6000/8000
Digoxin	nmol/l	2.98	2.38	3.58	Beckman Access
	ng/ml	2.33	1.86	2.80	
	nmol/l	2.94	2.35	3.53	Abbott AXSYM
	ng/ml	2.30	1.84	2.76	
	nmol/l	2.98	2.38	3.58	Vitros
	ng/ml	2.33	1.86	2.80	
	nmol/l	3.09	2.47	3.71	Roche Integra
	ng/ml	2.41	1.93	2.89	
	nmol/l	3.18	2.53	3.83	Siemens Immulite 2000/2500
	ng/ml	2.48	1.98	2.98	
	nmol/l	3.26	2.51	4.01	Siemens Centaur XP/Classic
	ng/ml	2.55	1.96	3.14	
	nmol/l	2.90	2.32	3.48	Vitros Eci
	ng/ml	2.26	1.81	2.71	
	nmol/l	3.66	2.93	4.39	Roche Modular E170
	ng/ml	2.86	2.29	3.43	
	nmol/l	2.65	2.12	3.18	Abbott Architect
	ng/ml	2.07	1.66	2.48	
	nmol/l	3.16	2.53	3.79	Siemens Dimension
	ng/ml	2.47	1.98	2.96	
	nmol/l	3.07	2.46	3.68	Beckman Dxl800
	ng/ml	2.40	1.92	2.88	
	nmol/l	2.71	2.17	3.25	Beckman DxC
	ng/ml	2.12	1.69	2.55	
	nmol/l	3.53	2.82	4.24	Roche Cobas E411
	ng/ml	2.76	2.20	3.32	
	nmol/l	3.51	2.46	4.56	Roche Cobas 6000/8000
	ng/ml	2.74	1.92	3.56	
	nmol/l	3.07	2.46	3.68	Gravimetric
	ng/ml	2.40	1.92	2.87	
Ethosuximide	µmol/l	360	288	432	Gravimetric
	µg/ml	51.0	40.8	61.3	
Ferritin	ng/ml = µg/l	102	81.6	122	Abbott AXSYM
	ng/ml = µg/l	92.3	69.2	115	BioMerieux Vidas
	ng/ml = µg/l	88.8	71.0	107	Siemens Immulite 1000
	ng/ml = µg/l	102	81.6	122	Roche Elecsys
	ng/ml = µg/l	70.2	56.2	84.2	Beckman Access
	ng/ml = µg/l	67.6	54.1	81.1	Vitros Eci
	ng/ml = µg/l	86.6	65.0	108	Siemens Centaur XP/Classic
	ng/ml = µg/l	95.0	76.0	114	Siemens Immulite 2000/2500
	ng/ml = µg/l	103	82.4	124	Abbott Architect
	ng/ml = µg/l	88.6	62.9	114	Diasorin Liaison
	ng/ml = µg/l	97.6	78.1	117	Roche Modular E170

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Ferritin	ng/ml = µg/l	86.6	69.3	104	Siemens Dimension
	ng/ml = µg/l	68.2	54.6	81.8	Beckman Dxl800
	ng/ml = µg/l	103	82.4	124	Roche Cobas E411
	ng/ml = µg/l	98.9	79.1	119	Roche Cobas 6000/8000
Folate	nmol/l	10.3	7.83	12.8	Beckman Access
	ng/ml	4.54	3.45	5.63	
	nmol/l	13.7	10.4	17.0	Roche Elecsys
	ng/ml	6.04	4.59	7.49	
	nmol/l	8.12	6.17	10.1	Siemens Immulite 2000
	ng/ml	3.58	2.72	4.44	
	nmol/l	5.80	4.41	7.19	Vitros ECI
	ng/ml	2.56	1.94	3.18	
	nmol/l	8.80	6.69	10.9	Abbott Architect
	ng/ml	3.88	2.95	4.81	
	nmol/l	13.5	10.3	16.7	Roche Modular E170
	ng/ml	5.95	4.54	7.36	
	nmol/l	20.9	13.6	28.2	Siemens Centaur XP/Classic (enhanced kit)
	ng/ml	9.22	5.99	12.5	
	nmol/l	10.6	8.06	13.1	Beckman Dxl800
	ng/ml	4.67	3.55	5.79	
	nmol/l	12.9	9.80	16.0	Roche Cobas E411
	ng/ml	5.69	4.32	7.06	
	nmol/l	13.2	10.0	16.4	Roche Cobas 6000/8000
	ng/ml	5.82	4.41	7.23	
Free T3	pmol/l	24.9	18.7	31.1	Tosoh AIA360
	ng/dl	1.62	1.22	2.02	
	pg/ml	16.2	12.2	20.2	
	pmol/l	17.1	12.8	21.4	BioMerieux Vidas
	ng/dl	1.11	0.832	1.39	
	pg/ml	11.1	8.33	13.9	
	pmol/l	19.1	14.3	23.9	Roche Elecsys
	ng/dl	1.24	0.930	1.55	
	pg/ml	12.4	9.31	15.5	
	pmol/l	13.8	10.4	17.3	Beckman Access
	ng/dl	0.897	0.676	1.12	
	pg/ml	8.98	6.77	11.2	
	pmol/l	11.9	8.93	14.9	Siemens Immulite 1000
	ng/dl	0.774	0.580	0.968	
	pg/ml	7.75	5.81	9.69	
	pmol/l	33.9	25.4	42.4	Vitros ECI
	ng/dl	2.20	1.65	2.75	
	pg/ml	22.1	16.5	27.7	
	pmol/l	15.8	9.48	22.1	Siemens Centaur XP/Classic
	ng/dl	1.03	0.618	1.44	
	pg/ml	10.3	6.18	14.4	
	pmol/l	12.7	9.53	15.9	Siemens Immulite 2000/2500
	ng/dl	0.826	0.619	1.03	
	pg/ml	8.27	6.20	10.3	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Free T3	pmol/l	14.9	11.2	18.6	Abbott Architect
	ng/dl	0.969	0.728	1.21	
	pg/ml	9.70	7.29	12.1	
	pmol/l	21.9	16.4	27.4	Diasorin Liaison
	ng/dl	1.42	1.07	1.77	
	pg/ml	14.3	10.7	17.9	
	pmol/l	19.3	14.5	24.1	Roche Modular E170
	ng/dl	1.25	0.943	1.56	
	pg/ml	12.6	9.44	15.8	
	pmol/l	12.8	9.60	16.0	Beckman Dxl800
	ng/dl	0.832	0.624	1.04	
	pg/ml	8.33	6.25	10.4	
	pmol/l	19.2	14.4	24.0	Roche Cobas E411
	ng/dl	1.25	0.936	1.56	
	pg/ml	12.5	9.37	15.6	
	pmol/l	19.3	14.5	24.1	Roche Cobas 6000/8000
	ng/dl	1.25	0.943	1.56	
	pg/ml	12.6	9.44	15.8	
Free T4	pmol/l	45.5	34.1	56.9	BioMerieux Vidas
	ng/dl	3.55	2.66	4.44	
	pg/ml	35.5	26.6	44.4	
	pmol/l	40.3	30.2	50.4	Siemens Immulite 1000
	ng/dl	3.14	2.36	3.92	
	pg/ml	31.4	23.6	39.2	
	pmol/l	40.8	30.6	51.0	Roche Elecsys
	ng/dl	3.18	2.39	3.97	
	pg/ml	31.8	23.9	39.7	
	pmol/l	34.1	25.6	42.6	Beckman Access
	ng/dl	2.66	2.00	3.32	
	pg/ml	26.6	20.0	33.2	
	pmol/l	37.1	27.8	46.4	Tosoh AIA360
	ng/dl	2.89	2.17	3.61	
	pg/ml	28.9	21.7	36.1	
	pmol/l	77.4	58.1	96.8	Vitros ECI
	ng/dl	6.04	4.53	7.55	
	pg/ml	60.4	45.3	75.5	
	pmol/l	29.7	22.3	37.1	Siemens Centaur XP/Classic
	ng/dl	2.32	1.74	2.90	
	pg/ml	23.2	17.4	29.0	
	pmol/l	40.2	30.2	50.3	Siemens Immulite 2000/2500
	ng/dl	3.14	2.36	3.92	
	pg/ml	31.4	23.6	39.2	
	pmol/l	30.0	22.5	37.5	Abbott Architect
	ng/dl	2.34	1.76	2.92	
	pg/ml	23.4	17.6	29.2	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Free T4	pmol/l	46.7	35.0	58.4	Diasorin Liaison
	ng/dl	3.64	2.73	4.55	
	pg/ml	36.4	27.3	45.5	
	pmol/l	40.2	30.2	50.3	Roche Modular E170
	ng/dl	3.14	2.36	3.92	
	pg/ml	31.4	23.6	39.2	
	pmol/l	35.0	26.3	43.8	Beckman DxI800
	ng/dl	2.73	2.05	3.41	
	pg/ml	27.3	20.5	34.1	
	pmol/l	40.7	30.5	50.9	Roche Cobas 6000/8000
	ng/dl	3.17	2.38	3.96	
	pg/ml	31.7	23.8	39.6	
	pmol/l	40.9	30.7	51.1	Roche Cobas E411
	ng/dl	3.19	2.39	3.99	
	pg/ml	31.9	23.9	39.9	
	pmol/l	29.0	21.8	36.3	Monobind Inc. ELISA / CLIA
	ng/dl	2.26	1.70	2.82	
	pg/ml	22.6	17.0	28.2	
	pmol/l	36.2	27.2	45.3	Siemens Dimension Vista LOCI
	ng/dl	2.82	2.12	3.52	
	pg/ml	28.2	21.2	35.2	
FSH	mU/ml	24.4	19.5	29.3	Tosoh AIA360
	mU/ml	22.6	18.1	27.1	Siemens Immulite 1000
	mU/ml	29.3	23.4	35.2	BioMerieux Vidas
	mU/ml	26.4	21.1	31.7	Beckman Access
	mU/ml	25.1	20.1	30.1	Roche/BM Elecsys
	mU/ml	18.5	14.8	22.2	Vitros ECI
	mU/ml	27.1	20.3	33.9	Siemens Centaur XP/Classic
	mU/ml	24.4	19.5	29.3	Siemens Immulite 2000/2500
	mU/ml	21.8	17.4	26.2	Abbott Architect
	mU/ml	29.8	23.8	35.8	Diasorin Liaison
	mU/ml	23.5	18.8	28.2	Roche Modular E170
	mU/ml	25.6	20.5	30.7	Beckman DxI800
	mU/ml	25.3	20.2	30.4	Roche Cobas E411
	mU/ml	23.8	19.0	28.6	Roche Cobas 6000/8000
Gentamicin	µmol/l	8.27	6.51	10.0	Beckman DxC
	µg/ml	3.95	3.11	4.79	
	µmol/l	8.16	6.53	9.79	Gravimetric
	µg/ml	3.90	3.12	4.68	
Growth Hormone (GH)	µU/ml	14.4	11.5	17.3	Beckman Access
	ng/ml	4.80	3.83	5.77	
	µU/ml	16.1	12.9	19.3	Siemens Immulite 1000
	ng/ml	5.36	4.30	6.42	
	µU/ml	19.0	15.2	22.8	Siemens Immulite 2000/2500
	ng/ml	6.33	5.06	7.60	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Growth Hormone (GH)	µU/ml	14.9	11.9	17.9	Roche Modular E170
	ng/ml	4.96	3.96	5.96	
	µU/ml	12.7	10.2	15.2	Beckman Dxl800
	ng/ml	4.23	3.40	5.06	
	µU/ml	15.6	12.5	18.7	Diasorin Liaison
	ng/ml	5.19	4.16	6.22	
	µU/ml	15.7	12.6	18.8	Roche Cobas E411
	ng/ml	5.23	4.20	6.26	
Immunoglobulin E	µU/ml	15.2	12.2	18.2	Roche Cobas 6000/8000
	ng/ml	5.06	4.06	6.06	
	KIU/I = IU/ml	119	95.2	143	Siemens Immulite 1000
	KIU/I = IU/ml	85.2	67.7	103	BioMerieux Vidas
	KIU/I = IU/ml	102	80.7	123	Beckman Access
	KIU/I = IU/ml	106	84.8	127	Roche Elecsys
	KIU/I = IU/ml	96.6	77.3	116	Tosoh AIA360
	KIU/I = IU/ml	93.5	56.1	131	Siemens Centaur XP/Classic
	KIU/I = IU/ml	117	93.6	140	Siemens Immulite 2000/2500
	KIU/I = IU/ml	103	82.4	124	Roche Modular E170
	KIU/I = IU/ml	97.6	78.1	117	Beckman Dxl800
	KIU/I = IU/ml	81.2	63.8	98.6	Abbott Architect
	KIU/I = IU/ml	107	85.6	128	Roche Cobas E411
	KIU/I = IU/ml	106	84.8	127	Roche Cobas 6000/8000
Insulin	KIU/I = IU/ml	118	94.4	142	Human Elisys UNO
	KIU/I = IU/ml	93.8	67.1	121	Monobind Inc. ELISA / CLIA
	mU/I	12.4	9.30	15.5	Siemens Centaur XP/Classic
	mU/I	6.87	5.15	8.59	Roche Modular E170
	mU/I	2.86	2.00	3.72	Siemens Immulite 2000
	mU/I	6.62	4.97	8.28	Roche Elecsys
	mU/I	9.52	7.14	11.9	Beckman Access
	mU/I	9.09	6.82	11.4	Abbott Architect
	mU/I	6.92	5.19	8.65	Roche Cobas E411
	mU/I	6.91	5.18	8.64	Roche Cobas 6000/8000
Luteinising Hormone (LH)	mU/I	8.87	6.65	11.1	Beckman Dxl 600/800
	mU/I	8.43	6.32	10.5	Diasorin Liaison
	mU/ml	20.1	16.1	24.1	Beckman Access
	mU/ml	23.5	18.8	28.2	BioMerieux Vidas
	mU/ml	56.4	45.1	67.7	Siemens Immulite 1000
	mU/ml	24.4	19.5	29.3	Tosoh AIA360
	mU/ml	27.5	22.0	33.0	Roche Elecsys
	mU/ml	45.4	36.3	54.5	Vitros ECI
	mU/ml	25.3	19.5	31.1	Siemens Centaur XP/Classic
	mU/ml	56.5	45.2	67.8	Siemens Immulite 2000
	mU/ml	22.1	17.7	26.5	Abbott Architect
	mU/ml	34.9	27.9	41.9	Diasorin Liaison
	mU/ml	26.5	21.2	31.8	Roche Modular E170
	mU/ml	20.4	16.3	24.5	Beckman Dxl800

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Luteinising Hormone (LH)	mU/ml	26.9	21.5	32.3	Roche Cobas E411
	mU/ml	27.2	21.8	32.6	Roche Cobas 6000/8000
	mU/ml	37.3	29.8	44.8	Human Elisys UNO
Oestradiol	pmol/l	1158	926	1390	BioMerieux Vidas
	pg/ml	315	252	378	
	pmol/l	1171	937	1405	Siemens Immulite 1000
	pg/ml	319	255	383	
	pmol/l	938	750	1126	Roche Elecsys
	pg/ml	255	204	306	
	pmol/l	967	774	1160	Vitros ECI
	pg/ml	263	211	315	
	pmol/l	1090	872	1308	Beckman Access
	pg/ml	296	237	355	
	pmol/l	1168	701	1635	Siemens Centaur XP/Classic
	pg/ml	318	191	445	
	pmol/l	1148	918	1378	Siemens Immulite 2000/2500
	pg/ml	312	250	374	
	pmol/l	818	654	982	Abbott Architect
	pg/ml	222	178	266	
	pmol/l	939	751	1127	Roche Modular E170
	pg/ml	255	204	306	
	pmol/l	1011	809	1213	Beckman Dxl800
	pg/ml	275	220	330	
Paracetamol	pmol/l	949	759	1139	Roche Cobas 6000/8000
	pg/ml	258	206	310	
	pmol/l	952	762	1142	Roche Cobas E411
	pg/ml	259	207	311	
	pmol/l	1048	629	1467	Siemens Centaur XP/Classic Enhanced (eE2)
	pg/ml	285	171	399	
	mmol/l	0.366	0.293	0.439	Abbott AXSYM
	mg/l	55.4	44.3	66.5	
	mmol/l	0.287	0.224	0.350	Roche Integra
	mg/l	43.4	33.9	52.9	
	mmol/l	0.395	0.316	0.474	Vitros
	mg/l	59.8	47.8	71.8	
Parathyroid Hormone (PTH)	mmol/l	0.318	0.254	0.382	Abbott Architect
	mg/l	48.1	38.4	57.8	
	mmol/l	0.345	0.276	0.414	Siemens Centaur XP/Classic
	mg/l	52.2	41.8	62.6	
	mmol/l	0.348	0.280	0.420	Gravimetric
	mg/l	52.7	42.4	63.5	
	pmol/l	13.3	9.98	16.6	Siemens Centaur XP/Classic
	pg/ml	126	94.8	157	
	pmol/l	9.30	6.79	11.8	Siemens Immulite 1000
	pg/ml	88.3	64.5	112	
	pmol/l	10.5	7.64	13.4	Siemens Immulite 2000
	pg/ml	99.7	72.6	127	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Parathyroid Hormone (PTH)	pmol/l	7.27	5.09	9.45	Roche Elecsys PTH/PTH STAT
	pg/ml	69.0	48.3	89.7	
	pmol/l	6.97	5.23	8.71	Roche Modular E170 PTH/PTH STAT
	pg/ml	66.2	49.7	82.7	
	pmol/l	14.6	10.2	19.0	Abbott Architect
	pg/ml	139	97.3	181	
	pmol/l	8.20	6.13	10.3	Roche Cobas 4000/e411 PTH/PTH STAT
	pg/ml	77.9	58.2	97.6	
	pmol/l	7.98	5.99	9.98	Roche Cobas 6000/8000 PTH/PTH STAT
	pg/ml	75.8	56.9	94.7	
Phenobarbital	pmol/l	8.85	6.64	11.1	Beckman DxI800
	pg/ml	84.0	63.1	105	
	µmol/l	71.9	57.5	86.3	Abbott AXSYM
	µg/ml	16.7	13.3	20.1	
	µmol/l	81.6	65.3	97.9	Abbott Architect
	µg/ml	18.9	15.1	22.7	
	µmol/l	80.6	64.0	97.2	Siemens Immulite 2000/2500
	µg/ml	18.7	14.8	22.6	
	µmol/l	81.4	65.1	97.7	Roche Modular P-D
	µg/ml	18.9	15.1	22.7	
	µmol/l	74.8	59.8	89.8	Beckman AU400/600/640/2700/5400
	µg/ml	17.4	13.9	20.9	
	µmol/l	81.5	58.7	104	Siemens Centaur XP/Classic
	µg/ml	18.9	13.6	24.2	
Phenytoin	µmol/l	80.1	64.1	96.1	Beckman DxC
	µg/ml	18.6	14.9	22.3	
	µmol/l	77.6	62.1	93.1	Gravimetric
	µg/ml	18.0	14.4	21.6	
	µmol/l	76.2	56.7	95.7	Siemens Centaur XP/Classic
	µg/ml	19.2	14.3	24.1	
	µmol/l	61.6	46.6	76.6	Abbott AXSYM
	µg/ml	15.6	11.8	19.4	
	µmol/l	64.7	51.8	77.6	Vitros
	µg/ml	16.3	13.1	19.5	
	µmol/l	62.6	50.1	75.1	Siemens Immulite 1000
	µg/ml	15.8	12.7	18.9	
	µmol/l	67.3	53.8	80.8	Roche Integra
	µg/ml	17.0	13.6	20.4	
	µmol/l	79.6	60.2	99.0	Siemens Dimension
	µg/ml	20.1	15.2	25.0	
	µmol/l	66.7	53.4	80.0	Abbott Architect
	µg/ml	16.8	13.5	20.1	
	µmol/l	67.4	53.9	80.9	Beckman DxC
	µg/ml	17.0	13.6	20.4	
	µmol/l	69.9	55.9	83.9	Roche Modular P-D
	µg/ml	17.6	14.1	21.1	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Phenytoin	μmol/l	59.7	47.8	71.6	Roche Cobas E411
	μg/ml	15.1	12.1	18.1	
	μmol/l	66.4	53.1	79.7	Roche Cobas 6000/8000
	μg/ml	16.8	13.4	20.2	
	μmol/l	71.3	57.0	85.6	Gravimetric
	μg/ml	18.0	14.4	21.6	
Primidone	μmol/l	22.5	18.0	27.0	Gravimetric
	μg/ml	4.91	3.93	5.89	
Progesterone	nmol/l	36.2	29.0	43.4	Beckman Access Prog Cal 33555
	ng/ml	11.3	9.08	13.5	
	nmol/l	27.0	21.6	32.4	Siemens Immulite 1000
	ng/ml	8.45	6.76	10.1	
	nmol/l	37.5	30.0	45.0	Tosoh AIA360
	ng/ml	11.7	9.39	14.0	
	nmol/l	39.9	31.9	47.9	BioMerieux Vidas
	ng/ml	12.5	9.98	15.0	
	nmol/l	33.4	26.7	40.1	Roche Elecsys
	ng/ml	10.5	8.36	12.6	
	nmol/l	36.1	28.9	43.3	Vitros ECI
	ng/ml	11.3	9.05	13.6	
	nmol/l	23.7	16.6	30.8	Siemens Centaur XP/Classic
	ng/ml	7.42	5.19	9.65	
	nmol/l	28.4	22.7	34.1	Siemens Immulite 2000/2500
	ng/ml	8.89	7.11	10.7	
	nmol/l	25.7	20.6	30.8	Abbott Architect
	ng/ml	8.04	6.45	9.63	
	nmol/l	32.5	26.0	39.0	Roche Modular E170
	ng/ml	10.2	8.14	12.3	
	nmol/l	32.0	25.6	38.4	Beckman Dxl Prog Cal 33555
	ng/ml	10.0	8.01	12.0	
	nmol/l	31.1	24.9	37.3	Diasorin Liaison
	ng/ml	9.73	7.79	11.7	
	nmol/l	33.2	26.6	39.8	Roche Cobas E411
	ng/ml	10.4	8.33	12.5	
	nmol/l	32.7	26.2	39.2	Roche Cobas 6000/8000
	ng/ml	10.2	8.20	12.2	
	nmol/l	26.3	21.0	31.6	Beckman Dxl Prog DE Cal A80773
	ng/ml	8.23	6.57	9.89	
Prolactin	μU/ml	457	366	548	Beckman Access
	μU/ml	389	311	467	BioMerieux Vidas
	μU/ml	684	547	821	Siemens Immulite 1000
	μU/ml	159	127	191	Tosoh AIA360
	μU/ml	734	587	881	Roche Elecsys
	μU/ml	432	346	518	Vitros ECI
	μU/ml	489	381	597	Siemens Centaur XP/Classic

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Prolactin	µU/ml	671	537	805	Siemens Immulite 2000/2500
	µU/ml	605	484	726	Abbott Architect
	µU/ml	703	562	844	Diasorin Liaison
	µU/ml	730	584	876	Roche Modular E170
	µU/ml	419	335	503	Beckman Dxl800
	µU/ml	743	594	892	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	749	599	899	Roche Cobas E411
	µU/ml	719	575	863	Roche Cobas 6000/8000
	µU/ml	612	490	734	Abbott Architect restandardised
PSA Free	ng/ml = µg/l	9.14	6.86	11.4	Siemens Immulite 1000
	ng/ml = µg/l	8.68	6.51	10.9	Siemens Immulite 2000/2500
	ng/ml = µg/l	9.47	7.10	11.8	Roche Elecsys
	ng/ml = µg/l	9.52	7.14	11.9	Abbott Architect
	ng/ml = µg/l	12.5	9.38	15.6	Beckman Access standardised to Hybritech
	ng/ml = µg/l	10.4	7.80	13.0	Siemens Centaur XP/Classic
	ng/ml = µg/l	9.32	6.99	11.7	Roche Modular E170
	ng/ml = µg/l	12.3	9.23	15.4	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	9.63	7.22	12.0	Roche Cobas E411
	ng/ml = µg/l	9.56	7.17	12.0	Roche Cobas 6000/8000
	ng/ml = µg/l	9.25	6.94	11.6	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	8.81	6.61	11.0	Ortho Vitros 3600/5600/ECi PSA II
PSA Total	ng/ml = µg/l	9.91	7.43	12.4	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	13.1	9.83	16.4	Roche Elecsys
	ng/ml = µg/l	8.89	6.67	11.1	Tosoh AIA360
	ng/ml = µg/l	11.8	8.85	14.8	Beckman Access standardised to Hybritech
	ng/ml = µg/l	10.4	7.80	13.0	Siemens Centaur XP/Classic
	ng/ml = µg/l	11.9	8.93	14.9	bioMerieux VIDAS TPSA
	ng/ml = µg/l	10.5	7.88	13.1	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	10.9	8.18	13.6	Abbott Architect
	ng/ml = µg/l	9.93	7.45	12.4	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	10.2	7.65	12.8	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	13.3	9.98	16.6	Vitros ECi
	ng/ml = µg/l	6.73	5.05	8.41	Diasorin Liaison
	ng/ml = µg/l	13.2	9.90	16.5	Roche Modular E170
	ng/ml = µg/l	11.3	8.48	14.1	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	11.9	8.93	14.9	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	9.58	7.19	12.0	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	13.3	9.98	16.6	Roche Cobas E411
	ng/ml = µg/l	13.3	9.98	16.6	Roche Cobas 6000/8000
	ng/ml = µg/l	13.3	9.98	16.6	Ortho Vitros 3600/5600/ECi PSA II
Salicylic Acid	mmol/l	1.32	1.06	1.58	Vitros
	mg/dl	18.2	14.6	21.8	
	mmol/l	1.21	0.968	1.45	Abbott Architect
	mg/dl	16.7	13.4	20.0	
	mmol/l	1.30	1.04	1.56	Beckman DxC
	mg/dl	18.0	14.4	21.6	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Salicylic Acid	mmol/l	1.22	0.980	1.46	Gravimetric
	mg/dl	16.9	13.5	20.2	
SHBG	nmol/l	53.0	40.9	65.1	Siemens Centaur XP/Classic
	nmol/l	41.3	31.1	51.5	Siemens Immulite 1000
	nmol/l	42.1	31.7	52.5	Siemens Immulite 2000/2500
	nmol/l	41.3	33.0	49.6	Roche Elecsys
	nmol/l	39.3	31.4	47.2	Roche Modular E170
	nmol/l	47.5	38.0	57.0	Abbott Architect
	nmol/l	41.5	33.2	49.8	Roche Cobas E411
	nmol/l	40.5	32.4	48.6	Roche Cobas 6000/8000
	nmol/l	39.8	31.8	47.8	Beckman Dxl800
T Uptake	%U	37.5	30.8	44.3	Siemens Immulite 2000
Testosterone	nmol/l	17.8	14.2	21.4	Siemens Immulite 1000
	ng/ml	5.13	4.09	6.17	
	ng/dl	513	409	617	
	nmol/l	16.8	13.4	20.2	Vitros ECI
	ng/ml	4.84	3.86	5.82	
	ng/dl	484	386	582	
	nmol/l	11.3	7.91	14.7	Siemens Centaur XP/Classic
	ng/ml	3.25	2.28	4.22	
	ng/dl	325	228	422	
	nmol/l	17.7	14.2	21.2	Siemens Immulite 2000/2500
	ng/ml	5.10	4.09	6.11	
	ng/dl	510	409	611	
	nmol/l	13.9	11.1	16.7	Abbott Architect
	ng/ml	4.00	3.20	4.80	
	ng/dl	400	320	480	
	nmol/l	22.3	17.8	26.8	BioMerieux Vidas
	ng/ml	6.42	5.13	7.71	
	ng/dl	642	513	771	
	nmol/l	12.4	9.92	14.9	Beckman Access
	ng/ml	3.57	2.86	4.28	
	ng/dl	357	286	428	
	nmol/l	17.7	12.9	22.5	Tosoh AIA360
	ng/ml	5.10	3.72	6.48	
	ng/dl	510	372	648	
	nmol/l	11.5	9.20	13.8	Beckman Dxl800
	ng/ml	3.31	2.65	3.97	
	ng/dl	331	265	397	
	nmol/l	16.2	13.0	19.4	Roche Elecsys Test II
	ng/ml	4.67	3.74	5.60	
	ng/dl	467	374	560	
	nmol/l	15.6	12.5	18.7	Roche Modular E170 Test II
	ng/ml	4.49	3.60	5.38	
	ng/dl	449	360	538	
	nmol/l	16.2	13.0	19.4	Roche Cobas 4000/e411 Test II
	ng/ml	4.67	3.74	5.60	
	ng/dl	467	374	560	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Testosterone	nmol/l	15.7	12.6	18.8	Roche Cobas 6000 Test 2
	ng/ml	4.52	3.63	5.41	
	ng/dl	452	363	541	
	nmol/l	13.8	11.0	16.6	Abbott Architect 2nd Generation
	ng/ml	3.97	3.17	4.77	
	ng/dl	397	317	477	
Theophylline	µmol/l	99.2	76.1	122	Vitros
	µg/ml	17.9	13.7	22.1	
	µmol/l	82.6	66.1	99.0	Siemens Dimension
	µg/ml	14.9	11.9	17.9	
	µmol/l	83.0	66.4	100	Abbott Architect
	µg/ml	15.0	12.0	18.0	
	µmol/l	75.7	60.6	90.8	Beckman DxC
	µg/ml	13.6	10.9	16.3	
Thyroglobulin	µmol/l	83.8	67.0	101	Gravimetric
	µg/ml	15.1	12.1	18.2	
	ng/ml	17.0	12.8	21.3	Siemens Immulite 1000
	ng/ml	17.7	13.3	22.1	Siemens Immulite 2000
	ng/ml	37.7	28.3	47.1	Roche Elecsys
	ng/ml	40.7	30.5	50.9	Roche Modular E170
	ng/ml	35.9	26.9	44.9	Beckman Access
	ng/ml	35.5	26.6	44.4	Beckman Dxl800
Thyroid Stimulating Hormone	ng/ml	41.3	31.0	51.6	Roche Cobas E411
	ng/ml	37.8	28.4	47.3	Roche Cobas 6000/8000
	µU/ml = mIU/l	2.57	2.06	3.08	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.42	1.94	2.90	Siemens Immulite 1000
	µU/ml = mIU/l	2.60	2.08	3.12	Roche Elecsys
	µU/ml = mIU/l	2.43	1.94	2.92	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.60	2.08	3.12	Tosoh AIA360
	µU/ml = mIU/l	2.78	2.22	3.34	Vitros ECI
	µU/ml = mIU/l	2.43	1.65	3.21	Siemens Centaur XP/Classic
	µU/ml = mIU/l	2.44	1.95	2.93	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.09	1.67	2.51	Abbott Architect
	µU/ml = mIU/l	3.12	2.50	3.74	Diasorin Liaison
	µU/ml = mIU/l	2.57	2.06	3.08	Roche Modular E170
	µU/ml = mIU/l	2.44	1.95	2.93	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.27	1.82	2.72	Beckman Access Fast TSH
	µU/ml = mIU/l	2.12	1.70	2.54	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.60	2.08	3.12	Roche Cobas E411
	µU/ml = mIU/l	2.58	2.06	3.10	Roche Cobas 6000/8000
	µU/ml = mIU/l	2.30	1.84	2.76	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.83	2.25	3.41	Monobind Inc. ELISA / CLIA
	µU/ml = mIU/l	2.35	1.88	2.82	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.33	1.58	3.08	Siemens Centaur XP/Classic TSH3-Ultra

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	29.4	22.6	36.2	BioMerieux Vidas
	IU/ml	0.029	0.023	0.040	
	mU/ml=IU/l	32.0	23.6	40.4	Siemens Immulite 1000
	IU/ml	0.032	0.024	0.040	
	mU/ml=IU/l	14.9	11.9	17.9	Beckman Access
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	32.9	26.3	39.5	Vitros ECI
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	18.4	11.0	25.8	Siemens Centaur XP/Classic
	IU/ml	0.018	0.011	0.025	
	mU/ml=IU/l	39.3	31.4	47.2	Siemens Immulite 2000
	IU/ml	0.039	0.031	0.047	
	mU/ml=IU/l	15.4	12.3	18.5	Abbott Architect
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	13.6	10.9	16.3	Diasorin Liaison
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	29.2	23.4	35.0	Siemens Dimension
	IU/ml	0.029	0.023	0.035	
	mU/ml=IU/l	15.7	12.6	18.8	Beckman Dxl800
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	21.9	17.5	26.3	Roche STAT (Intact)
	IU/ml	0.022	0.018	0.026	
	mU/ml=IU/l	17.6	14.1	21.1	Roche hCG+Beta
	IU/ml	0.018	0.014	0.022	
	mU/ml=IU/l	16.7	13.4	20.0	Beckman Access Total BhCG (5th IS)
	IU/ml	0.017	0.013	0.021	
	mU/ml=IU/l	17.4	13.9	20.9	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.017	0.014	0.020	
Total T3	nmol/l	4.82	3.62	6.03	BioMerieux Vidas
	ng/ml	3.14	2.36	3.92	
	ng/dl	314	236	392	
	nmol/l	4.39	3.29	5.49	Siemens Immulite 1000
	ng/ml	2.86	2.14	3.58	
	ng/dl	286	214	358	
	nmol/l	4.89	3.67	6.11	Roche Elecsys
	ng/ml	3.18	2.39	3.97	
	ng/dl	318	239	397	
	nmol/l	4.36	3.27	5.45	Beckman Access
	ng/ml	2.84	2.13	3.55	
	ng/dl	284	213	355	
	nmol/l	5.45	4.09	6.81	Siemens Centaur XP/Classic
	ng/ml	3.55	2.66	4.44	
	ng/dl	355	266	444	
	nmol/l	4.42	3.32	5.53	Siemens Immulite 2000/2500
	ng/ml	2.88	2.16	3.60	
	ng/dl	288	216	360	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Total T3	nmol/l	4.05	3.04	5.06	Abbott Architect
	ng/ml	2.64	1.98	3.30	
	ng/dl	264	198	330	
	nmol/l	5.31	3.98	6.64	Vitros ECI
	ng/ml	3.46	2.59	4.33	
	ng/dl	346	259	433	
	nmol/l	4.67	3.50	5.84	Diasorin Liaison
	ng/ml	3.04	2.28	3.80	
	ng/dl	304	228	380	
	nmol/l	4.63	3.47	5.79	Roche Modular E170
	ng/ml	3.01	2.26	3.76	
	ng/dl	301	226	376	
	nmol/l	4.04	3.03	5.05	Beckman Dxl800
	ng/ml	2.63	1.97	3.29	
	ng/dl	263	197	329	
	nmol/l	4.93	3.70	6.16	Roche Cobas E411
	ng/ml	3.21	2.41	4.01	
	ng/dl	321	241	401	
	nmol/l	4.66	3.50	5.83	Roche Cobas 6000/8000
	ng/ml	3.03	2.28	3.78	
	ng/dl	303	228	378	
	nmol/l	4.55	3.41	5.69	Monobind Inc. ELISA / CLIA
	ng/ml	2.96	2.22	3.70	
	ng/dl	296	222	370	
Total T4	nmol/l	142	107	178	Vitros ECI
	µg/dl	11.1	8.35	13.9	
	ng/ml	111	83.5	139	
	nmol/l	143	107	179	BioMerieux Vidas
	µg/dl	11.2	8.35	14.1	
	ng/ml	112	83.5	141	
	nmol/l	143	107	179	Siemens Immulite 1000
	µg/dl	11.2	8.35	14.1	
	ng/ml	112	83.5	141	
	nmol/l	130	97.5	163	Roche Elecsys
	µg/dl	10.1	7.61	12.6	
	ng/ml	101	76.1	126	
	nmol/l	143	107	179	Beckman Access
	µg/dl	11.2	8.35	14.1	
	ng/ml	112	83.5	141	
	nmol/l	155	101	209	Siemens Centaur XP/Classic
	µg/dl	12.1	7.87	16.3	
	ng/ml	121	78.7	163	
	nmol/l	143	107	179	Siemens Immulite 2000/2500
	µg/dl	11.2	8.35	14.1	
	ng/ml	112	83.5	141	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Total T4	nmol/l	140	105	175	Abbott Architect
	µg/dl	10.9	8.19	13.6	
	ng/ml	109	81.9	136	
	nmol/l	94.4	70.8	118	Diasorin Liaison
	µg/dl	7.36	5.52	9.20	
	ng/ml	73.6	55.2	92.0	
	nmol/l	124	93.0	155	Roche Modular E170
	µg/dl	9.67	7.25	12.1	
	ng/ml	96.7	72.5	121	
	nmol/l	148	111	185	Beckman Dxl800
	µg/dl	11.5	8.66	14.3	
	ng/ml	115	86.6	143	
	nmol/l	130	97.5	163	Roche Cobas E411
	µg/dl	10.1	7.61	12.6	
	ng/ml	101	76.1	126	
	nmol/l	125	93.8	156	Roche Cobas 6000/8000
	µg/dl	9.75	7.32	12.2	
	ng/ml	97.5	73.2	122	
	nmol/l	132	99.0	165	Monobind Inc. ELISA / CLIA
	µg/dl	10.3	7.72	12.9	
	ng/ml	103	77.2	129	
Valproic Acid	µmol/l	516	413	619	Abbott AXSYM
	µg/ml	74.5	59.6	89.4	
	µmol/l	542	434	650	Siemens Immulite 1000
	µg/ml	78.2	62.6	93.8	
	µmol/l	535	428	642	Roche Integra
	µg/ml	77.2	61.8	92.6	
	µmol/l	556	445	667	Siemens Immulite 2000/2500
	µg/ml	80.2	64.2	96.2	
	µmol/l	537	430	644	Siemens Centaur XP/Classic
	µg/ml	77.5	62.0	93.0	
	µmol/l	605	484	726	Vitros
	µg/ml	87.3	69.8	105	
	µmol/l	570	456	684	Siemens Dimension
	µg/ml	82.3	65.8	98.8	
	µmol/l	525	420	630	Abbott Architect
	µg/ml	75.8	60.6	91.0	
	µmol/l	521	417	625	Beckman DxC
	µg/ml	75.2	60.2	90.2	
	µmol/l	564	451	677	Roche Modular P-D
	µg/ml	81.4	65.1	97.7	
	µmol/l	547	438	656	Roche Cobas E411
	µg/ml	78.9	63.2	94.6	
	µmol/l	543	434	652	Roche Cobas 6000/8000
	µg/ml	78.4	62.6	94.2	

IMMUNOASSAY PREMIUM PLUS - LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot No. 1432EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

Range					
Analyte	unit	target	low	high	methods
Valproic Acid	μmol/l	565	452	678	Beckman AU400/600/640/2700/5400
	μg/ml	81.5	65.2	97.8	
	μmol/l	638	510	766	Gravimetric
	μg/ml	92.1	73.6	111	
Vancomycin	μmol/l	7.05	5.64	8.46	Ortho Vitros Microslide Systems
	μg/ml	10.5	8.38	12.6	
	μmol/l	7.80	6.24	9.36	Abbott Architect
	μg/ml	11.6	9.27	13.9	
	μmol/l	5.83	4.55	7.11	Siemens Centaur XP/Classic
	μg/ml	8.66	6.75	10.6	
	μmol/l	7.38	5.90	8.86	Roche Cobas 6000/8000
	μg/ml	11.0	8.77	13.2	
	μmol/l	7.27	5.82	8.72	Beckman DxC
	μg/ml	10.8	8.65	13.0	
	μmol/l	7.10	5.68	8.52	Gravimetric
	μg/ml	10.5	8.44	12.6	
Vitamin B12	pmol/l	378	302	454	Roche Elecsys
	pg/ml	512	409	615	
	pmol/l	354	266	442	Beckman Access
	pg/ml	480	360	600	
	pmol/l	363	272	454	Siemens Centaur XP/Classic
	pg/ml	492	369	615	
	pmol/l	385	308	462	Siemens Immulite 2000
	pg/ml	522	417	627	
	pmol/l	379	303	455	Abbott Architect
	pg/ml	514	411	617	
	pmol/l	379	303	455	Vitros ECI
	pg/ml	514	411	617	
	pmol/l	380	304	456	Roche Modular E170
	pg/ml	515	412	618	
	pmol/l	315	252	378	Beckman Dxl800
	pg/ml	427	341	513	
	pmol/l	358	286	430	Roche Cobas E411
	pg/ml	485	388	582	
	pmol/l	384	307	461	Roche Cobas 6000/8000
	pg/ml	520	416	624	