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

Cat. No. IA3109 / IA3112

Lot No. 1431EC

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 1: 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 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
17-OH-Progesterone	nmol/l	10.6	7.57	13.6	Siemens Coat-a-Count
	ng/ml	3.51	2.51	4.51	
25-OH Vitamin D	nmol/l	37.0	27.1	46.9	Diasorin Liaison
	nmol/l	8.73	6.55	10.9	Roche Cobas 6000/8000
	nmol/l	31.0	23.3	38.8	Beckman DxI 600/800
ACTH	pmol/l	2.56	1.92	3.20	Siemens Immulite 2000/2500
	pg/ml	11.6	8.73	14.5	
	pmol/l	2.30	1.73	2.88	Roche Cobas E411
	pg/ml	10.5	7.86	13.1	
	pmol/l	2.97	2.23	3.71	Siemens Immulite 1000
	pg/ml	13.5	10.1	16.9	
Alphafoetoprotein	KIU/l = IU/ml	9.16	6.87	11.5	BioMerieux Vidas
	ng/ml	11.1	8.31	13.9	
	KIU/l = IU/ml	10.0	8.00	12.0	Siemens Immulite 1000
	ng/ml	12.1	9.68	14.5	
	KIU/l = IU/ml	11.1	8.88	13.3	Roche Elecsys
	ng/ml	13.4	10.7	16.1	
	KIU/l = IU/ml	10.0	8.00	12.0	Beckman Access
	ng/ml	12.1	9.68	14.5	
	KIU/l = IU/ml	10.1	8.08	12.1	Vitros ECi
	ng/ml	12.2	9.78	14.6	
	KIU/l = IU/ml	10.1	7.98	12.2	Siemens Centaur XP/Classic
	ng/ml	12.2	9.64	14.8	
	KIU/l = IU/ml	9.39	7.51	11.3	Siemens Immulite 2000/2500
	ng/ml	11.4	9.09	13.7	
	KIU/l = IU/ml	9.35	7.48	11.2	Abbott Architect
	ng/ml	11.3	9.05	13.6	
	KIU/l = IU/ml	10.6	8.48	12.7	Diasorin Liaison
	ng/ml	12.8	10.3	15.3	
	KIU/l = IU/ml	10.7	8.56	12.8	Roche Modular E170
	ng/ml	12.9	10.4	15.4	
	KIU/l = IU/ml	9.81	7.85	11.8	Beckman DxI800
	ng/ml	11.9	9.50	14.3	
	KIU/l = IU/ml	10.9	8.72	13.1	Roche Cobas 6000/8000
	ng/ml	13.2	10.6	15.8	
	KIU/l = IU/ml	10.6	8.48	12.7	Roche Cobas E411
	ng/ml	12.8	10.3	15.3	
Amikacin	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
Androstenedione	nmol/l	6.14	4.61	7.68	Siemens Immulite 2000
	ng/ml	1.76	1.32	2.20	
Beta-2 microglobulin	µg/ml = mg/l	1.39	1.04	1.74	BioMerieux Vidas

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Beta-2 microglobulin	µg/ml = mg/l	1.27	1.02	1.52	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.42	1.14	1.70	Abbott Architect
	µg/ml = mg/l	1.47	1.18	1.76	Roche Modular E170
	µg/ml = mg/l	1.42	1.14	1.70	Roche Cobas 6000/8000
C-Peptide	nmol/l	0.390	0.293	0.488	Siemens Immulite 2000/2500
	ng/ml	1.18	0.885	1.48	
	nmol/l	0.550	0.413	0.688	Roche Cobas 6000/8000
	ng/ml	1.66	1.25	2.07	
	nmol/l	0.340	0.255	0.425	Siemens Immulite 1000
	ng/ml	1.03	0.770	1.29	
	nmol/l	0.560	0.420	0.700	Diasorin Liaison
	ng/ml	1.69	1.27	2.11	
	nmol/l	0.550	0.413	0.688	Roche Cobas E411
	ng/ml	1.66	1.25	2.07	
	nmol/l	0.400	0.300	0.500	Abbott Architect
	ng/ml	1.21	0.906	1.51	
CA15-3	U/ml	20.3	15.5	25.1	Roche Elecsys
	U/ml	21.3	17.0	25.6	BioMerieux Vidas
	U/ml	21.9	14.5	29.3	Siemens Centaur XP/Classic
	U/ml	22.9	18.3	27.5	Abbott Architect
	U/ml	23.6	18.9	28.3	Siemens Immulite 2000/2500
	U/ml	18.5	14.8	22.2	Vitros ECi
	U/ml	20.2	16.2	24.2	Roche Modular E170
	U/ml	11.1	8.88	13.3	Beckman DxI800
	U/ml	20.3	16.2	24.4	Roche Cobas 6000/8000
	U/ml	20.5	16.4	24.6	Roche Cobas E411
CA19-9	U/ml	27.4	21.9	32.9	Abbott AXSYM
	U/ml	17.7	14.2	21.2	Siemens Immulite 1000
	U/ml	29.6	23.7	35.5	BioMerieux Vidas
	U/ml	22.8	17.9	27.7	Roche Elecsys
	U/ml	26.5	17.5	35.5	Siemens Centaur XP/Classic
	U/ml	16.2	12.6	19.8	Siemens Immulite 2000/2500
	U/ml	77.6	60.9	94.3	Abbott Architect
	U/ml	43.5	34.8	52.2	Vitros ECi
	U/ml	35.3	25.4	45.2	Diasorin Liaison
	U/ml	21.5	17.2	25.8	Roche Modular E170
	U/ml	20.1	16.1	24.1	Beckman DxI800
	U/ml	76.8	61.4	92.2	Abbott Architect XR kit
	U/ml	21.4	17.1	25.7	Roche Cobas 6000/8000
	U/ml	22.4	17.9	26.9	Roche Cobas E411
CA-125	U/ml	33.8	25.4	42.2	Siemens Immulite 1000
	U/ml	35.0	28.0	42.0	BioMerieux Vidas
	U/ml	27.9	22.3	33.5	Roche Elecsys
	U/ml	31.8	25.3	38.3	Siemens Immulite 2000/2500
	U/ml	27.8	22.2	33.4	Vitros ECi
	U/ml	45.3	36.2	54.4	Diasorin Liaison

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
CA-125	U/ml	29.3	23.4	35.2	Roche Modular E170
	U/ml	47.6	38.1	57.1	Abbott Architect
	U/ml	36.4	24.0	48.8	Siemens Centaur XP/Classic CA125 II kit
	U/ml	27.7	22.2	33.2	Beckman DxI800
	U/ml	30.1	24.1	36.1	Roche Cobas E411
	U/ml	30.0	24.0	36.0	Roche Cobas 6000/8000
Carbamazepine	µmol/l	14.1	10.6	17.6	Vitros
	µg/ml	3.33	2.51	4.15	
	µmol/l	16.9	12.2	21.6	Siemens Centaur XP/Classic
	µg/ml	4.00	2.88	5.12	
	µmol/l	14.7	11.8	17.6	Siemens Immulite 1000
	µg/ml	3.48	2.79	4.17	
	µmol/l	16.4	13.1	19.7	Roche Integra
	µg/ml	3.88	3.10	4.66	
	µmol/l	12.9	10.3	15.5	Siemens Immulite 2000/2500
	µg/ml	3.05	2.43	3.67	
	µmol/l	15.6	12.5	18.7	Siemens Dimension
	µg/ml	3.69	2.96	4.42	
	µmol/l	16.1	12.9	19.3	Abbott Architect
	µg/ml	3.81	3.05	4.57	
	µmol/l	14.3	11.4	17.2	Beckman DxC
	µg/ml	3.38	2.69	4.07	
	µmol/l	14.8	11.8	17.8	Roche Cobas 6000/8000
	µg/ml	3.50	2.79	4.21	
	µmol/l	15.4	12.3	18.4	Gravimetric
	µg/ml	3.63	2.91	4.35	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	3.73	2.94	4.52	BioMerieux Vidas
	ng/ml = µg/l	4.28	3.42	5.14	Siemens Immulite 1000
	ng/ml = µg/l	3.98	3.04	4.92	Roche Elecsys
	ng/ml = µg/l	5.37	4.27	6.47	Vitros ECi
	ng/ml = µg/l	3.78	2.49	5.07	Siemens Centaur XP/Classic
	ng/ml = µg/l	4.24	3.39	5.09	Siemens Immulite 2000/2500
	ng/ml = µg/l	4.30	3.44	5.16	Abbott Architect
	ng/ml = µg/l	4.18	3.34	5.02	Diasorin Liaison
	ng/ml = µg/l	3.80	3.04	4.56	Roche Modular E170
	ng/ml = µg/l	4.03	3.22	4.84	Beckman DxI800
	ng/ml = µg/l	3.77	3.02	4.52	Roche Cobas 6000/8000
	ng/ml = µg/l	3.86	3.09	4.63	Roche Cobas E411
Cortisol	nmol/l	107	80.3	134	BioMerieux Vidas
	µg/dl	3.85	2.89	4.81	
	nmol/l	207	155	259	Siemens Immulite 1000
	µg/dl	7.45	5.58	9.32	
	nmol/l	205	154	256	Siemens Coat-a-Count
	µg/dl	7.38	5.54	9.22	
	nmol/l	188	141	235	Roche Elecsys
	µg/dl	6.77	5.08	8.46	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Cortisol	nmol/l	181	136	226	Tosoh AIA360
	µg/dl	6.52	4.90	8.14	
	nmol/l	215	142	288	Siemens Centaur XP/Classic
	µg/dl	7.74	5.11	10.4	
	nmol/l	202	152	253	Siemens Immulite 2000/2500
	µg/dl	7.27	5.47	9.07	
	nmol/l	140	105	175	Vitros ECi
	µg/dl	5.04	3.78	6.30	
	nmol/l	205	154	256	Abbott Architect
	µg/dl	7.38	5.54	9.22	
	nmol/l	282	212	353	Diasorin Liaison
	µg/dl	10.2	7.63	12.8	
	nmol/l	186	140	233	Roche Modular E170
	µg/dl	6.70	5.04	8.36	
	nmol/l	198	149	248	Beckman DxI800
	µg/dl	7.13	5.36	8.90	
	nmol/l	179	134	224	Roche Cobas 6000/8000
	µg/dl	6.44	4.82	8.06	
	nmol/l	194	146	243	Roche Cobas E411
	µg/dl	6.98	5.26	8.70	
DHEA-S	µmol/l	1.93	1.39	2.47	Siemens Immulite 1000
	µmol/l	1.96	1.57	2.35	Siemens Immulite 2000/2500
	µmol/l	3.02	2.42	3.62	Roche Elecsys
	µmol/l	3.02	2.42	3.62	Roche Modular E170
	µmol/l	2.54	2.03	3.05	Abbott Architect
	µmol/l	2.20	1.76	2.64	Beckman DxI800
	µmol/l	3.02	2.42	3.62	Roche Cobas E411
	µmol/l	2.84	2.27	3.41	Roche Cobas 6000/8000
Digoxin	nmol/l	0.922	0.692	1.15	Vitros
	ng/ml	0.720	0.540	0.900	
	nmol/l	0.781	0.564	0.998	Roche Integra
	ng/ml	0.610	0.440	0.780	
	nmol/l	0.840	0.672	1.01	Siemens Immulite 2000/2500
	ng/ml	0.656	0.525	0.787	
	nmol/l	0.947	0.710	1.18	Siemens Centaur XP/Classic
	ng/ml	0.740	0.555	0.925	
	nmol/l	0.950	0.760	1.14	Roche Modular E170
	ng/ml	0.742	0.594	0.890	
	nmol/l	0.683	0.546	0.820	Abbott Architect
	ng/ml	0.533	0.426	0.640	
	nmol/l	0.863	0.690	1.04	Siemens Dimension
	ng/ml	0.674	0.539	0.809	
	nmol/l	0.866	0.693	1.04	Beckman DxI800
	ng/ml	0.676	0.541	0.811	
	nmol/l	0.974	0.779	1.17	Roche Cobas E411
	ng/ml	0.761	0.608	0.914	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Digoxin	nmol/l	0.881	0.705	1.06	Roche Cobas 6000/8000
	ng/ml	0.688	0.551	0.825	
	nmol/l	0.896	0.720	1.08	Gravimetric
	ng/ml	0.700	0.560	0.840	
Ethosuximide	µmol/l	226	181	271	Gravimetric
	µg/ml	32.0	25.7	38.4	
Ferritin	ng/ml = µg/l	11.9	8.93	14.9	BioMerieux Vidas
	ng/ml = µg/l	14.2	10.7	17.7	Siemens Immulite 1000
	ng/ml = µg/l	15.9	11.9	19.9	Roche Elecsys
	ng/ml = µg/l	11.1	8.63	13.6	Beckman Access
	ng/ml = µg/l	12.2	9.76	14.6	Vitros ECi
	ng/ml = µg/l	15.3	11.5	19.1	Siemens Centaur XP/Classic
	ng/ml = µg/l	14.5	10.9	18.1	Siemens Immulite 2000/2500
	ng/ml = µg/l	17.6	13.1	22.1	Abbott Architect
	ng/ml = µg/l	13.7	11.0	16.4	Diasorin Liaison
	ng/ml = µg/l	15.2	12.2	18.2	Roche Modular E170
	ng/ml = µg/l	13.9	11.1	16.7	Siemens Dimension
	ng/ml = µg/l	11.9	9.00	14.8	Beckman DxI800
	ng/ml = µg/l	16.0	12.2	19.8	Roche Cobas E411
	ng/ml = µg/l	14.8	11.8	17.8	Roche Cobas 6000/8000
	ng/ml = µg/l	11.5	9.20	13.8	Beckman AU400/600/640/2700/5400
Folate	nmol/l	6.52	4.96	8.08	Beckman Access
	ng/ml	2.88	2.19	3.57	
	nmol/l	8.97	6.73	11.2	Roche Elecsys
	ng/ml	3.96	2.97	4.95	
	nmol/l	5.90	4.48	7.32	Siemens Immulite 2000
	ng/ml	2.60	1.98	3.22	
	nmol/l	4.83	3.67	5.99	Vitros ECi
	ng/ml	2.13	1.62	2.64	
	nmol/l	6.61	5.02	8.20	Abbott Architect
	ng/ml	2.92	2.21	3.63	
	nmol/l	9.92	7.54	12.3	Roche Modular E170
	ng/ml	4.37	3.33	5.41	
	nmol/l	14.1	7.76	20.4	Siemens Centaur XP/Classic (enhanced kit)
	ng/ml	6.22	3.42	9.02	
	nmol/l	6.76	5.14	8.38	Beckman DxI800
	ng/ml	2.98	2.27	3.69	
	nmol/l	8.56	6.42	10.7	Roche Cobas E411
	ng/ml	3.77	2.83	4.71	
	nmol/l	9.46	7.19	11.7	Roche Cobas 6000/8000
	ng/ml	4.17	3.17	5.17	
Free T3	pmol/l	4.13	3.10	5.16	BioMerieux Vidas
	ng/dl	0.268	0.202	0.334	
	pg/ml	2.69	2.02	3.36	
	pmol/l	4.50	3.38	5.63	Roche Elecsys
	ng/dl	0.293	0.220	0.366	
	pg/ml	2.93	2.20	3.66	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
Free T3	pmol/l	4.36	3.27	5.45	Beckman Access
	ng/dl	0.283	0.213	0.353	
	pg/ml	2.84	2.13	3.55	
	pmol/l	4.77	3.58	5.96	Siemens Immulite 1000
	ng/dl	0.310	0.233	0.387	
	pg/ml	3.11	2.33	3.89	
	pmol/l	7.68	5.76	9.60	Vitros ECi
	ng/dl	0.499	0.374	0.624	
	pg/ml	5.00	3.75	6.25	
	pmol/l	4.39	2.63	6.15	Siemens Centaur XP/Classic
	ng/dl	0.285	0.171	0.399	
	pg/ml	2.86	1.72	4.00	
	pmol/l	3.67	2.67	4.67	Siemens Immulite 2000/2500
	ng/dl	0.239	0.174	0.300	
	pg/ml	2.39	1.74	3.04	
	pmol/l	3.12	2.30	3.94	Abbott Architect
	ng/dl	0.203	0.150	0.260	
	pg/ml	2.03	1.50	2.56	
	pmol/l	3.27	2.45	4.09	Diasorin Liaison
	ng/dl	0.213	0.159	0.267	
	pg/ml	2.13	1.59	2.67	
	pmol/l	4.44	3.33	5.55	Roche Modular E170
	ng/dl	0.289	0.216	0.362	
	pg/ml	2.89	2.17	3.61	
	pmol/l	3.88	2.91	4.85	Beckman DxI800
	ng/dl	0.252	0.189	0.315	
	pg/ml	2.53	1.89	3.17	
	pmol/l	4.71	3.53	5.89	Roche Cobas E411
	ng/dl	0.306	0.229	0.383	
	pg/ml	3.07	2.30	3.84	
	pmol/l	4.48	3.36	5.60	Roche Cobas 6000/8000
	ng/dl	0.291	0.218	0.364	
	pg/ml	2.92	2.19	3.65	
Free T4	pmol/l	12.0	9.00	15.0	Abbott AXSYM
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.36	7.02	11.7	
	pmol/l	17.3	13.0	21.6	BioMerieux Vidas
	ng/dl	1.35	1.01	1.69	
	pg/ml	13.5	10.1	16.9	
	pmol/l	17.3	13.0	21.6	Siemens Immulite 1000
	ng/dl	1.35	1.01	1.69	
	pg/ml	13.5	10.1	16.9	
	pmol/l	19.4	14.6	24.3	Roche Elecsys
	ng/dl	1.51	1.14	1.88	
	pg/ml	15.1	11.4	18.8	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
Free T4	pmol/l	14.4	10.8	18.0	Beckman Access
	ng/dl	1.12	0.842	1.40	
	pg/ml	11.2	8.42	14.0	
	pmol/l	21.3	16.0	26.6	Vitros ECi
	ng/dl	1.66	1.25	2.07	
	pg/ml	16.6	12.5	20.7	
	pmol/l	12.6	9.45	15.8	Siemens Centaur XP/Classic
	ng/dl	0.983	0.737	1.23	
	pg/ml	9.83	7.37	12.3	
	pmol/l	18.7	14.0	23.4	Siemens Immulite 2000/2500
	ng/dl	1.46	1.09	1.83	
	pg/ml	14.6	10.9	18.3	
	pmol/l	12.8	9.60	16.0	Abbott Architect
	ng/dl	0.998	0.749	1.25	
	pg/ml	9.98	7.49	12.5	
	pmol/l	17.6	13.2	22.0	Diasorin Liaison
	ng/dl	1.37	1.03	1.71	
	pg/ml	13.7	10.3	17.1	
	pmol/l	18.9	14.2	23.6	Roche Modular E170
	ng/dl	1.47	1.11	1.83	
	pg/ml	14.7	11.1	18.3	
	pmol/l	14.3	10.7	17.9	Beckman DxI800
	ng/dl	1.12	0.835	1.41	
	pg/ml	11.2	8.35	14.1	
	pmol/l	19.1	14.3	23.9	Roche Cobas 6000/8000
	ng/dl	1.49	1.12	1.86	
	pg/ml	14.9	11.2	18.6	
	pmol/l	19.6	14.7	24.5	Roche Cobas E411
	ng/dl	1.53	1.15	1.91	
	pg/ml	15.3	11.5	19.1	
	pmol/l	12.6	9.45	15.8	Siemens Dimension Vista LOCI
	ng/dl	0.983	0.737	1.23	
	pg/ml	9.83	7.37	12.3	
FSH	mU/ml	6.71	5.37	8.05	Siemens Immulite 1000
	mU/ml	7.23	5.78	8.68	BioMerieux Vidas
	mU/ml	7.64	6.06	9.22	Beckman Access
	mU/ml	6.81	5.45	8.17	Roche/BM Elecsys
	mU/ml	5.79	4.63	6.95	Vitros ECi
	mU/ml	8.42	5.89	11.0	Siemens Centaur XP/Classic
	mU/ml	7.11	5.69	8.53	Siemens Immulite 2000/2500
	mU/ml	6.05	4.84	7.26	Abbott Architect
	mU/ml	8.27	6.62	9.92	Diasorin Liaison
	mU/ml	6.43	5.14	7.72	Roche Modular E170
	mU/ml	7.22	5.78	8.66	Beckman DxI800
	mU/ml	6.98	5.58	8.38	Roche Cobas E411
	mU/ml	6.52	5.22	7.82	Roche Cobas 6000/8000

RANDOX

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
Gentamicin	µmol/l	4.85	3.88	5.82	Gravimetric
	µg/ml	2.32	1.85	2.78	
Growth Hormone (GH)	µU/ml	3.50	2.80	4.20	Beckman Access
	ng/ml	1.17	0.932	1.41	
	µU/ml	4.66	3.73	5.59	Siemens Immulite 1000
	ng/ml	1.55	1.24	1.86	
	µU/ml	4.87	3.90	5.84	Siemens Immulite 2000/2500
	ng/ml	1.62	1.30	1.94	
	µU/ml	3.55	2.84	4.26	Roche Modular E170
	ng/ml	1.18	0.946	1.41	
	µU/ml	3.39	2.71	4.07	Beckman DxI800
	ng/ml	1.13	0.902	1.36	
	µU/ml	3.81	2.96	4.66	Diasorin Liaison
	ng/ml	1.27	0.986	1.55	
	µU/ml	3.95	3.16	4.74	Roche Cobas E411
	ng/ml	1.32	1.05	1.59	
	µU/ml	3.70	2.96	4.44	Roche Cobas 6000/8000
	ng/ml	1.23	0.986	1.47	
Immunoglobulin E	KIU/l = IU/ml	273	218	328	Siemens Immulite 1000
	KIU/l = IU/ml	236	189	283	BioMerieux Vidas
	KIU/l = IU/ml	247	198	296	Roche Elecsys
	KIU/l = IU/ml	239	191	287	Tosoh AIA360
	KIU/l = IU/ml	251	151	351	Siemens Centaur XP/Classic
	KIU/l = IU/ml	279	223	335	Siemens Immulite 2000/2500
	KIU/l = IU/ml	254	203	305	Roche Modular E170
	KIU/l = IU/ml	249	199	299	Beckman DxI800
	KIU/l = IU/ml	195	156	234	Abbott Architect
	KIU/l = IU/ml	257	206	308	Roche Cobas E411
	KIU/l = IU/ml	256	205	307	Roche Cobas 6000/8000
	KIU/l = IU/ml	275	206	344	Monobind Inc. ELISA / CLIA
Insulin	mU/l	2.78	2.09	3.47	Siemens Centaur XP/Classic
	mU/l	2.44	1.83	3.05	Roche Modular E170
	mU/l	2.64	1.98	3.30	Roche Elecsys
	mU/l	1.99	1.49	2.49	Abbott Architect
	mU/l	2.56	1.92	3.20	Roche Cobas E411
	mU/l	2.42	1.82	3.03	Roche Cobas 6000/8000
	mU/l	1.63	1.22	2.04	Beckman DxI 600/800
Luteinising Hormone (LH)	mU/ml	2.16	1.61	2.71	Beckman Access
	mU/ml	2.49	1.98	3.00	BioMerieux Vidas
	mU/ml	6.62	5.30	7.94	Siemens Immulite 1000
	mU/ml	3.22	2.58	3.86	Roche Elecsys
	mU/ml	5.38	4.30	6.46	Vitros ECi
	mU/ml	2.55	1.91	3.19	Siemens Centaur XP/Classic
	mU/ml	5.76	4.61	6.91	Siemens Immulite 2000
	mU/ml	2.18	1.74	2.62	Abbott Architect
	mU/ml	3.15	2.52	3.78	Roche Modular E170

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Luteinising Hormone (LH)	mU/ml	1.96	1.57	2.35	Beckman DxI800
	mU/ml	3.16	2.53	3.79	Roche Cobas E411
	mU/ml	3.18	2.54	3.82	Roche Cobas 6000/8000
Oestradiol	pmol/l	92.0	73.6	110	Abbott AXSYM
	pg/ml	25.0	20.0	30.0	
	pmol/l	246	197	295	BioMerieux Vidas
	pg/ml	66.9	53.6	80.2	
	pmol/l	206	165	247	Siemens Immulite 1000
	pg/ml	56.0	44.9	67.1	
	pmol/l	262	210	314	Roche Elecsys
	pg/ml	71.3	57.1	85.5	
	pmol/l	104	83.2	125	Vitros ECi
	pg/ml	28.3	22.6	34.0	
	pmol/l	238	143	333	Siemens Centaur XP/Classic
	pg/ml	64.7	38.8	90.6	
	pmol/l	194	146	242	Siemens Immulite 2000/2500
	pg/ml	52.8	39.7	65.9	
	pmol/l	233	186	280	Abbott Architect
	pg/ml	63.4	50.6	76.2	
	pmol/l	286	229	343	Roche Modular E170
	pg/ml	77.8	62.3	93.3	
	pmol/l	172	129	215	Beckman DxI800
	pg/ml	46.8	35.1	58.5	
	pmol/l	280	224	336	Roche Cobas 6000/8000
	pg/ml	76.2	60.9	91.5	
	pmol/l	272	217	327	Roche Cobas E411
	pg/ml	74.0	59.0	89.0	
	pmol/l	254	152	356	Siemens Centaur XP/Classic Enhanced (eE2)
	pg/ml	69.1	41.5	96.7	
Paracetamol	mmol/l	0.175	0.140	0.210	Abbott AXSYM
	mg/l	26.5	21.2	31.8	
	mmol/l	0.166	0.133	0.199	Vitros
	mg/l	25.1	20.1	30.1	
	mmol/l	0.157	0.126	0.188	Abbott Architect
	mg/l	23.8	19.1	28.5	
	mmol/l	0.162	0.130	0.194	Siemens Centaur XP/Classic
	mg/l	24.5	19.7	29.3	
	mmol/l	0.166	0.130	0.200	Gravimetric
	mg/l	25.1	19.7	30.3	
Parathyroid Hormone (PTH)	pmol/l	0.499	0.374	0.624	Siemens Immulite 1000
	pg/ml	4.74	3.55	5.93	
	pmol/l	0.633	0.481	0.785	Siemens Immulite 2000
	pg/ml	6.01	4.57	7.45	
	pmol/l	1.77	1.26	2.28	Roche Elecsys PTH/PTH STAT
	pg/ml	16.8	12.0	21.6	
	pmol/l	2.07	1.55	2.59	Roche Modular E170 PTH/PTH STAT
	pg/ml	19.7	14.7	24.7	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Parathyroid Hormone (PTH)	pmol/l	2.43	1.82	3.04	Abbott Architect
	pg/ml	23.1	17.3	28.9	
	pmol/l	1.98	1.49	2.48	Roche Cobas 4000/e411 PTH/PTH STAT
	pg/ml	18.8	14.2	23.4	
	pmol/l	2.09	1.57	2.61	Roche Cobas 6000/8000 PTH/PTH STAT
	pg/ml	19.8	14.9	24.7	
	pmol/l	0.750	0.563	0.938	Beckman DxI800
	pg/ml	7.12	5.35	8.89	
Phenobarbital	µmol/l	37.1	29.7	44.5	Abbott Architect
	µg/ml	8.61	6.89	10.3	
	µmol/l	36.5	29.2	43.8	Siemens Immulite 2000/2500
	µg/ml	8.47	6.77	10.2	
	µmol/l	35.9	28.7	43.1	Roche Modular P-D
	µg/ml	8.33	6.66	10.0	
	µmol/l	33.1	26.5	39.7	Beckman AU400/600/640/2700/5400
	µg/ml	7.68	6.15	9.21	
	µmol/l	36.8	25.8	47.8	Siemens Centaur XP/Classic
	µg/ml	8.54	5.98	11.1	
	µmol/l	36.4	29.1	43.7	Siemens Immulite 1000
	µg/ml	8.44	6.75	10.1	
	µmol/l	34.5	27.6	41.4	Gravimetric
	µg/ml	8.00	6.40	9.60	
Phenytoin	µmol/l	19.0	14.3	23.7	Siemens Centaur XP/Classic
	µg/ml	4.80	3.60	6.00	
	µmol/l	19.1	15.3	22.9	Abbott AXSYM
	µg/ml	4.82	3.86	5.78	
	µmol/l	16.1	12.1	20.1	Vitros
	µg/ml	4.07	3.06	5.08	
	µmol/l	20.1	15.7	24.5	Siemens Immulite 1000
	µg/ml	5.08	3.96	6.20	
	µmol/l	19.5	15.6	23.4	Roche Integra
	µg/ml	4.92	3.94	5.90	
	µmol/l	19.8	15.8	23.8	Abbott Architect
	µg/ml	5.00	3.99	6.01	
	µmol/l	18.1	14.5	21.7	Beckman DxC
	µg/ml	4.57	3.66	5.48	
	µmol/l	17.9	14.2	21.6	Roche Cobas 6000/8000
	µg/ml	4.52	3.59	5.45	
	µmol/l	20.2	16.2	24.2	Gravimetric
	µg/ml	5.10	4.09	6.11	
Primidone	µmol/l	12.3	9.86	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
Progesterone	nmol/l	3.01	2.26	3.76	Siemens Immulite 1000
	ng/ml	0.942	0.707	1.18	
	nmol/l	2.26	1.81	2.71	Tosoh AIA360
	ng/ml	0.707	0.567	0.847	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Progesterone	nmol/l	3.88	2.95	4.81	BioMerieux Vidas
	ng/ml	1.21	0.923	1.50	
	nmol/l	2.28	1.82	2.74	Roche Elecsys
	ng/ml	0.714	0.570	0.858	
	nmol/l	3.15	2.51	3.79	Vitros ECi
	ng/ml	0.986	0.786	1.19	
	nmol/l	2.61	1.44	3.78	Siemens Centaur XP/Classic
	ng/ml	0.817	0.449	1.19	
	nmol/l	2.93	2.34	3.52	Siemens Immulite 2000/2500
	ng/ml	0.917	0.732	1.10	
	nmol/l	3.05	2.44	3.66	Abbott Architect
	ng/ml	0.955	0.764	1.15	
	nmol/l	2.25	1.80	2.70	Roche Modular E170
	ng/ml	0.704	0.563	0.845	
	nmol/l	2.84	2.13	3.55	Beckman DxI Prog Cal 33555
	ng/ml	0.889	0.667	1.11	
	nmol/l	2.27	1.78	2.76	Roche Cobas E411
	ng/ml	0.711	0.557	0.870	
	nmol/l	2.24	1.79	2.69	Roche Cobas 6000/8000
	ng/ml	0.701	0.560	0.842	
	nmol/l	1.65	1.24	2.06	Beckman DxI Prog DE Cal A80773
	ng/ml	0.516	0.388	0.640	
Prolactin	µU/ml	96.4	77.1	116	Beckman Access
	µU/ml	157	126	188	Siemens Immulite 1000
	µU/ml	137	110	164	Roche Elecsys
	µU/ml	106	84.8	127	Vitros ECi
	µU/ml	94.9	66.4	123	Siemens Centaur XP/Classic
	µU/ml	138	109	167	Siemens Immulite 2000/2500
	µU/ml	115	92.0	138	Abbott Architect
	µU/ml	112	89.6	134	Diasorin Liaison
	µU/ml	126	101	151	Roche Modular E170
	µU/ml	92.1	73.7	111	Beckman DxI800
	µU/ml	130	104	156	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	134	107	161	Roche Cobas E411
	µU/ml	129	103	155	Roche Cobas 6000/8000
	µU/ml	115	92.0	138	Abbott Architect restandardised
PSA Free	ng/ml = µg/l	1.40	1.05	1.75	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.42	1.07	1.78	Roche Elecsys
	ng/ml = µg/l	1.35	1.01	1.69	Abbott Architect
	ng/ml = µg/l	2.06	1.55	2.58	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.59	1.19	1.99	Siemens Centaur XP/Classic
	ng/ml = µg/l	1.38	1.04	1.73	Roche Modular E170
	ng/ml = µg/l	2.00	1.50	2.50	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.38	1.04	1.73	Roche Cobas E411
	ng/ml = µg/l	1.41	1.06	1.76	Roche Cobas 6000/8000

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
PSA Free	ng/ml = µg/l	1.53	1.15	1.91	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.21	0.908	1.51	Ortho Vitros 3600/5600/ECi PSA II
PSA Total	ng/ml = µg/l	1.77	1.33	2.21	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.91	1.43	2.39	Roche Elecsys
	ng/ml = µg/l	1.41	1.06	1.76	Tosoh AIA360
	ng/ml = µg/l	1.80	1.35	2.25	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.70	1.28	2.12	Siemens Centaur XP/Classic
	ng/ml = µg/l	2.10	1.58	2.63	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.78	1.34	2.23	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.66	1.25	2.08	Abbott Architect
	ng/ml = µg/l	1.64	1.23	2.05	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	1.01	0.758	1.26	Diasorin Liaison
	ng/ml = µg/l	1.99	1.49	2.49	Roche Modular E170
	ng/ml = µg/l	1.86	1.40	2.33	Beckman DxI standardisd to Hybritech
	ng/ml = µg/l	1.44	1.08	1.80	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.91	1.43	2.39	Roche Cobas E411
	ng/ml = µg/l	2.01	1.51	2.51	Roche Cobas 6000/8000
	ng/ml = µg/l	1.88	1.41	2.35	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	1.95	1.46	2.44	Ortho Vitros 3600/5600/ECi PSA II
Salicylic Acid	mmol/l	0.265	0.212	0.318	Abbott Architect
	mg/dl	3.66	2.93	4.39	
	mmol/l	0.286	0.230	0.340	Gravimetric
	mg/dl	3.95	3.18	4.70	
SHBG	nmol/l	19.3	15.4	23.2	Siemens Centaur XP/Classic
	nmol/l	18.1	14.5	21.7	Siemens Immulite 1000
	nmol/l	18.4	14.7	22.1	Siemens Immulite 2000/2500
	nmol/l	16.8	13.4	20.2	Roche Elecsys
	nmol/l	17.1	13.7	20.5	Roche Modular E170
	nmol/l	19.5	15.6	23.4	Abbott Architect
	nmol/l	17.4	13.9	20.9	Roche Cobas E411
	nmol/l	16.7	13.4	20.0	Roche Cobas 6000/8000
	nmol/l	17.8	14.2	21.4	Beckman DxI800
T Uptake	%U	34.6	28.4	40.8	Siemens Immulite 2000
Testosterone	nmol/l	0.924	0.718	1.13	Vitros ECi
	ng/ml	0.266	0.207	0.330	
	ng/dl	26.6	20.7	32.5	
	nmol/l	1.48	1.05	1.91	Siemens Immulite 2000/2500
	ng/ml	0.426	0.302	0.550	
	ng/dl	42.6	30.2	55.0	
	nmol/l	1.61	1.29	1.93	Abbott Architect
	ng/ml	0.464	0.372	0.556	
	ng/dl	46.4	37.2	55.6	
	nmol/l	1.42	1.14	1.70	BioMerieux Vidas
	ng/ml	0.409	0.328	0.490	
	ng/dl	40.9	32.8	49.0	
	nmol/l	1.35	1.08	1.62	Beckman Access
	ng/ml	0.389	0.311	0.467	
	ng/dl	38.9	31.1	46.7	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
Testosterone	nmol/l	0.979	0.783	1.17	Tosoh AIA360
	ng/ml	0.282	0.226	0.338	
	ng/dl	28.2	22.6	33.8	
	nmol/l	1.22	0.935	1.51	Beckman DxI800
	ng/ml	0.351	0.269	0.430	
	ng/dl	35.1	26.9	43.3	
	nmol/l	1.51	1.07	1.95	Roche Elecsys Test II
	ng/ml	0.435	0.308	0.560	
	ng/dl	43.5	30.8	56.2	
	nmol/l	1.54	1.23	1.85	Roche Modular E170 Test II
	ng/ml	0.444	0.354	0.534	
	ng/dl	44.4	35.4	53.4	
	nmol/l	1.64	1.31	1.97	Roche Cobas 4000/e411 Test II
	ng/ml	0.472	0.377	0.567	
	ng/dl	47.2	37.7	56.7	
	nmol/l	1.52	1.22	1.82	Roche Cobas 6000 Test 2
	ng/ml	0.438	0.351	0.525	
	ng/dl	43.8	35.1	52.5	
	nmol/l	1.58	1.26	1.90	Abbott Architect 2nd Generation
	ng/ml	0.455	0.363	0.547	
	ng/dl	45.5	36.3	54.7	
Theophylline	µmol/l	26.6	21.3	31.9	Siemens Dimension
	µg/ml	4.79	3.84	5.74	
	µmol/l	28.4	22.7	34.1	Abbott Architect
	µg/ml	5.12	4.09	6.15	
	µmol/l	23.5	18.8	28.2	Beckman DxC
	µg/ml	4.23	3.39	5.07	
	µmol/l	28.3	22.6	34.0	Gravimetric
	µg/ml	5.10	4.07	6.13	
Thyroglobulin	ng/ml	0.522	0.392	0.653	Siemens Immulite 2000
	ng/ml	2.14	1.61	2.68	Beckman DxI800
	ng/ml	5.29	3.97	6.61	Roche Cobas E411
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.125	0.096	0.154	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.182	0.137	0.227	Siemens Immulite 1000
	µU/ml = mIU/l	0.189	0.151	0.227	Roche Elecsys
	µU/ml = mIU/l	0.170	0.136	0.204	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.169	0.127	0.211	Tosoh AIA360
	µU/ml = mIU/l	0.206	0.165	0.247	Vitros ECi
	µU/ml = mIU/l	0.160	0.109	0.211	Siemens Centaur XP/Classic
	µU/ml = mIU/l	0.152	0.122	0.182	Siemens Immulite 2000/2500
	µU/ml = mIU/l	0.153	0.122	0.184	Abbott Architect
	µU/ml = mIU/l	0.194	0.155	0.233	Roche Modular E170
	µU/ml = mIU/l	0.106	0.085	0.127	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.157	0.126	0.188	Beckman DxI800 Fast TSH

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.154	0.105	0.203	Siemens Centaur XP/Classic 3rd Generation
	µU/ml = mIU/l	0.188	0.150	0.226	Roche Cobas E411
	µU/ml = mIU/l	0.193	0.154	0.232	Roche Cobas 6000/8000
	µU/ml = mIU/l	0.166	0.133	0.199	Beckman DxI800 Hyper TSH
	µU/ml = mIU/l	0.152	0.122	0.182	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	0.161	0.109	0.213	Siemens Centaur XP/Classic 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	25.7	18.4	33.0	BioMerieux Vidas
	IU/ml	0.026	0.018	0.030	
	mU/ml=IU/l	26.6	19.3	33.9	Siemens Immulite 1000
	IU/ml	0.027	0.019	0.040	
	mU/ml=IU/l	17.4	13.9	20.9	Roche Cobas Core EIA
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	18.3	14.6	22.0	Beckman Access
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	26.9	21.5	32.3	Vitros ECi
	IU/ml	0.027	0.022	0.032	
	mU/ml=IU/l	26.1	15.7	36.5	Siemens Centaur XP/Classic
	IU/ml	0.026	0.016	0.036	
	mU/ml=IU/l	27.1	21.7	32.5	Siemens Immulite 2000
	IU/ml	0.027	0.022	0.032	
	mU/ml=IU/l	20.2	16.2	24.2	Abbott Architect
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	14.2	11.4	17.0	Diasorin Liaison
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	22.9	18.3	27.5	Siemens Dimension
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	18.4	14.7	22.1	Beckman DxI800
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	19.7	15.8	23.6	Roche STAT (Intact)
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	16.9	13.5	20.3	Roche hCG+Beta
	IU/ml	0.017	0.014	0.020	
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	0.696	0.522	0.870	Siemens Immulite 1000
	ng/ml	0.453	0.340	0.566	
	ng/dl	45.3	34.0	56.6	
	nmol/l	1.72	1.29	2.15	Roche Elecsys
	ng/ml	1.12	0.840	1.40	
	ng/dl	112	84.0	140	
	nmol/l	1.05	0.788	1.31	Beckman Access
	ng/ml	0.684	0.513	0.855	
	ng/dl	68.4	51.3	85.5	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Total T3	nmol/l	0.776	0.582	0.970	Tosoh AIA360
	ng/ml	0.505	0.379	0.631	
	ng/dl	50.5	37.9	63.1	
	nmol/l	0.701	0.510	0.892	Siemens Centaur XP/Classic
	ng/ml	0.456	0.332	0.580	
	ng/dl	45.6	33.2	58.0	
	nmol/l	0.942	0.707	1.18	Abbott Architect
	ng/ml	0.613	0.460	0.766	
	ng/dl	61.3	46.0	76.6	
	nmol/l	1.01	0.758	1.26	Vitros ECi
	ng/ml	0.658	0.493	0.823	
	ng/dl	65.8	49.3	82.3	
	nmol/l	1.45	1.09	1.81	Roche Modular E170
	ng/ml	0.944	0.710	1.18	
	ng/dl	94.4	71.0	118	
	nmol/l	1.06	0.795	1.33	Beckman DxI800
	ng/ml	0.690	0.518	0.862	
	ng/dl	69.0	51.8	86.2	
	nmol/l	1.68	1.26	2.10	Roche Cobas E411
	ng/ml	1.09	0.820	1.36	
	ng/dl	109	82.0	136	
	nmol/l	1.46	1.10	1.83	Roche Cobas 6000/8000
	ng/ml	0.950	0.716	1.18	
	ng/dl	95.0	71.6	118	
Total T4	nmol/l	42.1	31.6	52.6	Vitros ECi
	µg/dl	3.28	2.46	4.10	
	ng/ml	32.8	24.6	41.0	
	nmol/l	43.5	32.6	54.4	BioMerieux Vidas
	µg/dl	3.39	2.54	4.24	
	ng/ml	33.9	25.4	42.4	
	nmol/l	39.6	29.7	49.5	Siemens Immulite 1000
	µg/dl	3.09	2.32	3.86	
	ng/ml	30.9	23.2	38.6	
	nmol/l	57.7	43.3	72.1	Roche Elecsys
	µg/dl	4.50	3.38	5.62	
	ng/ml	45.0	33.8	56.2	
	nmol/l	38.5	28.9	48.1	Tosoh AIA360
	µg/dl	3.00	2.25	3.75	
	ng/ml	30.0	22.5	37.5	
	nmol/l	40.5	28.4	52.6	Siemens Centaur XP/Classic
	µg/dl	3.16	2.21	4.11	
	ng/ml	31.6	22.1	41.1	
	nmol/l	40.8	30.1	51.5	Siemens Immulite 2000/2500
	µg/dl	3.18	2.35	4.01	
	ng/ml	31.8	23.5	40.1	
	nmol/l	51.8	38.9	64.8	Abbott Architect
	µg/dl	4.04	3.03	5.05	
	ng/ml	40.4	30.3	50.5	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

			Range		
Analyte	**unit**	**target**	**low**	**high**	**methods**
Total T4	nmol/l	52.7	39.5	65.9	Roche Modular E170
	µg/dl	4.11	3.08	5.14	
	ng/ml	41.1	30.8	51.4	
	nmol/l	45.0	33.8	56.3	Beckman DxI800
	µg/dl	3.51	2.64	4.38	
	ng/ml	35.1	26.4	43.8	
	nmol/l	59.2	44.4	74.0	Roche Cobas E411
	µg/dl	4.62	3.46	5.78	
	ng/ml	46.2	34.6	57.8	
	nmol/l	51.7	38.8	64.6	Roche Cobas 6000/8000
	µg/dl	4.03	3.03	5.03	
	ng/ml	40.3	30.3	50.3	
Valproic Acid	µmol/l	196	151	241	Abbott AXSYM
	µg/ml	28.3	21.8	34.8	
	µmol/l	199	159	239	Siemens Immulite 1000
	µg/ml	28.7	22.9	34.5	
	µmol/l	200	160	240	Roche Integra
	µg/ml	28.9	23.1	34.7	
	µmol/l	197	149	245	Siemens Immulite 2000/2500
	µg/ml	28.4	21.5	35.3	
	µmol/l	205	144	266	Siemens Centaur XP/Classic
	µg/ml	29.6	20.7	38.5	
	µmol/l	192	148	236	Vitros
	µg/ml	27.7	21.4	34.0	
	µmol/l	234	187	281	Siemens Dimension
	µg/ml	33.8	27.0	40.6	
	µmol/l	169	135	203	Abbott Architect
	µg/ml	24.4	19.5	29.3	
	µmol/l	174	123	225	Beckman DxC
	µg/ml	25.1	17.7	32.5	
	µmol/l	204	163	245	Roche Cobas 6000/8000
	µg/ml	29.4	23.5	35.3	
	µmol/l	191	153	229	Beckman AU400/600/640/2700/5400
	µg/ml	27.6	22.1	33.1	
	µmol/l	243	194	291	Gravimetric
	µg/ml	35.0	28.0	42.0	
Vancomycin	µmol/l	3.61	2.89	4.33	Ortho Vitros Microslide Systems
	µg/ml	5.36	4.29	6.43	
	µmol/l	3.78	3.02	4.54	Abbott Architect
	µg/ml	5.62	4.49	6.75	
	µmol/l	3.82	3.06	4.58	Roche Cobas 6000/8000
	µg/ml	5.68	4.55	6.81	
	µmol/l	3.43	2.74	4.12	Gravimetric
	µg/ml	5.10	4.07	6.12	

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

Cat. No. IA3109 / IA3112 Lot No. 1431EC Size: 12 x 5 ml / 12 x 5 ml Expiry: 2017-05

		Range			
Analyte	**unit**	**target**	**low**	**high**	**methods**
Vitamin B12	pmol/l	119	95.2	143	Beckman Access
	pg/ml	161	129	193	
	pmol/l	156	109	203	Siemens Centaur XP/Classic
	pg/ml	211	148	274	
	pmol/l	113	90.4	136	Siemens Immulite 2000
	pg/ml	153	122	184	
	pmol/l	174	126	222	Abbott Architect
	pg/ml	236	171	301	
	pmol/l	156	125	187	Vitros ECi
	pg/ml	211	169	253	
	pmol/l	158	126	190	Roche Modular E170
	pg/ml	214	171	257	
	pmol/l	124	99.0	149	Beckman DxI800
	pg/ml	168	134	202	
	pmol/l	191	143	239	Roche Cobas E411
	pg/ml	259	194	324	
	pmol/l	154	123	185	Roche Cobas 6000/8000
	pg/ml	209	167	251	