

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

CAT. NO.	IA3109	GTIN:	05055273207255	SIZE	12 x 5 ml
CAT. NO.	IA3112	GTIN:	05055273207286	SIZE	4 x 5 ml
LOT NO.	2105EC	EXPIRY:	2024-12-28		

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 tested immediately after the 30-minute reconstitution period. 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 lyophilized.

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 I: 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. 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.



Randox Teoranta, Meenmore,
Dungloe, Donegal,
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IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	3.28	2.46	4.10	Immunotech RIA
	ng/ml	1.09	0.814	1.37	
	nmol/l	4.09	3.07	5.11	DRG ELISA
	ng/ml	1.35	1.02	1.68	
	nmol/l	4.77	3.58	5.96	DIAsource RIA
	ng/ml	1.58	1.18	1.98	
	nmol/l	4.28	3.21	5.35	DIAsource ELISA
	ng/ml	1.42	1.06	1.78	
25-OH Vitamin D	nmol/l	49.7	37.3	62.1	Diasorin Liaison
	nmol/l	24.9	18.7	31.1	Siemens Centaur XP/XPT/Classic
	nmol/l	25.7	19.3	32.1	Roche Vitamin D Total
	nmol/l	25.7	19.3	32.1	Abbott Architect (3L52)
	nmol/l	99.0	74.3	124	Vitros ECI
	nmol/l	28.0	21.0	35.0	Tosoh Series
	nmol/l	34.1	25.6	42.6	BioMerieux Vidas
	nmol/l	50.9	38.2	63.6	Beckman Dxl 600/800
	nmol/l	23.7	17.8	29.6	Fujirebio Lumipulse G Series
	nmol/l	51.9	38.9	64.9	Beckman Access 25 OH Vitamin D Total
	nmol/l	25.3	19.0	31.6	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	50.2	37.7	62.8	Diasorin Liaison XL
	nmol/l	27.9	20.9	34.9	Roche Vitamin D Total II
	nmol/l	26.2	19.7	32.8	Abbott Alinity i
	nmol/l	20.2	15.2	25.3	Siemens Atellica IM
	nmol/l	25.0	18.8	31.3	Roche Vitamin D Total II e801
ACTH	pmol/l	7.98	5.99	9.98	CIS IRMA
	pg/ml	36.3	27.2	45.4	
	pmol/l	2.41	1.81	3.01	Siemens Immulite 1000
	pg/ml	11.0	8.23	13.8	
	pmol/l	2.63	1.97	3.29	Roche Elecsys
	pg/ml	12.0	8.95	15.1	
	pmol/l	3.35	2.51	4.19	Diasorin Liaison XL
	pg/ml	15.2	11.4	19.0	
	pmol/l	3.80	2.85	4.75	Tosoh AIA-CL Series
	pg/ml	17.3	13.0	21.6	
Aldosterone	pmol/l	116	87.0	145	CIS RIA
	pg/ml	41.9	31.4	52.4	
	pmol/l	149	112	186	Immunotech RIA
	pg/ml	53.8	40.4	67.2	
	pmol/l	315	236	394	IDS iSYS
	pg/ml	114	85.1	143	
	pmol/l	98.9	74.2	124	Diasorin Liaison
	pg/ml	35.7	26.8	44.6	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Alphafoetoprotein	KIU/l = IU/ml	8.17	6.54	9.80	Abbott Architect
	ng/ml	9.89	7.91	11.9	
	KIU/l = IU/ml	8.44	6.75	10.1	BioMerieux Vidas
	ng/ml	10.2	8.17	12.2	
	KIU/l = IU/ml	9.63	7.70	11.6	Siemens Centaur XP/XPT/Classic
	ng/ml	11.7	9.32	14.1	
	KIU/l = IU/ml	8.73	6.98	10.5	Siemens Immulite 2000/2500
	ng/ml	10.6	8.45	12.8	
	KIU/l = IU/ml	8.43	6.74	10.1	Siemens Immulite 1000
	ng/ml	10.2	8.16	12.2	
	KIU/l = IU/ml	8.58	6.86	10.3	Beckman Dxl800
	ng/ml	10.4	8.30	12.5	
	KIU/l = IU/ml	9.22	7.38	11.1	Roche Elecsys
	ng/ml	11.2	8.93	13.5	
	KIU/l = IU/ml	9.15	7.32	11.0	Diasorin Liaison
	ng/ml	11.1	8.86	13.3	
	KIU/l = IU/ml	8.39	6.71	10.1	Beckman Access
	ng/ml	10.2	8.12	12.3	
	KIU/l = IU/ml	8.91	7.13	10.7	Tosoh Series
	ng/ml	10.8	8.63	13.0	
	KIU/l = IU/ml	8.93	7.14	10.7	Vitros Eci
	ng/ml	9.29	7.43	11.2	
	KIU/l = IU/ml	9.34	7.47	11.2	Roche Cobas e601/602
	ng/ml	11.3	9.04	13.6	
	KIU/l = IU/ml	16.5	13.2	19.8	CIS IRMA
	ng/ml	20.0	16.0	24.0	
	KIU/l = IU/ml	9.30	7.44	11.2	Roche Cobas 4000/E411
	ng/ml	11.3	9.00	13.6	
	KIU/l = IU/ml	9.50	7.60	11.4	Siemens Centaur CP
	ng/ml	11.5	9.20	13.8	
	KIU/l = IU/ml	7.86	6.29	9.43	Mindray CL Series
	ng/ml	9.51	7.61	11.4	
	KIU/l = IU/ml	10.1	8.08	12.1	Diasorin Liaison XL
	ng/ml	12.2	9.78	14.6	
	KIU/l = IU/ml	9.62	7.70	11.5	Siemens Atellica IM
	ng/ml	11.6	9.32	13.9	
	KIU/l = IU/ml	8.16	6.53	9.79	Abbott Alinity i
	ng/ml	9.87	7.90	11.8	
	KIU/l = IU/ml	9.47	7.58	11.4	Roche Cobas e402/e801
	ng/ml	11.5	9.17	13.8	
	KIU/l = IU/ml	7.81	6.25	9.37	Tosoh AIA-CL Series
	ng/ml	9.45	7.56	11.3	
Amikacin	µmol/l	6.35	5.08	7.62	Roche Cobas 6000/8000
	µg/ml	3.72	2.97	4.47	
	µmol/l	6.09	4.87	7.31	Abbott Architect
	µg/ml	3.57	2.85	4.29	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Amikacin	µmol/l	6.15	4.92	7.38	Thermo Scientific QMS Amikacin
	µg/ml	3.60	2.88	4.32	
	µmol/l	6.33	5.06	7.60	Abbott Alinity
	µg/ml	3.71	2.96	4.46	
	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
Androstenedione	nmol/l	3.04	2.28	3.80	Beckman Coulter RIA
	ng/ml	0.872	0.654	1.09	
	nmol/l	5.97	4.48	7.46	Siemens Immulite 2000
	ng/ml	1.71	1.29	2.13	
	nmol/l	6.49	4.87	8.11	Diasorin Liaison XL
	ng/ml	1.86	1.40	2.32	
Beta-2-microglobulin	µg/ml = mg/l	0.933	0.746	1.12	Abbott Architect
	µg/ml = mg/l	0.999	0.799	1.20	BioMerieux Vidas
	µg/ml = mg/l	0.847	0.678	1.02	Behring Nephelometer
	µg/ml = mg/l	0.898	0.718	1.08	Siemens Immulite 2000/2500
	µg/ml = mg/l	0.955	0.764	1.15	Tosoh Series
	µg/ml = mg/l	1.01	0.808	1.21	Roche Cobas 6000/8000
	µg/ml = mg/l	0.655	0.524	0.786	Diasorin Liaison XL
	µg/ml = mg/l	0.772	0.618	0.926	Siemens Atellica CH
C-Peptide	µg/ml = mg/l	0.932	0.746	1.12	Abbott Alinity
	nmol/l	0.535	0.401	0.669	Siemens Immulite 2000/2500
	ng/ml	1.62	1.21	2.03	
	nmol/l	0.664	0.498	0.830	Roche Elecsys
	ng/ml	2.00	1.50	2.50	
	nmol/l	0.694	0.521	0.868	Roche Cobas e601/602
	ng/ml	2.10	1.57	2.63	
	nmol/l	0.665	0.499	0.831	Diasorin Liaison
	ng/ml	2.01	1.51	2.51	
	nmol/l	0.693	0.520	0.866	Roche Cobas 4000/E411
	ng/ml	2.09	1.57	2.61	
	nmol/l	0.610	0.458	0.763	Abbott Architect
	ng/ml	1.84	1.38	2.30	
	nmol/l	0.448	0.336	0.560	Siemens Centaur XP/XPT/Classic
	ng/ml	1.35	1.01	1.69	
	nmol/l	0.612	0.459	0.765	Tosoh Series
	ng/ml	1.85	1.39	2.31	
	nmol/l	0.711	0.533	0.889	Diasorin Liaison XL
	ng/ml	2.15	1.61	2.69	
	nmol/l	0.673	0.505	0.841	Roche Cobas e402/e801
	ng/ml	2.03	1.52	2.54	
	nmol/l	0.422	0.317	0.528	Siemens Atellica IM
	ng/ml	1.27	0.957	1.58	
	nmol/l	0.649	0.487	0.811	Vitros ECi
	ng/ml	1.96	1.47	2.45	
	nmol/l	0.717	0.538	0.896	Tosoh AIA-CL Series
	ng/ml	2.16	1.62	2.70	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
C-Peptide	nmol/l	0.451	0.338	0.564	Beckman Access
	ng/ml	1.36	1.02	1.70	
	nmol/l	0.603	0.452	0.754	Abbott Alinity i
	ng/ml	1.82	1.36	2.28	
CA 15-3	U/ml	33.3	26.6	40.0	Abbott Architect
	U/ml	22.9	18.3	27.5	BioMerieux Vidas
	U/ml	24.3	19.4	29.2	Siemens Centaur XP/XPT/Classic
	U/ml	24.2	19.4	29.0	Siemens Immulite 2000/2500
	U/ml	10.6	8.48	12.7	Beckman Dxl800
	U/ml	22.6	18.1	27.1	Roche Elecsys
	U/ml	10.1	8.08	12.1	Beckman Access
	U/ml	26.9	21.5	32.3	Tosoh Series
	U/ml	19.9	15.9	23.9	Vitros ECI
	U/ml	22.2	17.8	26.6	Roche Cobas e601/602
	U/ml	22.2	17.8	26.6	Roche Cobas 4000/E411
	U/ml	24.1	19.3	28.9	Siemens Centaur CP
	U/ml	13.8	11.0	16.6	Mindray CL-2000i
	U/ml	23.8	19.0	28.6	Diasorin Liaison XL
	U/ml	26.6	21.3	31.9	Siemens Atellica IM
	U/ml	20.9	16.7	25.1	Roche Cobas e402/e801
	U/ml	32.4	25.9	38.9	Abbott Alinity i
CA 19-9	U/ml	35.9	28.7	43.1	BioMerieux Vidas
	U/ml	42.4	33.9	50.9	Siemens Centaur XP/XPT/Classic
	U/ml	44.6	35.7	53.5	Siemens Immulite 2000/2500
	U/ml	48.1	38.5	57.7	Beckman Dxl800
	U/ml	23.9	19.1	28.7	Roche Elecsys
	U/ml	53.9	43.1	64.7	Beckman Access
	U/ml	23.3	18.6	28.0	Tosoh Series
	U/ml	49.0	39.2	58.8	Vitros ECI
	U/ml	73.4	58.7	88.1	Abbott Architect XR/XR2/XRL
	U/ml	23.9	19.1	28.7	Roche Cobas e601/602
	U/ml	24.9	19.9	29.9	Roche Cobas 4000/E411
	U/ml	43.8	35.0	52.6	Siemens Centaur CP
	U/ml	19.4	15.5	23.3	Mindray CL-2000i
	U/ml	46.6	37.3	55.9	Diasorin Liaison XL
	U/ml	43.3	34.6	52.0	Siemens Atellica IM
	U/ml	25.7	20.6	30.8	Roche Cobas e402/e801
	U/ml	73.6	58.9	88.3	Abbott Alinity XR/XR2/XRL
CA125	U/ml	27.2	21.8	32.6	Abbott Architect
	U/ml	19.0	15.2	22.8	BioMerieux Vidas
	U/ml	21.1	16.9	25.3	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	21.8	17.4	26.2	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	17.4	13.9	20.9	Siemens Immulite 2000/2500
	U/ml	21.1	16.9	25.3	Siemens Immulite 1000
	U/ml	15.4	12.3	18.5	Beckman Dxl800

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
CA125	U/ml	17.8	14.2	21.4	Roche Elecsys
	U/ml	16.1	12.9	19.3	Beckman Access
	U/ml	32.2	25.8	38.6	Tosoh Series
	U/ml	16.8	13.4	20.2	Vitros ECI
	U/ml	18.0	14.4	21.6	Roche Cobas 4000/E411
	U/ml	18.6	14.9	22.3	Roche Cobas e601/602
	U/ml	16.5	13.2	19.8	Fujirebio Lumipulse G Series
	U/ml	21.9	17.5	26.3	Siemens Centaur CP CA125 II kit
	U/ml	35.0	28.0	42.0	Mindray CL-2000i
	U/ml	23.2	18.6	27.8	Diasorin Liaison XL
	U/ml	25.8	20.6	31.0	Siemens Atellica IM
	U/ml	17.9	14.3	21.5	Roche Cobas e402/e801
	U/ml	27.8	22.2	33.4	Abbott Alinity i
	U/ml	27.8	22.2	33.4	Abbott Alinity i
Carbamazepine	µmol/l	15.5	12.4	18.6	Abbott Architect (CMIA)
	µg/ml	3.66	2.93	4.39	
	µmol/l	17.2	13.8	20.6	Siemens Centaur XP/XPT/Classic
	µg/ml	4.07	3.26	4.88	
	µmol/l	13.4	10.7	16.1	Siemens Dimension
	µg/ml	3.17	2.53	3.81	
	µmol/l	13.0	10.4	15.6	Siemens Immulite 2000/2500
	µg/ml	3.07	2.46	3.68	
	µmol/l	13.2	10.6	15.8	Siemens Immulite 1000
	µg/ml	3.12	2.51	3.73	
	µmol/l	15.6	12.5	18.7	Roche Integra
	µg/ml	3.69	2.96	4.42	
	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	18.5	Beckman AU400/600/640/2700/5400
	µg/ml	3.64	2.91	4.37	
	µmol/l	14.0	11.2	16.8	Abbott Architect (PETINA)
	µg/ml	3.31	2.65	3.97	
	µmol/l	16.0	12.8	19.2	EMIT
	µg/ml	3.78	3.03	4.53	
	µmol/l	14.4	11.5	17.3	Siemens Atellica CH
	µg/ml	3.40	2.72	4.08	
	µmol/l	13.2	10.6	15.8	Abbott Alinity (PETINA)
	µg/ml	3.12	2.51	3.73	
	µmol/l	15.4	12.3	18.5	Gravimetric
	µg/ml	3.64	2.91	4.37	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	5.12	4.10	6.14	Abbott Architect
	ng/ml = µg/l	4.02	3.22	4.82	BioMerieux Vidas
	ng/ml = µg/l	4.90	3.92	5.88	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	7.44	5.95	8.93	CIS RIA Coated tube
	ng/ml = µg/l	5.97	4.78	7.16	Siemens Immulite 2000/2500
	ng/ml = µg/l	6.28	5.02	7.54	Siemens Immulite 1000
	ng/ml = µg/l	4.15	3.32	4.98	Beckman Dxl800

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	4.08	3.26	4.90	Roche Elecsys
	ng/ml = µg/l	3.81	3.05	4.57	Diasorin Liaison
	ng/ml = µg/l	4.34	3.47	5.21	Beckman Access
	ng/ml = µg/l	6.81	5.45	8.17	Tosoh Series
	ng/ml = µg/l	4.30	3.44	5.16	Vitros ECI
	ng/ml = µg/l	4.18	3.34	5.02	Roche Cobas e601/602
	ng/ml = µg/l	4.23	3.38	5.08	Roche Cobas 4000/E411
	ng/ml = µg/l	6.43	5.14	7.72	Fujirebio Lumipulse G Series
	ng/ml = µg/l	4.96	3.97	5.95	Siemens Centaur CP
	ng/ml = µg/l	3.63	2.90	4.36	Mindray CL-2000i
	ng/ml = µg/l	4.23	3.38	5.08	Diasorin Liaison XL
	ng/ml = µg/l	4.82	3.86	5.78	Siemens Atellica IM
	ng/ml = µg/l	4.05	3.24	4.86	Roche Cobas e402/e801
	ng/ml = µg/l	4.91	3.93	5.89	Abbott Alinity i
Cortisol	nmol/l	221	166	276	Abbott Architect
	µg/dl	7.96	5.98	9.94	
	nmol/l	150	113	188	BioMerieux Vidas
	µg/dl	5.40	4.07	6.73	
	nmol/l	212	159	265	Siemens Centaur XP/XPT/Classic
	µg/dl	7.63	5.72	9.54	
	nmol/l	177	133	221	CIS RIA
	µg/dl	6.37	4.79	7.95	
	nmol/l	184	138	230	Siemens Immulite 2000/2500
	µg/dl	6.62	4.97	8.27	
	nmol/l	195	146	244	Siemens Immulite 1000
	µg/dl	7.02	5.26	8.78	
	nmol/l	215	161	269	Beckman Dxl800
	µg/dl	7.74	5.80	9.68	
	nmol/l	196	147	245	Roche Elecsys
	µg/dl	7.06	5.29	8.83	
	nmol/l	218	164	273	Beckman Access
	µg/dl	7.85	5.90	9.80	
	nmol/l	190	143	238	Tosoh Series
	µg/dl	6.84	5.15	8.53	
	nmol/l	163	122	204	Vitros ECI
	µg/dl	5.87	4.39	7.35	
	nmol/l	196	147	245	Roche Cobas e601/602
	µg/dl	7.06	5.29	8.83	
	nmol/l	207	155	259	Roche Cobas 4000/E411
	µg/dl	7.45	5.58	9.32	
	nmol/l	232	174	290	Siemens Centaur CP
	µg/dl	8.35	6.26	10.4	
	nmol/l	205	154	256	Roche Cobas 4000/e411 Gen II
	µg/dl	7.38	5.54	9.22	
	nmol/l	197	148	246	Roche Cobas e601/602 Gen II
	µg/dl	7.09	5.33	8.85	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Cortisol	nmol/l	208	156	260	Roche Elecsys Gen II
	µg/dl	7.49	5.62	9.36	
	nmol/l	217	163	271	Diasorin Liaison XL
	µg/dl	7.81	5.87	9.75	
	nmol/l	248	186	310	Siemens Atellica IM
	µg/dl	8.93	6.70	11.2	
	nmol/l	192	144	240	Roche Cobas e402/e801
	µg/dl	6.91	5.18	8.64	
DHEA-S	nmol/l	212	159	265	Tosoh AIA-CL Series
	µg/dl	7.63	5.72	9.54	
	nmol/l	218	164	273	Abbott Alinity i
	µg/dl	7.85	5.90	9.80	
	µmol/l	2.27	1.82	2.72	Abbott Architect
	µmol/l	1.78	1.42	2.14	Siemens Immulite 2000/2500
	µmol/l	1.50	1.20	1.80	Siemens Immulite 1000
	µmol/l	2.17	1.74	2.60	Beckman Dxl800
	µmol/l	3.06	2.45	3.67	Roche Elecsys
	µmol/l	2.39	1.91	2.87	Beckman Access
	µmol/l	1.72	1.38	2.06	Diasorin Liaison
	µmol/l	1.98	1.58	2.38	Siemens Centaur XP/XPT/Classic
	µmol/l	2.87	2.30	3.44	Roche Cobas 4000/E411
	µmol/l	2.81	2.25	3.37	Roche Cobas e601/602
	µmol/l	1.85	1.48	2.22	Diasorin Liaison XL
Digoxin	µmol/l	2.02	1.62	2.42	Siemens Atellica IM
	µmol/l	2.77	2.22	3.32	Roche Cobas e402/e801
	µmol/l	2.28	1.82	2.74	Abbott Alinity i
	nmol/l	0.584	0.467	0.701	Abbott Architect (CMIA)
	ng/ml	0.456	0.365	0.547	
	nmol/l	0.618	0.494	0.742	BioMerieux Vidas
	ng/ml	0.483	0.386	0.580	
	nmol/l	0.966	0.773	1.16	Siemens Centaur XP/XPT/Classic
	ng/ml	0.754	0.604	0.904	
	nmol/l	0.668	0.534	0.802	Siemens Dimension
	ng/ml	0.522	0.417	0.627	
	nmol/l	0.716	0.573	0.859	Beckman Dxl800
	ng/ml	0.559	0.448	0.670	
	nmol/l	0.796	0.637	0.955	Roche Cobas e601/602
	ng/ml	0.622	0.497	0.747	
	nmol/l	0.852	0.682	1.02	Beckman AU400/600/640/2700/5400
	ng/ml	0.665	0.533	0.797	
	nmol/l	0.874	0.699	1.05	Roche Cobas 4000/E411
	ng/ml	0.683	0.546	0.820	
	nmol/l	0.765	0.612	0.918	Roche Cobas e402/e801
	ng/ml	0.597	0.478	0.716	
	nmol/l	1.01	0.808	1.21	Siemens Atellica IM
	ng/ml	0.789	0.631	0.947	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Digoxin	nmol/l	0.731	0.585	0.877	Abbott Alinity (CMIA)
	ng/ml	0.571	0.457	0.685	
	nmol/l	0.789	0.631	0.947	Abbott Alinity (PETINA)
	ng/ml	0.616	0.493	0.739	
	nmol/l	0.896	0.717	1.08	Gravimetric
Ethosuximide	ng/ml	0.700	0.560	0.840	
	μmol/l	226	181	271	Gravimetric
Ferritin	μg/ml	32.0	25.7	38.4	
	ng/ml = μg/l	12.3	9.84	14.8	Abbott Architect
	ng/ml = μg/l	9.15	7.32	11.0	BioMerieux Vidas
	ng/ml = μg/l	9.22	7.38	11.1	Siemens Centaur XP/XPT/Classic
	ng/ml = μg/l	12.3	9.84	14.8	Siemens Dimension
	ng/ml = μg/l	11.2	8.96	13.4	Siemens Immulite 2000/2500
	ng/ml = μg/l	10.6	8.48	12.7	Siemens Immulite 1000
	ng/ml = μg/l	8.52	6.82	10.2	Beckman Dxl800
	ng/ml = μg/l	13.9	11.1	16.7	Roche Elecsys/Cobas e411
	ng/ml = μg/l	11.6	9.28	13.9	Diasorin Liaison
	ng/ml = μg/l	13.5	10.8	16.2	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = μg/l	8.43	6.74	10.1	Beckman Access
	ng/ml = μg/l	8.16	6.53	9.79	Tosoh Series
	ng/ml = μg/l	9.71	7.77	11.7	Vitros ECI
	ng/ml = μg/l	13.9	11.1	16.7	Roche Cobas 4000/c311
	ng/ml = μg/l	14.6	11.7	17.5	Roche Cobas c501/502/503/701/702
	ng/ml = μg/l	8.66	6.93	10.4	Siemens Centaur CP
	ng/ml = μg/l	12.7	10.2	15.2	Diasorin Liaison XL
	ng/ml = μg/l	12.9	10.3	15.5	Abbott Alinity i
	ng/ml = μg/l	8.46	6.77	10.2	Siemens Atellica IM
	ng/ml = μg/l	13.7	11.0	16.4	Roche Cobas e402/e801
Folate	nmol/l	6.02	4.58	7.46	Abbott Architect
	ng/ml	2.65	2.02	3.28	
	nmol/l	12.3	9.35	15.3	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	5.42	4.12	6.72	
	nmol/l	4.88	3.71	6.05	Siemens Immulite 2000
	ng/ml	2.15	1.64	2.66	
	nmol/l	5.12	3.89	6.35	Beckman Dxl 600 / 800 - A14208
	ng/ml	2.26	1.72	2.80	
	nmol/l	5.66	4.30	7.02	Beckman Access
	ng/ml	2.50	1.90	3.10	
	nmol/l	7.78	5.91	9.65	Tosoh Series
	ng/ml	3.43	2.61	4.25	
	nmol/l	5.13	3.90	6.36	Vitros ECI
	ng/ml	2.26	1.72	2.80	
	nmol/l	5.50	4.18	6.82	Beckman Dxl 600 / 800 - A98032
	ng/ml	2.43	1.84	3.02	
	nmol/l	14.5	11.0	18.0	Siemens Centaur CP (enhanced kit)
	ng/ml	6.39	4.85	7.93	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Folate	nmol/l	5.21	3.96	6.46	Roche Folate III - 04476433
	ng/ml	2.30	1.75	2.85	
	nmol/l	4.91	3.73	6.09	Roche Elecsys Folate
	ng/ml	2.17	1.64	2.70	
	nmol/l	5.06	3.85	6.27	Roche Folate III - 07559992
	ng/ml	2.23	1.70	2.76	
	nmol/l	3.84	2.92	4.76	Diasorin Liaison XL
	ng/ml	1.69	1.29	2.09	
	nmol/l	13.9	10.6	17.2	Siemens Atellica IM
	ng/ml	6.13	4.67	7.59	
	nmol/l	6.02	4.58	7.46	Abbott Alinity i
	ng/ml	2.65	2.02	3.28	
Free T3	nmol/l	4.91	3.73	6.09	Roche Folate 07027290 e801
	ng/ml	2.17	1.64	2.70	
	pmol/l	3.01	2.26	3.76	Abbott Architect, 2 point calibration
	ng/dl	0.196	0.147	0.245	
	pg/ml	1.96	1.47	2.45	
	pmol/l	3.30	2.48	4.13	BioMerieux Vidas
	ng/dl	0.215	0.161	0.269	
	pg/ml	2.15	1.61	2.69	
	pmol/l	4.14	3.11	5.18	Siemens Centaur XP/XPT/Classic
	ng/dl	0.269	0.202	0.336	
	pg/ml	2.70	2.02	3.38	
	pmol/l	3.61	2.71	4.51	Siemens Immulite 2000/2500
	ng/dl	0.235	0.176	0.294	
	pg/ml	2.35	1.76	2.94	
	pmol/l	3.30	2.48	4.13	Siemens Immulite 1000
	ng/dl	0.215	0.161	0.269	
	pg/ml	2.15	1.61	2.69	
	pmol/l	3.65	2.74	4.56	Beckman Dxl800
	ng/dl	0.237	0.178	0.296	
	pg/ml	2.38	1.78	2.98	
	pmol/l	4.43	3.32	5.54	Roche Elecsys
	ng/dl	0.288	0.216	0.360	
	pg/ml	2.88	2.16	3.60	
	pmol/l	3.09	2.32	3.86	Diasorin Liaison
	ng/dl	0.201	0.151	0.251	
	pg/ml	2.01	1.51	2.51	
	pmol/l	3.75	2.81	4.69	Beckman Access
	ng/dl	0.244	0.183	0.305	
	pg/ml	2.44	1.83	3.05	
	pmol/l	3.40	2.55	4.25	Tosoh Series
	ng/dl	0.221	0.166	0.276	
	pg/ml	2.21	1.66	2.76	
	pmol/l	7.96	5.97	9.95	Vitros ECI
	ng/dl	0.517	0.388	0.646	
	pg/ml	5.18	3.89	6.47	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	4.51	3.38	5.64	Roche Cobas 4000/E411
	ng/dl	0.293	0.220	0.366	
	pg/ml	2.94	2.20	3.68	
	pmol/l	4.40	3.30	5.50	Roche Cobas e601/602
	ng/dl	0.286	0.215	0.357	
	pg/ml	2.86	2.15	3.57	
	pmol/l	4.36	3.27	5.45	Siemens Centaur CP
	ng/dl	0.283	0.213	0.353	
	pg/ml	2.84	2.13	3.55	
	pmol/l	3.92	2.94	4.90	Mindray CL-2000i
	ng/dl	0.255	0.191	0.319	
	pg/ml	2.55	1.91	3.19	
	pmol/l	3.59	2.69	4.49	Sysmex HISCL Series
	ng/dl	0.233	0.175	0.291	
	pg/ml	2.34	1.75	2.93	
	pmol/l	3.39	2.54	4.24	Diasorin Liaison XL
	ng/dl	0.220	0.165	0.275	
	pg/ml	2.21	1.65	2.77	
	pmol/l	4.44	3.33	5.55	Siemens Atellica IM
	ng/dl	0.289	0.216	0.362	
	pg/ml	2.89	2.17	3.61	
	pmol/l	3.01	2.26	3.76	Abbott Alinity, 2 point cal
	ng/dl	0.196	0.147	0.245	
	pg/ml	1.96	1.47	2.45	
	pmol/l	2.92	2.19	3.65	Abbott Architect, 6 point calibration
	ng/dl	0.190	0.142	0.238	
	pg/ml	1.90	1.43	2.37	
	pmol/l	4.30	3.23	5.38	Roche Cobas e402/e801
	ng/dl	0.280	0.210	0.350	
	pg/ml	2.80	2.10	3.50	
	pmol/l	2.64	1.98	3.30	Tosoh AIA-CL Series
	ng/dl	0.172	0.129	0.215	
	pg/ml	1.72	1.29	2.15	
	pmol/l	3.08	2.31	3.85	Abbott Alinity, 6 point cal
	ng/dl	0.200	0.150	0.250	
	pg/ml	2.01	1.50	2.52	
Free T4	pmol/l	9.70	7.28	12.1	Abbott Architect
	ng/dl	0.757	0.568	0.946	
	pg/ml	7.57	5.68	9.46	
	pmol/l	8.82	6.62	11.0	Siemens Centaur XP/XPT/Classic
	ng/dl	0.688	0.516	0.860	
	pg/ml	6.88	5.16	8.60	
	pmol/l	12.0	9.00	15.0	CIS RIA Coated tube
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.36	7.02	11.7	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	13.7	10.3	17.1	Siemens Immulite 2000/2500
	ng/dl	1.07	0.803	1.34	
	pg/ml	10.7	8.03	13.4	
	pmol/l	13.9	10.4	17.4	Siemens Immulite 1000
	ng/dl	1.08	0.811	1.35	
	pg/ml	10.8	8.11	13.5	
	pmol/l	9.61	7.21	12.0	Beckman Dxl800
	ng/dl	0.750	0.562	0.938	
	pg/ml	7.50	5.62	9.38	
	pmol/l	13.0	9.75	16.3	Roche Elecsys
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.1	7.61	12.6	
	pmol/l	12.3	9.23	15.4	Diasorin Liaison
	ng/dl	0.959	0.720	1.20	
	pg/ml	9.59	7.20	12.0	
	pmol/l	9.91	7.43	12.4	Beckman Access
	ng/dl	0.773	0.580	0.966	
	pg/ml	7.73	5.80	9.66	
	pmol/l	10.6	7.95	13.3	Tosoh Series
	ng/dl	0.827	0.620	1.03	
	pg/ml	8.27	6.20	10.3	
	pmol/l	20.1	15.1	25.1	Vitros ECI
	ng/dl	1.57	1.18	1.96	
	pg/ml	15.7	11.8	19.6	
	pmol/l	10.0	7.50	12.5	BioMerieux Vidas
	ng/dl	0.780	0.585	0.975	
	pg/ml	7.80	5.85	9.75	
	pmol/l	13.3	9.98	16.6	Roche Cobas e601/602
	ng/dl	1.04	0.778	1.30	
	pg/ml	10.4	7.78	13.0	
	pmol/l	12.0	9.00	15.0	Immunotech IRMA
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.36	7.02	11.7	
	pmol/l	13.4	10.1	16.8	Roche Cobas 4000/E411
	ng/dl	1.05	0.788	1.31	
	pg/ml	10.5	7.88	13.1	
	pmol/l	10.7	8.03	13.4	Biomerieux Vidas FT4N Kit
	ng/dl	0.835	0.626	1.04	
	pg/ml	8.35	6.26	10.4	
	pmol/l	9.18	6.89	11.5	Siemens Centaur CP
	ng/dl	0.716	0.537	0.895	
	pg/ml	7.16	5.37	8.95	
	pmol/l	11.3	8.48	14.1	Mindray CL-2000i
	ng/dl	0.881	0.661	1.10	
	pg/ml	8.81	6.61	11.0	
	pmol/l	10.6	7.95	13.3	Sysmex HISCL Series
	ng/dl	0.827	0.620	1.03	
	pg/ml	8.27	6.20	10.3	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	11.6	8.70	14.5	Diasorin Liaison XL
	ng/dl	0.905	0.679	1.13	
	pg/ml	9.05	6.79	11.3	
	pmol/l	9.58	7.19	12.0	Siemens Atellica IM
	ng/dl	0.747	0.561	0.933	
	pg/ml	7.47	5.61	9.33	
	pmol/l	9.36	7.02	11.7	Abbott Alinity i
	ng/dl	0.730	0.548	0.912	
	pg/ml	7.30	5.48	9.12	
	pmol/l	13.1	9.83	16.4	Roche Cobas e402/e801
	ng/dl	1.02	0.767	1.27	
	pg/ml	10.2	7.67	12.7	
FSH	pmol/l	11.0	8.25	13.8	Tosoh AIA-CL Series
	ng/dl	0.858	0.644	1.07	
	pg/ml	8.58	6.44	10.7	
	mU/ml	6.60	5.28	7.92	Abbott Architect
	mU/ml	6.60	5.28	7.92	BioMerieux Vidas
	mU/ml	7.90	6.32	9.48	Siemens Centaur XP/XPT/Classic
	mU/ml	7.21	5.77	8.65	Siemens Immulite 2000/2500
	mU/ml	7.91	6.33	9.49	Siemens Immulite 1000
	mU/ml	7.60	6.08	9.12	Beckman Dxl800
	mU/ml	6.95	5.56	8.34	Roche/BM Elecsys
	mU/ml	8.76	7.01	10.5	Diasorin Liaison
	mU/ml	7.52	6.02	9.02	Beckman Access
	mU/ml	8.74	6.99	10.5	Tosoh Series
	mU/ml	5.54	4.43	6.65	Vitros ECI
	mU/ml	7.32	5.86	8.78	Roche Cobas 4000/E411
	mU/ml	6.62	5.30	7.94	Roche Cobas e601/602
	mU/ml	6.91	5.53	8.29	Siemens Centaur CP
	mU/ml	8.11	6.49	9.73	Mindray CL-2000i
Gentamicin	mU/ml	9.63	7.70	11.6	Diasorin Liaison XL
	mU/ml	7.03	5.62	8.44	Siemens Atellica IM
	mU/ml	6.94	5.55	8.33	Abbott Alinity i
	mU/ml	6.90	5.52	8.28	Roche Cobas e402/e801
	µmol/l	4.88	3.90	5.86	Roche Integra
	µg/ml	2.33	1.86	2.80	
	µmol/l	4.93	3.94	5.92	Siemens Centaur XP/XPT/Classic
	µg/ml	2.36	1.88	2.84	
	µmol/l	4.84	3.87	5.81	Abbott Architect (CMIA)
	µg/ml	2.31	1.85	2.77	
	µmol/l	3.77	3.02	4.52	Roche Cobas 6000/8000 Online KIMS
	µg/ml	1.80	1.44	2.16	
	µmol/l	4.20	3.36	5.04	Roche Cobas 6000/8000 CEDIA
	µg/ml	2.01	1.61	2.41	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Gentamicin	µmol/l	5.74	4.59	6.89	EMIT
	µg/ml	2.74	2.19	3.29	
	µmol/l	5.01	4.01	6.01	Siemens Atellica CH
	µg/ml	2.39	1.92	2.86	
	µmol/l	5.08	4.06	6.10	Abbott Alinity (PETINA)
	µg/ml	2.43	1.94	2.92	
Growth Hormone (GH)	µmol/l	4.85	3.88	5.82	Gravimetric
	µg/ml	2.32	1.85	2.78	
	µU/ml	4.52	3.62	5.42	Siemens Immulite 2000/2500
	ng/ml	1.51	1.21	1.81	
	µU/ml	4.44	3.55	5.33	Siemens Immulite 1000
	ng/ml	1.48	1.18	1.78	
	µU/ml	3.07	2.46	3.68	Beckman Dxl800
	ng/ml	1.02	0.819	1.22	
	µU/ml	3.37	2.70	4.04	Beckman Access
	ng/ml	1.12	0.899	1.34	
	µU/ml	4.13	3.30	4.96	Tosoh Series
	ng/ml	1.38	1.10	1.66	
	µU/ml	3.33	2.66	4.00	Diasorin Liaison
	ng/ml	1.11	0.886	1.33	
	µU/ml	3.98	3.18	4.78	Roche Cobas 4000/E411
	ng/ml	1.33	1.06	1.60	
	µU/ml	4.20	3.36	5.04	Roche Cobas e601/602
	ng/ml	1.40	1.12	1.68	
	µU/ml	3.06	2.45	3.67	Diasorin Liaison XL
	ng/ml	1.02	0.816	1.22	
Immunoglobulin E	µU/ml	4.04	3.23	4.85	Roche Cobas e402/e801
	ng/ml	1.35	1.08	1.62	
	µU/ml	3.37	2.70	4.04	Tosoh AIA-CL Series
	ng/ml	1.12	0.899	1.34	
	KIU/l = IU/ml	217	174	260	Abbott Architect
	KIU/l = IU/ml	205	164	246	BioMerieux Vidas
	KIU/l = IU/ml	236	189	283	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	241	193	289	Siemens Immulite 2000/2500
	KIU/l = IU/ml	250	200	300	Siemens Immulite 1000
	KIU/l = IU/ml	227	182	272	Roche Elecsys
	KIU/l = IU/ml	214	171	257	Pharmacia Unicap
	KIU/l = IU/ml	206	165	247	Tosoh Series
	KIU/l = IU/ml	234	187	281	Roche Cobas 4000/E411
	KIU/l = IU/ml	230	184	276	Roche Cobas e601/602
Insulin	KIU/l = IU/ml	201	161	241	Siemens Centaur CP
	KIU/l = IU/ml	227	182	272	Siemens Atellica IM
	KIU/l = IU/ml	239	191	287	Roche Cobas e402/e801
	KIU/l = IU/ml	217	174	260	Abbott Alinity
	mU/l	1.11	0.833	1.39	Siemens Centaur XP/XPT/Classic
	µU/ml	1.11	0.833	1.39	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Insulin	mU/l	1.47	1.10	1.84	Roche Elecsys
	µU/ml	1.47	1.10	1.84	
	mU/l	0.723	0.542	0.904	Beckman Access
	µU/ml	0.723	0.542	0.904	
	mU/l	1.01	0.758	1.26	Abbott Architect
	µU/ml	1.01	0.758	1.26	
	mU/l	1.91	1.43	2.39	Tosoh Series
	µU/ml	1.91	1.43	2.39	
	mU/l	1.32	0.990	1.65	Roche Cobas 4000/E411
	µU/ml	1.32	0.990	1.65	
	mU/l	0.726	0.545	0.908	Beckman Dxl 600/800
	µU/ml	0.726	0.545	0.907	
	mU/l	1.10	0.825	1.38	Diasorin Liaison
	µU/ml	1.10	0.825	1.38	
	mU/l	1.47	1.10	1.84	Roche Cobas 6000/8000
	µU/ml	1.47	1.10	1.84	
	mU/l	1.74	1.31	2.18	Mindray CL Series
	µU/ml	1.74	1.31	2.17	
	mU/l	1.27	0.953	1.59	Siemens Atellica IM
	µU/ml	1.27	0.953	1.59	
	mU/l	2.14	1.61	2.68	Tosoh AIA-CL Series
	µU/ml	2.14	1.61	2.67	
Luteinising Hormone (LH)	mU/ml	2.13	1.70	2.56	Abbott Architect
	mU/ml	2.53	2.02	3.04	BioMerieux Vidas
	mU/ml	2.55	2.04	3.06	Siemens Centaur XP/XPT/Classic
	mU/ml	4.75	3.80	5.70	Siemens Immulite 2000
	mU/ml	5.46	4.37	6.55	Siemens Immulite 1000
	mU/ml	2.01	1.61	2.41	Beckman Dxl800
	mU/ml	3.48	2.78	4.18	Roche Elecsys
	mU/ml	3.07	2.46	3.68	Diasorin Liaison
	mU/ml	2.09	1.67	2.51	Beckman Access
	mU/ml	2.38	1.90	2.86	Tosoh Series
	mU/ml	4.82	3.86	5.78	Vitros ECI
	mU/ml	3.52	2.82	4.22	Roche Cobas 4000/E411
	mU/ml	3.51	2.81	4.21	Roche Cobas e601/602
	mU/ml	2.49	1.99	2.99	Siemens Centaur CP
	mU/ml	3.41	2.73	4.09	Mindray CL-2000i
	mU/ml	3.45	2.76	4.14	Diasorin Liaison XL
	mU/ml	2.50	2.00	3.00	Siemens Atellica IM
	mU/ml	2.05	1.64	2.46	Abbott Alinity i
	mU/ml	3.58	2.86	4.30	Roche Cobas e402/e801
Oestradiol	pmol/l	190	152	228	Abbott Architect
	pg/ml	51.7	41.3	62.1	
	pmol/l	229	183	275	BioMerieux Vidas
	pg/ml	62.3	49.8	74.8	
	pmol/l	147	118	176	Siemens Centaur XP/XPT/Classic
	pg/ml	40.0	32.1	47.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	117	93.6	140	Beckman Dxl800
	pg/ml	31.8	25.5	38.1	
	pmol/l	167	134	200	Roche Elecsys (Estradiol II)
	pg/ml	45.4	36.4	54.4	
	pmol/l	119	95.2	143	Beckman Access
	pg/ml	32.4	25.9	38.9	
	pmol/l	96.6	77.3	116	Vitros ECI
	pg/ml	26.3	21.0	31.6	
	pmol/l	161	129	193	Roche Cobas e601/602 (Estradiol II)
	pg/ml	43.8	35.1	52.5	
	pmol/l	163	130	196	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	44.3	35.4	53.2	
	pmol/l	155	124	186	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	42.2	33.7	50.7	
	pmol/l	150	120	180	Siemens Centaur CP
	pg/ml	40.8	32.6	49.0	
	pmol/l	169	135	203	Roche Cobas e601/602 (Estradiol III)
	pg/ml	46.0	36.7	55.3	
	pmol/l	146	117	175	Roche Elecsys (Estradiol III)
	pg/ml	39.7	31.8	47.6	
	pmol/l	163	130	196	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	44.3	35.4	53.2	
	pmol/l	114	91.2	137	Mindray CL Series
	pg/ml	31.0	24.8	37.2	
	pmol/l	92.2	73.8	111	Diasorin Liaison XL
	pg/ml	25.1	20.1	30.1	
	pmol/l	135	108	162	Beckman Access / Access 2 Sensitive B84493
	pg/ml	36.7	29.4	44.0	
	pmol/l	116	92.8	139	Beckman Dxl600/800 Sensitive B84493
	pg/ml	31.6	25.2	38.0	
	pmol/l	151	121	181	Siemens Atellica IM
	pg/ml	41.1	32.9	49.3	
	pmol/l	187	150	224	Abbott Alinity i
	pg/ml	50.9	40.8	61.0	
	pmol/l	163	130	196	Roche Cobas e801 (Estradiol III)
	pg/ml	44.3	35.4	53.2	
Paracetamol	mmol/l	0.157	0.126	0.188	Abbott Architect
	mg/l	23.8	19.1	28.5	
	mmol/l	0.152	0.122	0.182	Roche Cobas c501/502/503/701/702
	mg/l	23.0	18.5	27.5	
	mmol/l	0.161	0.129	0.193	Beckman AU Instruments
	mg/l	24.4	19.5	29.3	
	mmol/l	0.155	0.124	0.186	EMIT
	mg/l	23.5	18.8	28.2	
	mmol/l	0.160	0.128	0.192	Abbott Alinity
	mg/l	24.2	19.4	29.0	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Paracetamol	mmol/l	0.166	0.130	0.200	Gravimetric
	mg/l	25.1	19.7	30.3	
Phenobarbital	µmol/l	35.9	28.7	43.1	Abbott Architect (CMIA)
	µg/ml	8.33	6.66	10.0	
	µmol/l	32.5	26.0	39.0	Roche Cobas e601/602/801
	µg/ml	7.54	6.03	9.05	
	µmol/l	36.6	29.3	43.9	Siemens Immulite 2000/2500
	µg/ml	8.49	6.80	10.2	
	µmol/l	30.3	24.2	36.4	Beckman AU400/600/640/2700/5400
	µg/ml	7.03	5.61	8.45	
	µmol/l	46.5	37.2	55.8	Siemens Centaur XP/XPT/Classic
	µg/ml	10.8	8.63	13.0	
	µmol/l	34.5	27.6	41.4	Roche Integra
	µg/ml	8.00	6.40	9.60	
	µmol/l	32.0	25.6	38.4	Roche Cobas C303/501/502/503/701
	µg/ml	7.42	5.94	8.90	
	µmol/l	33.8	27.0	40.6	Abbott Architect (PETINA)
	µg/ml	7.84	6.26	9.42	
	µmol/l	35.0	28.0	42.0	Siemens Atellica CH
	µg/ml	8.12	6.50	9.74	
	µmol/l	29.8	23.8	35.8	Abbott Alinity (PETINA)
	µg/ml	6.91	5.52	8.30	
	µmol/l	34.5	27.6	41.4	Gravimetric
	µg/ml	8.00	6.40	9.60	
Phenytoin	µmol/l	19.5	15.6	23.4	Abbott Architect
	µg/ml	4.92	3.94	5.90	
	µmol/l	19.5	15.6	23.4	Siemens Centaur XP/XPT/Classic
	µg/ml	4.92	3.94	5.90	
	µmol/l	17.5	14.0	21.0	Siemens Dimension
	µg/ml	4.42	3.54	5.30	
	µmol/l	19.2	15.4	23.0	Siemens Immulite 2000/2500
	µg/ml	4.85	3.89	5.81	
	µmol/l	18.5	14.8	22.2	Roche Cobas 6000/8000
	µg/ml	4.67	3.74	5.60	
	µmol/l	19.6	15.7	23.5	Beckman DxC
	µg/ml	4.95	3.96	5.94	
	µmol/l	18.3	14.6	22.0	Beckman AU Instruments
	µg/ml	4.62	3.69	5.55	
	µmol/l	19.3	15.4	23.2	EMIT
	µg/ml	4.87	3.89	5.85	
	µmol/l	16.8	13.4	20.2	Siemens Atellica CH
	µg/ml	4.24	3.38	5.10	
	µmol/l	19.9	15.9	23.9	Abbott Alinity
	µg/ml	5.02	4.01	6.03	
	µmol/l	20.2	16.2	24.2	Gravimetric
	µg/ml	5.10	4.09	6.11	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Primidone	µmol/l	12.3	9.84	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
Progesterone	nmol/l	3.14	2.51	3.77	Abbott Architect
	ng/ml	0.983	0.786	1.18	
	nmol/l	4.37	3.50	5.24	BioMerieux Vidas
	ng/ml	1.37	1.10	1.64	
	nmol/l	2.45	1.96	2.94	Siemens Centaur XP/XPT/Classic
	ng/ml	0.767	0.613	0.921	
	nmol/l	3.19	2.55	3.83	Siemens Immulite 2000/2500
	ng/ml	0.998	0.798	1.20	
	nmol/l	3.07	2.46	3.68	Siemens Immulite 1000
	ng/ml	0.961	0.770	1.15	
	nmol/l	2.85	2.28	3.42	Beckman Dxl Prog Cal 33555
	ng/ml	0.892	0.714	1.07	
	nmol/l	3.29	2.63	3.95	Roche Elecsys (Prog. II)
	ng/ml	1.03	0.823	1.24	
	nmol/l	2.91	2.33	3.49	Beckman Access Prog Cal 33555
	ng/ml	0.911	0.729	1.09	
	nmol/l	3.09	2.47	3.71	Vitros ECi
	ng/ml	0.967	0.773	1.16	
	nmol/l	3.32	2.66	3.98	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	1.04	0.833	1.25	
	nmol/l	3.48	2.78	4.18	Roche Cobas e601/602 (Prog. II)
	ng/ml	1.09	0.870	1.31	
	nmol/l	2.42	1.94	2.90	Siemens Centaur CP
	ng/ml	0.757	0.607	0.907	
	nmol/l	2.65	2.12	3.18	Mindray CL-2000i
	ng/ml	0.829	0.664	0.994	
	nmol/l	3.47	2.78	4.16	Roche Cobas e601/602 (Prog. III)
	ng/ml	1.09	0.870	1.31	
	nmol/l	3.57	2.86	4.28	Roche Elecsys (Prog. III)
	ng/ml	1.12	0.895	1.35	
	nmol/l	3.42	2.74	4.10	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	1.07	0.858	1.28	
	nmol/l	1.91	1.53	2.29	Diasorin Liaison XL
	ng/ml	0.598	0.479	0.717	
	nmol/l	2.88	2.30	3.46	Abbott Alinity i
	ng/ml	0.901	0.720	1.08	
	nmol/l	3.26	2.61	3.91	Roche Cobas e801 (Prog. III)
	ng/ml	1.02	0.817	1.22	
	nmol/l	3.98	3.18	4.78	Tosoh AIA-CL Series
	ng/ml	1.25	0.995	1.51	
Prolactin	µU/ml	168	134	202	Abbott Architect
	µU/ml	143	114	172	BioMerieux Vidas
	µU/ml	146	117	175	Siemens Centaur XP/XPT/Classic

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Prolactin	µU/ml	150	120	180	Siemens Immulite 2000/2500
	µU/ml	165	132	198	Siemens Immulite 1000
	µU/ml	139	111	167	Beckman Dxl800
	µU/ml	128	102	154	Roche Elecsys
	µU/ml	129	103	155	Diasorin Liaison
	µU/ml	143	114	172	Beckman Access
	µU/ml	161	129	193	Tosoh Series
	µU/ml	173	138	208	Vitros Eci
	µU/ml	125	100	150	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	156	125	187	Immunotech IRMA
	µU/ml	130	104	156	Roche Cobas 4000/E411
	µU/ml	125	100	150	Roche Cobas e601/602
	µU/ml	141	113	169	Siemens Centaur CP
	µU/ml	200	160	240	Mindray CL-2000i
	µU/ml	160	128	192	Diasorin Liaison XL
	µU/ml	145	116	174	Siemens Atellica IM
	µU/ml	170	136	204	Abbott Alinity i
	µU/ml	125	100	150	Roche Cobas e801 PRL II
PSA Free	ng/ml = µg/l	1.85	1.39	2.31	Abbott Architect
	ng/ml = µg/l	2.07	1.55	2.59	BioMerieux Vidas
	ng/ml = µg/l	1.60	1.20	2.00	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.68	1.26	2.10	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.79	1.34	2.24	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.24	0.930	1.55	Roche Elecsys
	ng/ml = µg/l	1.55	1.16	1.94	Diasorin Liaison
	ng/ml = µg/l	1.84	1.38	2.30	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.26	0.945	1.58	Tosoh Series
	ng/ml = µg/l	1.20	0.900	1.50	Roche Cobas 4000/E411
	ng/ml = µg/l	1.22	0.915	1.53	Roche Cobas e601/602
	ng/ml = µg/l	1.69	1.27	2.11	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.72	1.29	2.15	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.06	0.795	1.33	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.63	1.22	2.04	Diasorin Liaison XL
	ng/ml = µg/l	1.65	1.24	2.06	Siemens Atellica IM
	ng/ml = µg/l	1.87	1.40	2.34	Abbott Alinity i
	ng/ml = µg/l	1.19	0.893	1.49	Roche Cobas e402/e801
PSA Total	ng/ml = µg/l	1.21	0.908	1.51	Abbott Architect
	ng/ml = µg/l	1.99	1.49	2.49	BioMerieux Vidas
	ng/ml = µg/l	1.97	1.48	2.46	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.54	1.16	1.93	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.77	1.33	2.21	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.78	1.34	2.23	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	2.09	1.57	2.61	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	1.34	1.01	1.68	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.54	1.16	1.93	Roche Elecsys

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
PSA Total	ng/ml = µg/l	1.46	1.10	1.83	Diasorin Liaison
	ng/ml = µg/l	1.62	1.22	2.03	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.62	1.22	2.03	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.33	0.998	1.66	Tosoh Series
	ng/ml = µg/l	1.54	1.16	1.93	Vitros ECI
	ng/ml = µg/l	2.22	1.67	2.78	CIS RIA Coated tube
	ng/ml = µg/l	1.56	1.17	1.95	Roche Cobas 4000/E411
	ng/ml = µg/l	1.60	1.20	2.00	Roche Cobas e601/602
	ng/ml = µg/l	1.53	1.15	1.91	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.39	1.04	1.74	Siemens Centaur CP
	ng/ml = µg/l	1.51	1.13	1.89	Diasorin Liaison XL
	ng/ml = µg/l	1.53	1.15	1.91	Siemens Atellica IM
	ng/ml = µg/l	1.25	0.938	1.56	Abbott Alinity i
	ng/ml = µg/l	1.55	1.16	1.94	Roche Cobas e402/e801
Salicylic Acid	mmol/l	0.267	0.214	0.320	Roche Cobas c501/502/503
	mg/dl	3.69	2.96	4.42	
	mmol/l	0.286	0.230	0.340	Gravimetric
	mg/dl	3.95	3.18	4.70	
SHBG	nmol/l	12.2	9.76	14.6	Siemens Immulite 2000/2500
	nmol/l	12.3	9.84	14.8	Abbott Architect
	nmol/l	11.8	9.44	14.2	Beckman Access
	nmol/l	12.0	9.60	14.4	Beckman Dxl800
	nmol/l	10.4	8.32	12.5	Siemens Atellica IM
	nmol/l	11.6	9.28	13.9	Roche analysers - 413417/15
	nmol/l	11.3	9.04	13.6	Roche Cobas e801 - 413429
	nmol/l	12.4	9.92	14.9	Abbott Alinity i
T Uptake	%U	34.1	28.0	40.2	Siemens Immulite 2000
Testosterone	nmol/l	1.98	1.58	2.38	Abbott Architect
	ng/ml	0.570	0.455	0.685	
	ng/dl	57.0	45.5	68.5	
	nmol/l	1.03	0.824	1.24	BioMerieux Vidas
	ng/ml	0.297	0.237	0.357	
	ng/dl	29.7	23.7	35.7	
	nmol/l	1.22	0.976	1.46	Siemens Centaur XP/XPT/Classic
	ng/ml	0.351	0.281	0.421	
	ng/dl	35.1	28.1	42.1	
	nmol/l	1.59	1.27	1.91	CIS RIA Coated tube
	ng/ml	0.458	0.366	0.550	
	ng/dl	45.8	36.6	55.0	
	nmol/l	1.41	1.13	1.69	Siemens Immulite 1000
	ng/ml	0.406	0.325	0.487	
	ng/dl	40.6	32.5	48.7	
	nmol/l	1.68	1.34	2.02	Beckman Dxl800
	ng/ml	0.484	0.386	0.582	
	ng/dl	48.4	38.6	58.2	
	nmol/l	1.84	1.47	2.21	Beckman Access
	ng/ml	0.530	0.423	0.637	
	ng/dl	53.0	42.3	63.7	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Testosterone	nmol/l	0.983	0.786	1.18	Tosoh Series
	ng/ml	0.283	0.226	0.340	
	ng/dl	28.3	22.6	34.0	
	nmol/l	1.03	0.824	1.24	Vitros ECI
	ng/ml	0.297	0.237	0.357	
	ng/dl	29.7	23.7	35.7	
	nmol/l	1.78	1.42	2.14	Roche Cobas e601/602 Test II
	ng/ml	0.513	0.409	0.617	
	ng/dl	51.3	40.9	61.7	
	nmol/l	1.86	1.49	2.23	Roche Elecsys Test II
	ng/ml	0.536	0.429	0.643	
	ng/dl	53.6	42.9	64.3	
	nmol/l	1.80	1.44	2.16	Roche Cobas 4000/e411 Test II
	ng/ml	0.518	0.415	0.621	
	ng/dl	51.8	41.5	62.1	
	nmol/l	2.00	1.60	2.40	Abbott Architect 2nd Generation
	ng/ml	0.576	0.461	0.691	
	ng/dl	57.6	46.1	69.1	
	nmol/l	1.19	0.952	1.43	Siemens Centaur CP
	ng/ml	0.343	0.274	0.412	
	ng/dl	34.3	27.4	41.2	
	nmol/l	1.03	0.824	1.24	BioMerieux Vidas Testosterone II
	ng/ml	0.297	0.237	0.357	
	ng/dl	29.7	23.7	35.7	
	nmol/l	1.22	0.976	1.46	Siemens Centaur TST II
	ng/ml	0.351	0.281	0.421	
	ng/dl	35.1	28.1	42.1	
	nmol/l	0.764	0.611	0.917	Diasorin Liaison XL
	ng/ml	0.220	0.176	0.264	
	ng/dl	22.0	17.6	26.4	
	nmol/l	1.15	0.920	1.38	Siemens Atellica IM
	ng/ml	0.331	0.265	0.397	
	ng/dl	33.1	26.5	39.7	
	nmol/l	1.78	1.42	2.14	Roche Cobas e801 Test II
	ng/ml	0.513	0.409	0.617	
	ng/dl	51.3	40.9	61.7	
	nmol/l	1.92	1.54	2.30	Tosoh AIA-CL Series
	ng/ml	0.553	0.444	0.662	
	ng/dl	55.3	44.4	66.2	
	nmol/l	1.93	1.54	2.32	Abbott Alinity i
	ng/ml	0.556	0.444	0.668	
	ng/dl	55.6	44.4	66.8	
Theophylline	µmol/l	32.3	25.8	38.8	Siemens Centaur XP/XPT/Classic
	µg/ml	5.82	4.65	6.99	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Theophylline	µmol/l	28.6	22.9	34.3	Roche Integra
	µg/ml	5.15	4.13	6.17	
	µmol/l	24.6	19.7	29.5	Abbott Architect (CMIA)
	µg/ml	4.43	3.55	5.31	
	µmol/l	26.8	21.4	32.2	Roche Cobas 6000/8000
	µg/ml	4.83	3.86	5.80	
	µmol/l	25.4	20.3	30.5	Beckman AU400/600/640/2700/5400
	µg/ml	4.58	3.66	5.50	
	µmol/l	28.3	22.6	34.0	Gravimetric
	µg/ml	5.10	4.07	6.13	
Thyroglobulin	ng/ml	2.08	1.56	2.60	Roche Elecsys
	ng/ml	1.71	1.28	2.14	Beckman Dxl800
	ng/ml	2.16	1.62	2.70	Roche Cobas 4000/E411
	ng/ml	2.10	1.58	2.63	Roche Cobas e601/602
	ng/ml	1.84	1.38	2.30	Beckman Access
	ng/ml	2.17	1.63	2.71	Abbott Architect 2000i
	ng/ml	2.45	1.84	3.06	Tosoh Series
	ng/ml	2.15	1.61	2.69	Roche Cobas e601/602 Tg II
	ng/ml	2.22	1.67	2.78	Roche Elecsys TGII
	ng/ml	2.15	1.61	2.69	Roche Cobas 4000/E411 TGII
	ng/ml	0.717	0.538	0.896	Diasorin Liaison XL
	ng/ml	2.09	1.57	2.61	Roche Cobas e801 Tg II
	ng/ml	0.645	0.484	0.806	DiaSorin Liaison TG II Gen
	ng/ml	0.756	0.567	0.945	DiaSorin Liaison XL TG II Gen
	ng/ml	2.09	1.57	2.61	Abbott Alinity i
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.065	0.052	0.078	Abbott Architect
	µU/ml = mIU/l	0.050	0.040	0.060	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.041	0.033	0.049	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.073	0.058	0.088	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	0.071	0.057	0.085	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	0.061	0.049	0.073	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	0.060	0.048	0.072	Beckman Dxl800
	µU/ml = mIU/l	0.112	0.090	0.134	Roche Elecsys
	µU/ml = mIU/l	0.112	0.090	0.134	Diasorin Liaison
	µU/ml = mIU/l	0.065	0.052	0.078	Beckman Access Fast TSH
	µU/ml = mIU/l	0.062	0.050	0.074	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.092	0.074	0.110	Tosoh Series
	µU/ml = mIU/l	0.055	0.044	0.066	Vitros ECI
	µU/ml = mIU/l	0.104	0.083	0.125	Roche Cobas 4000/E411
	µU/ml = mIU/l	0.104	0.083	0.125	Roche Cobas e601/602
	µU/ml = mIU/l	0.060	0.048	0.072	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.069	0.055	0.083	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.068	0.054	0.082	Siemens Centaur CP
	µU/ml = mIU/l	0.064	0.051	0.077	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	0.106	0.085	0.127	Mindray CL-2000i
	µU/ml = mIU/l	0.062	0.050	0.074	Beckman Dxl 600/800 Access (3rd IS)

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.115	0.092	0.138	Diasorin Liaison XL
	µU/ml = mIU/l	0.072	0.058	0.086	Siemens Atellica IM
	µU/ml = mIU/l	0.067	0.054	0.080	Abbott Alinity i
	µU/ml = mIU/l	0.093	0.074	0.112	Roche Cobas e402/e801
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	11.2	8.96	13.4	Abbott Architect
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	6.06	4.85	7.27	BioMerieux Vidas
	IU/ml	0.006	0.005	0.007	
	mU/ml=IU/l	11.0	8.80	13.2	Siemens Centaur XP/XPT/Classic
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	9.08	7.26	10.9	Siemens Dimension
	IU/ml	0.009	0.007	0.011	
	mU/ml=IU/l	20.4	16.3	24.5	Siemens Immulite 2000
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	18.3	14.6	22.0	Siemens Immulite 1000
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	16.0	12.8	19.2	Beckman Dxl800
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	9.73	7.78	11.7	Diasorin Liaison
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	11.0	8.80	13.2	Roche Cobas Core EIA
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	15.7	12.6	18.8	Beckman Access
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	12.3	9.84	14.8	Tosoh Series
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	9.74	7.79	11.7	Vitros ECi
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	4.86	3.89	5.83	Roche hCG STAT (Intact)
	IU/ml	0.005	0.004	0.006	
	mU/ml=IU/l	11.1	8.88	13.3	Roche hCG+Beta
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	15.5	12.4	18.6	Beckman Access Total BhCG (5th IS)
	IU/ml	0.016	0.012	0.020	
	mU/ml=IU/l	16.2	13.0	19.4	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.016	0.013	0.019	
	mU/ml=IU/l	9.57	7.66	11.5	Siemens Centaur CP
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	10.8	8.64	13.0	Diasorin Liaison XL
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	9.83	7.86	11.8	Siemens Atellica IM
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	11.4	9.12	13.7	Abbott Alinity i
	IU/ml	0.011	0.009	0.013	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Total Beta hCG	mU/ml=IU/l	11.2	8.96	13.4	Roche hCG+Beta e801
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	15.3	12.2	18.4	Tosoh AIA-CL Series
	IU/ml	0.015	0.012	0.018	
Total T3	nmol/l	0.795	0.596	0.994	Abbott Architect
	ng/ml	0.518	0.388	0.648	
	ng/dl	51.8	38.8	64.8	
	nmol/l	0.634	0.476	0.793	BioMerieux Vidas
	ng/ml	0.413	0.310	0.516	
	ng/dl	41.3	31.0	51.6	
	nmol/l	0.734	0.551	0.918	Siemens Centaur XP/XPT/Classic
	ng/ml	0.478	0.359	0.597	
	ng/dl	47.8	35.9	59.7	
	nmol/l	0.620	0.465	0.775	Siemens Immulite 2000/2500
	ng/ml	0.404	0.303	0.505	
	ng/dl	40.4	30.3	50.5	
	nmol/l	0.635	0.476	0.794	Siemens Immulite 1000
	ng/ml	0.413	0.310	0.516	
	ng/dl	41.3	31.0	51.6	
	nmol/l	1.08	0.810	1.35	Beckman Dxl800
	ng/ml	0.703	0.527	0.879	
	ng/dl	70.3	52.7	87.9	
	nmol/l	1.44	1.08	1.80	Roche Elecsys
	ng/ml	0.937	0.703	1.17	
	ng/dl	93.7	70.3	117	
	nmol/l	1.11	0.833	1.39	Beckman Access
	ng/ml	0.723	0.542	0.904	
	ng/dl	72.3	54.2	90.4	
	nmol/l	0.746	0.560	0.933	Tosoh Series
	ng/ml	0.486	0.365	0.607	
	ng/dl	48.6	36.5	60.7	
	nmol/l	0.979	0.734	1.22	Vitros ECi
	ng/ml	0.637	0.478	0.796	
	ng/dl	63.7	47.8	79.6	
	nmol/l	0.538	0.404	0.673	CIS RIA Coated tube
	ng/ml	0.350	0.263	0.437	
	ng/dl	35.0	26.3	43.7	
	nmol/l	1.37	1.03	1.71	Roche Cobas 4000/E411
	ng/ml	0.892	0.671	1.11	
	ng/dl	89.2	67.1	111	
	nmol/l	0.739	0.554	0.924	Immunotech RIA
	ng/ml	0.481	0.361	0.601	
	ng/dl	48.1	36.1	60.1	
	nmol/l	1.34	1.01	1.68	Roche Cobas e601/602
	ng/ml	0.872	0.658	1.09	
	ng/dl	87.2	65.8	109	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Total T3	nmol/l	0.782	0.587	0.978	Mindray CL Series
	ng/ml	0.509	0.382	0.636	
	ng/dl	50.9	38.2	63.6	
	nmol/l	0.986	0.740	1.23	Diasorin Liaison XL
	ng/ml	0.642	0.482	0.802	
	ng/dl	64.2	48.2	80.2	
	nmol/l	0.804	0.603	1.01	Abbott Alinity i
	ng/ml	0.523	0.393	0.653	
	ng/dl	52.3	39.3	65.3	
	nmol/l	0.799	0.599	0.999	Siemens Atellica IM
	ng/ml	0.520	0.390	0.650	
	ng/dl	52.0	39.0	65.0	
	nmol/l	1.28	0.960	1.60	Roche Cobas e402/e801
	ng/ml	0.833	0.625	1.04	
	ng/dl	83.3	62.5	104	
	nmol/l	0.728	0.546	0.910	Tosoh AIA-CL Series
	ng/ml	0.474	0.355	0.593	
	ng/dl	47.4	35.5	59.3	
Total T4	nmol/l	34.9	26.2	43.6	Abbott Architect
	µg/dl	2.72	2.04	3.40	
	ng/ml	27.2	20.4	34.0	
	nmol/l	34.8	26.1	43.5	BioMerieux Vidas
	µg/dl	2.71	2.04	3.38	
	ng/ml	27.1	20.4	33.8	
	nmol/l	24.9	18.7	31.1	Siemens Centaur XP/XPT/Classic
	µg/dl	1.94	1.46	2.42	
	ng/ml	19.4	14.6	24.2	
	nmol/l	24.6	18.5	30.8	Siemens Immulite 2000/2500
	µg/dl	1.92	1.44	2.40	
	ng/ml	19.2	14.4	24.0	
	nmol/l	28.0	21.0	35.0	Siemens Immulite 1000
	µg/dl	2.18	1.64	2.72	
	ng/ml	21.8	16.4	27.2	
	nmol/l	26.0	19.5	32.5	Beckman Dxl800
	µg/dl	2.03	1.52	2.54	
	ng/ml	20.3	15.2	25.4	
	nmol/l	38.7	29.0	48.4	Roche Elecsys
	µg/dl	3.02	2.26	3.78	
	ng/ml	30.2	22.6	37.8	
	nmol/l	29.1	21.8	36.4	Beckman Access
	µg/dl	2.27	1.70	2.84	
	ng/ml	22.7	17.0	28.4	
	nmol/l	28.0	21.0	35.0	Tosoh Series
	µg/dl	2.18	1.64	2.72	
	ng/ml	21.8	16.4	27.2	
	nmol/l	26.2	19.7	32.8	Vitros ECi
	µg/dl	2.04	1.54	2.54	
	ng/ml	20.4	15.4	25.4	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	30.4	22.8	38.0	CIS RIA Coated tube
	µg/dl	2.37	1.78	2.96	
	ng/ml	23.7	17.8	29.6	
	nmol/l	38.8	29.1	48.5	Roche Cobas 4000/E411
	µg/dl	3.03	2.27	3.79	
	ng/ml	30.3	22.7	37.9	
	nmol/l	36.0	27.0	45.0	Roche Cobas e601/602
	µg/dl	2.81	2.11	3.51	
	ng/ml	28.1	21.1	35.1	
	nmol/l	33.0	24.8	41.3	Immunotech IRMA
	µg/dl	2.57	1.93	3.21	
	ng/ml	25.7	19.3	32.1	
	nmol/l	26.8	20.1	33.5	Siemens Centaur CP
	µg/dl	2.09	1.57	2.61	
	ng/ml	20.9	15.7	26.1	
	nmol/l	28.6	21.5	35.8	Mindray CL Series
	µg/dl	2.23	1.68	2.78	
	ng/ml	22.3	16.8	27.8	
	nmol/l	37.2	27.9	46.5	Diasorin Liaison XL
	µg/dl	2.90	2.18	3.62	
	ng/ml	29.0	21.8	36.2	
	nmol/l	32.0	24.0	40.0	Abbott Alinity i
	µg/dl	2.50	1.87	3.13	
	ng/ml	25.0	18.7	31.3	
	nmol/l	29.7	22.3	37.1	Siemens Atellica IM
	µg/dl	2.32	1.74	2.90	
	ng/ml	23.2	17.4	29.0	
	nmol/l	35.4	26.6	44.3	Roche Cobas e402/e801
	µg/dl	2.76	2.07	3.45	
	ng/ml	27.6	20.7	34.5	
	nmol/l	34.9	26.2	43.6	Tosoh AIA-CL Series
	µg/dl	2.72	2.04	3.40	
	ng/ml	27.2	20.4	34.0	
Valproic Acid	µmol/l	201	161	241	Abbott Architect (CMIA)
	µg/ml	29.0	23.2	34.8	
	µmol/l	225	180	270	Siemens Centaur XP/XPT/Classic
	µg/ml	32.5	26.0	39.0	
	µmol/l	200	160	240	Siemens Dimension
	µg/ml	28.9	23.1	34.7	
	µmol/l	185	148	222	Siemens Immulite 2000/2500
	µg/ml	26.7	21.4	32.0	
	µmol/l	196	157	235	Roche Integra
	µg/ml	28.3	22.7	33.9	
	µmol/l	190	152	228	Vitros
	µg/ml	27.4	21.9	32.9	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	197	158	236	Roche Cobas 4000/c311
	µg/ml	28.4	22.8	34.0	
	µmol/l	200	160	240	Roche Cobas 6000/8000
	µg/ml	28.9	23.1	34.7	
	µmol/l	208	166	250	Beckman AU400/600/640/2700/5400
	µg/ml	30.0	24.0	36.0	
	µmol/l	174	139	209	Abbott Architect (PETINA)
	µg/ml	25.1	20.1	30.1	
	µmol/l	218	174	262	EMIT
	µg/ml	31.5	25.1	37.9	
	µmol/l	209	167	251	Siemens Atellica CH
	µg/ml	30.2	24.1	36.3	
	µmol/l	181	145	217	Abbott Alinity (CMIA)
	µg/ml	26.1	20.9	31.3	
	µmol/l	175	140	210	Abbott Alinity (PETINA)
	µg/ml	25.3	20.2	30.4	
Vancomycin	µmol/l	243	194	292	Gravimetric
	µg/ml	35.1	28.0	42.1	
	µmol/l	3.17	2.54	3.80	Roche Integra
	µg/ml	4.71	3.77	5.65	
	µmol/l	3.62	2.90	4.34	Ortho Vitros Microslide Systems
	µg/ml	5.38	4.31	6.45	
	µmol/l	3.63	2.90	4.36	Abbott Architect (CMIA)
	µg/ml	5.39	4.31	6.47	
	µmol/l	2.72	2.18	3.26	Siemens Centaur XP/XPT/Classic
	µg/ml	4.04	3.24	4.84	
	µmol/l	3.49	2.79	4.19	Siemens Dimension
	µg/ml	5.19	4.15	6.23	
	µmol/l	3.40	2.72	4.08	Roche Cobas 6000/8000
	µg/ml	5.05	4.04	6.06	
	µmol/l	3.28	2.62	3.94	Thermo Scientific QMS Vancomycin
	µg/ml	4.87	3.89	5.85	
Vitamin B12	µmol/l	3.75	3.00	4.50	Abbott Architect (PETINA)
	µg/ml	5.57	4.46	6.68	
	µmol/l	3.48	2.78	4.18	Siemens Atellica CH
	µg/ml	5.17	4.13	6.21	
	µmol/l	3.53	2.82	4.24	Abbott Alinity (CMIA)
	µg/ml	5.24	4.19	6.29	
	µmol/l	3.64	2.91	4.37	Abbott Alinity (PETINA)
	µg/ml	5.41	4.32	6.50	
	µmol/l	3.43	2.74	4.12	Gravimetric
	µg/ml	5.10	4.07	6.12	
Vitamin B12	pmol/l	154	123	185	Abbott Architect
	pg/ml	209	167	251	
	pmol/l	142	114	170	Siemens Centaur XP/XPT/Classic
	pg/ml	192	154	230	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2105EC Size 12 x 5ml / 4 x 5ml Expiry 2024-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	111	88.8	133	Siemens Immulite 2000
	pg/ml	150	120	180	
	pmol/l	98.9	79.1	119	Beckman Dxl800
	pg/ml	134	107	161	
	pmol/l	171	137	205	Roche Elecsys
	pg/ml	232	186	278	
	pmol/l	105	84.0	126	Beckman Access
	pg/ml	142	114	170	
	pmol/l	156	125	187	Tosoh Series
	pg/ml	211	169	253	
	pmol/l	156	125	187	Vitros ECI
	pg/ml	211	169	253	
	pmol/l	130	104	156	Siemens Dimension
	pg/ml	176	141	211	
	pmol/l	135	108	162	Siemens Centaur CP
	pg/ml	183	146	220	
	pmol/l	175	140	210	Roche Cobas 4000/e411 Gen II
	pg/ml	237	190	284	
	pmol/l	167	134	200	Roche Cobas e601/602 Gen II
	pg/ml	226	182	270	
	pmol/l	179	143	215	Mindray CL Series
	pg/ml	243	194	292	
	pmol/l	112	89.6	134	Diasorin Liaison XL
	pg/ml	152	121	183	
	pmol/l	159	127	191	Siemens Atellica IM
	pg/ml	215	172	258	
	pmol/l	211	169	253	Abbott Alinity i
	pg/ml	286	229	343	
	pmol/l	156	125	187	Roche Cobas e801 Gen II
	pg/ml	211	169	253	

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

CAT. NO.	IA3109	GTIN:	05055273207255	SIZE	12 x 5 ml
CAT. NO.	IA3112	GTIN:	05055273207286	SIZE	4 x 5 ml
LOT NO.	2105EC	EXPIRY:	2024-12-28		

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. 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.

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 lyophilized.

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 I: 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. 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.



Randox Teoranta, Meenmore,
Dungloe, Donegal,
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(S). 05 Apr '22 me

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

Cat. No. IA3109 / IA3112		Lot No. 2105EC	Size: 12 x 5ml / 4 x 5ml		Expiry: 2024-12-28
Analyte	unit	Target	Range		methods
			low	high	
Alpha-fetoprotein	KIU/l = IU/ml	8.39	6.71	10.1	Beckman Access / Access 2
	ng/ml	10.2	8.16	12.2	
	KIU/l = IU/ml	8.58	6.86	10.3	Beckman Dxl600/800
	ng/ml	10.4	8.32	12.5	
CA 15-3	U/ml	10.1	8.08	12.1	Beckman Access / Access 2
	U/ml	10.6	8.48	12.7	Beckman Dxl600/800
CA 19-9	U/ml	53.9	43.1	64.7	Beckman Access / Access 2
	U/ml	48.1	38.5	57.7	Beckman Dxl600/800
CA125	U/ml	16.1	12.9	19.3	Beckman Access / Access 2
	U/ml	15.4	12.3	18.5	Beckman Dxl600/800
Carcinoembryonic	ng/ml = µg/l	4.34	3.47	5.21	Beckman Access / Access 2
Antigen (CEA)	ng/ml = µg/l	4.15	3.32	4.98	Beckman Dxl600/800
Cortisol	nmol/l	218	164	272	Beckman Access / Access 2
	µg/dl	7.85	5.89	9.81	
	nmol/l	215	161	269	Beckman Dxl600/800
	µg/dl	7.74	5.81	9.67	
DHEA-S	µmol/l	2.39	1.91	2.87	Beckman Access / Access 2
	µg/dl	88.1	70.5	106	
	µmol/l	2.17	1.74	2.60	Beckman Dxl600/800
	µg/dl	80.0	64.0	96.0	
Digoxin	nmol/l	TBD			Beckman Access / Access 2
	ng/ml				
	nmol/l	0.716	0.573	0.859	Beckman Dxl600/800
	ng/ml	0.559	0.447	0.671	
Ferritin	ng/ml = µg/l	8.43	6.74	10.1	Beckman Access / Access 2
	ng/ml = µg/l	8.52	6.82	10.2	Beckman Dxl600/800
Folate	nmol/l	5.66	4.30	7.02	Beckman Access / Access 2
	ng/ml	2.50	1.90	3.10	
	nmol/l	5.12	3.89	6.35	Beckman Dxl600/800 - A14208
	ng/ml	2.26	1.72	2.80	
	nmol/l	5.50	4.18	6.82	Beckman Dxl600/800 - A98032
	ng/ml	2.43	1.85	3.01	
Free T3	pmol/l	3.75	2.81	4.69	Beckman Access / Access 2
	ng/dl	0.244	0.183	0.305	
	pg/ml	2.44	1.83	3.05	
	pmol/l	3.65	2.74	4.56	Beckman Dxl600/800
	ng/dl	0.237	0.178	0.296	
	pg/ml	2.38	1.79	2.97	
Free T4	pmol/l	9.91	7.43	12.4	Beckman Access / Access 2
	ng/dl	0.773	0.580	0.966	
	pg/ml	7.73	5.80	9.66	
	pmol/l	9.61	7.21	12.0	Beckman Dxl600/800
	ng/dl	0.750	0.563	0.937	
	pg/ml	7.50	5.63	9.37	
FSH	mU/ml	7.52	6.02	9.02	Beckman Access / Access 2
	mU/ml	7.60	6.08	9.12	Beckman Dxl600/800
Growth Hormone (GH)	µU/ml	3.37	2.70	4.04	Beckman Access / Access 2
	ng/ml	1.12	0.896	1.34	
	µU/ml	3.07	2.46	3.68	Beckman Dxl600/800
	ng/ml	1.02	0.816	1.22	
Insulin	mU/l	0.723	0.542	0.904	Beckman Access / Access 2
	mU/l	0.726	0.545	0.907	Beckman Dxl600/800
Luteinising Hormone (LH)	mU/ml	2.09	1.67	2.51	Beckman Access / Access 2
	mU/ml	2.01	1.61	2.41	Beckman Dxl600/800

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

Cat. No. IA3109 / IA3112 Lot No. 2105EC Size: 12 x 5ml / 4 x 5ml Expiry: 2024-12-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	119	95.2	143	Beckman Access / Access 2
	pg/ml	32.4	25.9	38.9	
	pmol/l	135	108	162	Beckman Access / Access 2 Sensitive B84493
	pg/ml	36.7	29.4	44.0	
	pmol/l	117	93.6	140	Beckman Dxl600/800
	pg/ml	31.8	25.4	38.2	
	pmol/l	116	92.8	139	Beckman Dxl600/800 Sensitive B84493
	pg/ml	31.6	25.3	37.9	
Progesterone	nmol/l	2.91	2.33	3.49	Beckman Access / Access 2 Prog Cal 33555
	ng/ml	0.911	0.729	1.09	
	nmol/l	2.71	2.17	3.25	Beckman Access / Access 2 Prog DE Cal A80773
	ng/ml	0.848	0.678	1.02	
	nmol/l	2.85	2.28	3.42	Beckman Dxl600/800 Prog Cal 33555
	ng/ml	0.892	0.714	1.07	
	nmol/l	2.17	1.74	2.60	Beckman Dxl600/800 Prog DE Cal A80773
	ng/ml	0.679	0.543	0.815	
Prolactin	µU/ml	143	114	172	Beckman Access / Access 2
	µg/l	6.75	5.40	8.10	
	µU/ml	139	111	167	Beckman Dxl600/800
	µg/l	6.56	5.25	7.87	
PSA Free	ng/ml = µg/l	1.84	1.38	2.30	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = µg/l	1.72	1.29	2.15	Beckman Access / Access 2 standardised to WHO IRP96/670
	ng/ml = µg/l	1.79	1.34	2.24	Beckman Dxl600/800 standardised to Hybritech
	ng/ml = µg/l	1.69	1.27	2.11	Beckman Dxl600/800 standardised to WHO IRP96/670
PSA Total	ng/ml = µg/l	1.62	1.22	2.02	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = µg/l	1.62	1.22	2.02	Beckman Access / Access 2 standardised to WHO IRP96/670
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Dxl600/800 standardised to Hybritech
	ng/ml = µg/l	1.34	1.01	1.67	Beckman Dxl600/800 standardised to WHO IRP96/670
SHBG	nmol/l	11.8	9.44	14.2	Beckman Access / Access 2
	nmol/l	12.0	9.60	14.4	Beckman Dxl600/800
Testosterone	nmol/l	1.84	1.47	2.21	Beckman Access / Access 2
	ng/ml	0.530	0.424	0.636	
	ng/dl	53.0	42.4	63.6	
	nmol/l	1.68	1.34	2.02	Beckman Dxl600/800
	ng/ml	0.484	0.387	0.581	
	ng/dl	48.4	38.7	58.1	
Thyroglobulin	ng/ml	1.84	1.38	2.30	Beckman Access / Access 2
	ng/ml	1.71	1.28	2.14	Beckman Dxl600/800
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.065	0.052	0.078	Beckman Access / Access 2 Fast TSH
	µU/ml = mIU/l	0.062	0.050	0.074	Beckman Access / Access 2 hyperTSH 3rd Generation
	µU/ml = mIU/l	0.060	0.048	0.072	Beckman Dxl600/800
	µU/ml = mIU/l	0.061	0.049	0.073	Beckman Dxl600/800 Fast TSH
	µU/ml = mIU/l	0.060	0.048	0.072	Beckman Dxl600/800 Hyper TSH
	µU/ml = mIU/l	0.062	0.050	0.074	Beckman Dxl600/800 Access (3rd IS)

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

Cat. No. IA3109 / IA3112		Lot No. 2105EC	Size: 12 x 5ml / 4 x 5ml		Expiry: 2024-12-28	
Analyte	unit	Target	Range		methods	
			low	high		
Total Beta hCG	mU/ml = IU/l	15.7	12.6	18.8	Beckman Access / Access 2	
	IU/ml	0.0157	0.0126	0.0188		
	mU/ml = IU/l	15.5	12.4	18.6	Beckman Access / Access 2 Total BhCG (5th IS)	
	IU/ml	0.0155	0.0124	0.0186		
	mU/ml = IU/l	16.0	12.8	19.2	Beckman Dxl600/800	
	IU/ml	0.0160	0.0128	0.0192		
	mU/ml = IU/l	16.2	13.0	19.4	Beckman Dxl600/800 Total BhCG (5th IS)	
IU/ml	0.0162	0.0130	0.0194			
Total T3	nmol/l	1.11	0.833	1.39	Beckman Access / Access 2	
	ng/ml	0.723	0.542	0.904		
	ng/dl	72.3	54.2	90.4		
	nmol/l	1.08	0.810	1.35	Beckman Dxl600/800	
	ng/ml	0.703	0.527	0.879		
	ng/dl	70.3	52.7	87.9		
Total T4	nmol/l	29.1	21.8	36.4	Beckman Access / Access 2	
	µg/dl	2.27	1.70	2.84		
	ng/ml	22.7	17.0	28.4		
	nmol/l	26.0	19.5	32.5	Beckman Dxl600/800	
	µg/dl	2.03	1.52	2.54		
	ng/ml	20.3	15.2	25.4		
Vitamin B12	pmol/l	105	84.0	126	Beckman Access / Access 2	
	pg/ml	142	114	170		
	pmol/l	98.9	79.1	119	Beckman Dxl600/800	
	pg/ml	134	107	161		

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109/ IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
CA 19-9	U/ml	55.2	44.2-66.2	Siemens Atellica IM reagent lot 052517

EC REP Radox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

16 Jan '23 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL 1
(IA PREMIUM PLUS 1)
Cat No. IA3109 / IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENTS	UNITS	TARGET	RANGE	METHOD
C-Peptide	nmol/l	0.629	0.474 – 0.785	Ortho Vitros ECI
	ng/ml	1.90	1.43 – 2.37	
Insulin	mU/l	<1.00	-----	Ortho Vitros ECI
	µU/ml	<1.00	-----	

EC	REP
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Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

11 Apr '22 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109 / IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
17-OH Progesterone	nmol/l	4.38	3.07 – 5.69	SNIBE Maglumi Analysers
	ng/ml	1.45	1.02 – 1.88	
25-OH Vitamin D	nmol/l	53.4	37.4 – 69.4	SNIBE Maglumi Analysers
25-OH Vitamin D	nmol/l	47.2	33.0 – 61.4	SNIBE Maglumi Analysers II
Aldosterone	pmol/l	76.7	57.5 - 95.9	SNIBE Maglumi Analysers
	pg/ml	27.7	20.8 – 34.6	
Alpha-foetoprotein	KIU/l = IU/ml	9.90	7.92 – 11.9	SNIBE Maglumi Analysers
	ng/ml	12.0	9.60 – 14.4	
Androstenedione	nmol/l	7.12	5.34 – 8.90	SNIBE Maglumi Analysers
	ng/ml	2.04	1.53 – 2.55	
Beta-2-microglobulin	µg/ml = mg/l	0.697	0.558 – 0.836	SNIBE Maglumi Analysers
CA125	U/ml	25.1	20.1 – 30.1	SNIBE Maglumi Analysers
CA 15-3	U/ml	29.2	20.4 – 38.0	SNIBE Maglumi Analysers
CA 19-9	U/ml	20.4	16.3 – 24.5	SNIBE Maglumi Analysers
C-Peptide	nmol/l	0.746	0.560 - 0.932	SNIBE Maglumi Analysers
	ng/ml	2.25	1.69 – 2.81	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	4.60	3.68 – 5.52	SNIBE Maglumi Analysers
Cortisol	nmol/l	328	246 – 410	SNIBE Maglumi Analysers
	µg/dl	11.8	8.85 – 14.8	
DHEA-S	µmol/l	2.59	2.07 – 3.11	SNIBE Maglumi Analysers
Digoxin	nmol/l	0.328	0.230 – 0.426	SNIBE Maglumi Analysers
	ng/ml	0.256	0.179 – 0.333	
Ferritin	ng/ml = µg/l	11.0	8.80 – 13.2	SNIBE Maglumi Analysers
Folate	nmol/l	5.28	4.01 – 6.55	SNIBE Maglumi Analysers
	ng/ml	2.33	1.77 – 2.89	
Free T3	pmol/l	2.78	2.09 – 3.47	SNIBE Maglumi Analysers
	ng/dl	0.181	0.136 – 0.226	
	pg/ml	1.81	1.36 – 2.26	

COMPONENT	UNITS	TARGET	RANGE	METHOD
Free T4	pmol/l	13.4	10.1 – 16.7	SNIBE Maglumi Analysers
	ng/dl	1.05	0.788 – 1.31	
	pg/ml	10.5	7.88 – 13.1	
FSH	mU/ml	7.60	6.08 – 9.12	SNIBE Maglumi Analysers
Growth Hormone (GH)	µU/ml	6.20	4.96 – 7.44	SNIBE Maglumi Analysers
	ng/ml	2.06	1.65 – 2.47	
Immunoglobulin E	KIU/l = IU/ml	198	158 – 238	SNIBE Maglumi Analysers
Insulin	mU/l	2.30	1.73 – 2.87	SNIBE Maglumi Analysers
Luteinising Hormone (LH)	mU/ml	4.58	3.66 – 5.50	SNIBE Maglumi Analysers
Oestradiol	pmol/l	196	157 – 235	SNIBE Maglumi Analysers
	pg/ml	53.3	42.6 – 64.0	
Prolactin	µU/ml	157	126 – 188	SNIBE Maglumi Analysers
PSA Free	ng/ml = µg/l	1.09	0.818 – 1.36	SNIBE Maglumi Analysers
PSA Total	ng/ml = µg/l	1.40	1.05 – 1.75	SNIBE Maglumi Analysers
SHBG	nmol/l	13.9	11.1 – 16.7	SNIBE Maglumi Analysers
Thyroid Stimulating Hormone	µU/ml = mIU/l	<1.000	---	SNIBE Maglumi Analysers
Total Beta hCG	mU/ml=IU/l	11.4	9.12 – 13.7	SNIBE Maglumi Analysers
	IU/ml	0.011	0.009 – 0.013	
Total T3	nmol/l	0.815	0.611 – 1.02	SNIBE Maglumi Analysers
	ng/ml	0.531	0.398 – 0.664	
	ng/dl	53.1	39.8 – 66.4	
Total T4	nmol/l	38.0	28.5 – 47.5	SNIBE Maglumi Analysers
	µg/dl	2.96	2.22 – 3.70	
	ng/ml	29.6	22.2 – 37.0	

EC REP

Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

Rev. 22 Sep '22 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109 / IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Thyroid Stimulating Hormone	µU/ml	0.063	0.050 – 0.076	Ortho Vitros ECI
	mIU/l	0.063	0.050 – 0.076	

EC	REP
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Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

02 Dec '22 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109 / IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Amikacin	µmol/l	6.23	4.98 – 7.48	EMIT
	µg/ml	3.65	2.92 – 4.38	
Digoxin	nmol/l	0.641	0.513 – 0.769	Siemens Atellica CH
	ng/ml	0.501	0.401 – 0.601	
Paracetamol	mmol/l	0.165	0.132 – 0.198	Siemens Atellica CH
	mg/l	25.0	20.0 – 30.0	
Progesterone	nmol/l	2.74	2.19 – 3.29	Siemens Atellica IM
	ng/ml	0.858	0.686 – 1.03	
Theophylline	µmol/l	19.4	15.5 – 23.3	Siemens Atellica CH
	µg/ml	3.50	2.80 – 4.20	

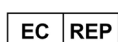
EC	REP
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Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

19 Oct '22 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109/ IA3112
Lot No. 2105EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Progesterone	nmol/l	2.67	2.14 – 3.20	Siemens Atellica IM
	ng/ml	0.836	0.669 – 1.00	



Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

18 Jan '23 me

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

CAT. NO. IA3109	GTIN: 05055273207255	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. 2105EC	EXPIRY: 2024-12-28	

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 tested immediately after the 30-minute reconstitution period. 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 lyophilized.

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 I: 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. 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.



Randox Teoranta, Meenmore,
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(S). 05 Nov '24 me

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

Cat. No. IA3109 / IA3112 Lot No.2105EC Size: 12 x 5ml / 4 x 5ml Expiry: [2024-12-28]

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	ng/ml	10.2	7.48	13.0	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		10.9	7.98	13.9	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
CA 15-3	U/ml	13.4	9.12	17.7	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		13.9	9.48	18.4	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
CA 19-9	U/ml	19.5	14.3	24.8	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		20.0	14.6	25.3	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
CA125	U/ml	34.7	25.4	44.1	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		35.9	26.2	45.6	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Carcinoembryonic Antigen (CEA)	ng/ml	3.84	2.81	4.88	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		3.92	2.86	4.98	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
DHEA-S	µg/dl	82.0	59.9	104	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		85.7	62.6	109	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Oestradiol	pg/mL	33.9	23.1	44.7	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i <= Lot 230501
		31.3	21.3	41.3	Wiener Lab CLIA Series & Mindray CL 900i <= Lot 230501
		75.2	51.1	99.3	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i >= Lot 231001
		75.2	51.1	99.3	Wiener Lab CLIA Series & Mindray CL 900i >= Lot 231001
		51.8	35.2	68.4	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		52.5	35.7	69.4	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Ferritin	ng/ml	9.17	6.69	11.6	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		9.58	7.00	12.2	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Folate	ng/ml	5.79	4.22	7.35	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		5.43	3.97	6.90	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
FSH	mIU/mL	8.21	5.99	10.4	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i <= Lot 231101
		8.31	6.06	10.5	Wiener Lab CLIA Series & Mindray CL 900i <= Lot 231101
		6.62	3.98	9.26	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i >= Lot 240401
		6.62	3.98	9.26	Wiener Lab CLIA Series & Mindray CL 900i >= Lot 240401
Insulin	µIU/ml	1.74	1.18	2.30	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		1.96	1.33	2.58	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Luteinising Hormone (LH)	mIU/ml	3.44	2.51	4.37	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		3.43	2.50	4.35	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Progesterone	ng/mL	0.974	0.711	1.24	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		0.988	0.721	1.25	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
		0.744	0.506	0.983	Wiener Lab CLIA Series & Mindray PROG II CL 8000i/6000i/2000i/1200i/1000i
		0.744	0.506	0.983	Wiener Lab CLIA Series & Mindray PROG II CL 900i
Prolactin	ng/ml	9.33	6.81	11.9	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		9.34	6.82	11.9	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i

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

Cat. No. IA3109 / IA3112 Lot No.2105EC Size: 12 x 5ml / 4 x 5ml Expiry: [2024-12-28]

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml	1.65	1.21	2.10	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		1.72	1.26	2.19	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
PSA Total	ng/ml	1.83	1.34	2.32	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		1.86	1.35	2.36	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Testosterone	ng/mL	0.422	0.308	0.536	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: TESTO 11X
		0.358	0.261	0.455	Wiener Lab CLIA Series & Mindray CL 900i Ref: TESTO 11X
		0.217	0.130	0.304	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref 105-0025XX-00
		0.215	0.129	0.301	Wiener Lab CLIA Series & Mindray CL 900i Ref 105-0025XX-00
		0.478	0.325	0.631	Wiener Lab CLIA Series & Mindray TESTO II CL 8/6/2/12/1000i
		0.478	0.325	0.631	Wiener Lab CLIA Series & Mindray TESTO II CL 900i
Total Beta Hcg	mIU/mL	15.0	8.97	21.0	Wiener Lab CLIA Series & Mindray hCG2 8000/6000/2000/1200/1000i
		15.0	8.97	21.0	Wiener Lab CLIA Series & Mindray hCG2 CL 900i
		13.2	8.97	17.4	Wiener Lab CLIA Series & Mindray hCG 8000/6000/2000/1200/1000i
		13.4	9.14	17.7	Wiener Lab CLIA Series & Mindray hCG CL 900i/920i/960i/980i
Vitamin B12	pg/mL	208	152	264	Wiener Lab CLIA Series & Mindray CL 8000i/6000i/2000i/1200i/1000i
		209	153	266	Wiener Lab CLIA Series & Mindray CL 900i/920i/960i/980i
Thyroid Stimulating Hormone	µIU/mL	0.107	0.073	0.142	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: TSH 11X
		0.109	0.074	0.143	Wiener Lab CLIA Series & Mindray CL 900i Ref: TSH 11X
		0.067	0.045	0.088	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i TSH105-0042XX-00
		0.067	0.045	0.088	Wiener Lab CLIA Series & Mindray CL 900i TSH 105-0042XX-00
Free T3	pg/mL	2.33	1.59	3.08	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: FT3 11X
		2.31	1.57	3.05	Wiener Lab CLIA Series & Mindray CL 900i Ref: FT3 11X
		2.33	1.59	3.08	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i FT3 105-0042XX-00
		2.31	1.57	3.05	Wiener Lab CLIA Series & Mindray CL 900i FT3 105-0042XX-00
Free T4	ng/dL	0.825	0.561	1.09	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: FT4 11X
		0.772	0.525	1.02	Wiener Lab CLIA Series & Mindray CL 900i Ref: FT4 11X
		1.15	0.780	1.51	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i FT4 105-0042XX-00
		1.14	0.775	1.51	Wiener Lab CLIA Series & Mindray CL 900i FT4 105-0042XX-00
Total T3	ng/mL	0.456	0.310	0.601	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: T3 11X
		0.424	0.288	0.560	Wiener Lab CLIA Series & Mindray CL 900i Ref: T3 11X
		0.509	0.346	0.672	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i T3 105-0042XX-00
		0.504	0.343	0.666	Wiener Lab CLIA Series & Mindray CL 900i T3 105-0042XX-00
Total T4	µg/dL	2.01	1.37	2.65	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i Ref: T4 11X
		1.94	1.32	2.55	Wiener Lab CLIA Series & Mindray CL 900i Ref: T4 11X
		2.30	1.56	3.03	Wiener Lab CLIA Series & Mindray CL 8/6/2/12/1000i T4 105-0042XX-00
		2.24	1.52	2.96	Wiener Lab CLIA Series & Mindray CL 900i T4 105-0042XX-00