

PRODUCT INFORMATION

IA2638 / IA2633

2029EC

The reconstituted stability for Immunoassay Premium Level 1 - lot 2029EC for **Free PSA and Total PSA is 2 days, when stored at +2°C to +8°C.**

Free PSA and Total PSA are stable for 28 days, when frozen once and stored at -20°C.

CCS6934

IMMUNOASSAY PREMIUM - LEVEL I (IA PREMIUM I)

CAT. NO. IA2638
CAT. NO. IA2633
LOT NO. 2029EC

GTIN: 05055273203844
GTIN: 05055273203837
EXPIRY: 2023-11-28

SIZE: 12 x 5 ml
SIZE: 4 x 5 ml

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. Free PSA and Total PSA are stable for 2 days at +2°C to +8°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 is supplied lyophilised.

- 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.
- Refer to the Control section of the individual analyser application.
- Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED

Immunoassay Premium - 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 is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Aldosterone is present in control levels 2 and level 3 only. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

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



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

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IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	3.43	2.57	4.29	Immunotech RIA
	ng/ml	1.14	0.851	1.43	
	nmol/l	3.81	2.86	4.76	ELISA
	ng/ml	1.26	0.947	1.57	
	nmol/l	3.28	2.46	4.10	Novatec ELISA
	ng/ml	1.09	0.814	1.37	
	nmol/l	3.56	2.67	4.45	DRG ELISA
	ng/ml	1.18	0.884	1.48	
25-OH Vitamin D	nmol/l	4.62	3.47	5.78	DIAsource RIA
	ng/ml	1.53	1.15	1.91	
	nmol/l	3.77	2.83	4.71	DIAsource ELISA
	ng/ml	1.25	0.937	1.56	
	nmol/l	3.21	2.41	4.01	IBL ELISA
	ng/ml	1.06	0.798	1.32	
	nmol/l	52.1	39.1	65.1	Diasorin Liaison
	nmol/l	46.7	35.0	58.4	Siemens Centaur XP/XPT/Classic
	nmol/l	23.1	17.3	28.9	Roche Vitamin D Total
	nmol/l	23.5	17.6	29.4	Abbott Architect (3L52)
	nmol/l	98.9	74.2	124	Vitros Eci
	nmol/l	39.6	29.7	49.5	Tosoh Series
	nmol/l	34.9	26.2	43.6	BioMerieux Vidas
	nmol/l	53.5	40.1	66.9	Beckman Dxl 600/800
nmol/l	21.0	15.8	26.3	Fujirebio Lumipulse G Series	
nmol/l	53.8	40.4	67.3	Beckman Access 25 OH Vitamin D Total	
nmol/l	22.1	16.6	27.6	LC/MS	
nmol/l	23.2	17.4	29.0	Abbott Architect (5P02)/ Alinity (8P45)	
nmol/l	55.1	41.3	68.9	Diasorin Liaison XL	
nmol/l	23.4	17.6	29.3	Roche Vitamin D Total II	
nmol/l	23.6	17.7	29.5	Abbott Alinity i	
nmol/l	26.9	20.2	33.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	1.10	0.825	1.38	Siemens Immulite 2000/2500
	pg/ml	5.00	3.75	6.25	
	pmol/l	0.644	0.483	0.805	Roche Cobas e601/602
	pg/ml	2.93	2.20	3.66	
	pmol/l	2.09	1.57	2.61	Siemens Immulite 1000
	pg/ml	9.50	7.14	11.9	
	pmol/l	0.765	0.574	0.956	Roche Elecsys
	pg/ml	3.48	2.61	4.35	
pmol/l	0.623	0.467	0.779	Diasorin Liaison	
pg/ml	2.83	2.12	3.54		
pmol/l	0.345	0.259	0.431	Roche Cobas e801	
pg/ml	1.57	1.18	1.96		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	8.91	7.13	10.7	Abbott Architect
	ng/ml	10.8	8.63	13.0	
	KIU/l = IU/ml	8.23	6.58	9.88	BioMerieux Vidas
	ng/ml	9.96	7.96	12.0	
	KIU/l = IU/ml	10.6	8.37	12.8	Siemens Centaur XP/XPT/Classic
	ng/ml	12.8	10.1	15.5	
	KIU/l = IU/ml	9.37	7.50	11.2	Siemens Immulite 2000/2500
	ng/ml	11.3	9.08	13.5	
	KIU/l = IU/ml	9.37	7.50	11.2	Siemens Immulite 1000
	ng/ml	11.3	9.08	13.5	
	KIU/l = IU/ml	9.27	7.42	11.1	Beckman Dxl800
	ng/ml	11.2	8.98	13.4	
	KIU/l = IU/ml	9.95	7.96	11.9	Roche Elecsys
	ng/ml	12.0	9.63	14.4	
	KIU/l = IU/ml	9.88	7.90	11.9	Diasorin Liaison
	ng/ml	12.0	9.56	14.4	
	KIU/l = IU/ml	9.19	7.35	11.0	Beckman Access
	ng/ml	11.1	8.89	13.3	
	KIU/l = IU/ml	9.87	7.90	11.8	Tosoh Series
	ng/ml	11.9	9.56	14.2	
KIU/l = IU/ml	9.70	7.76	11.6	Vitros ECi	
ng/ml	10.1	8.08	12.1		
KIU/l = IU/ml	10.2	8.16	12.2	Roche Cobas e601/602	
ng/ml	12.3	9.87	14.7		
KIU/l = IU/ml	19.7	15.8	23.6	CIS IRMA	
ng/ml	23.8	19.1	28.5		
KIU/l = IU/ml	9.98	7.98	12.0	Roche Cobas 4000/E411	
ng/ml	12.1	9.66	14.5		
KIU/l = IU/ml	10.2	8.06	12.3	Siemens Centaur CP	
ng/ml	12.3	9.72	14.9		
KIU/l = IU/ml	10.5	8.40	12.6	Diasorin Liaison XL	
ng/ml	12.7	10.2	15.2		
KIU/l = IU/ml	10.9	8.72	13.1	Siemens Atellica IM	
ng/ml	13.2	10.6	15.8		
KIU/l = IU/ml	8.93	7.14	10.7	Abbott Alinity i	
ng/ml	10.8	8.64	13.0		
KIU/l = IU/ml	10.3	8.24	12.4	Roche Cobas e801	
ng/ml	12.5	9.97	15.0		
Amikacin	µmol/l	6.38	5.10	7.66	Roche Cobas 6000/8000
	µg/ml	3.74	2.99	4.49	
	µmol/l	6.23	4.98	7.48	Thermo Scientific QMS Amikacin
	µg/ml	3.65	2.92	4.38	
Androstenedione	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
Androstenedione	nmol/l	3.61	2.71	4.51	Beckman Coulter RIA
	ng/ml	1.04	0.778	1.30	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Androstenedione	nmol/l	5.92	4.44	7.40	Siemens Immulite 2000
	ng/ml	1.70	1.27	2.13	
	nmol/l	5.72	4.29	7.15	Siemens Immulite 1000
	ng/ml	1.64	1.23	2.05	
	nmol/l	5.59	4.19	6.99	Diasorin Liaison XL
	ng/ml	1.60	1.20	2.00	
Beta-2-microglobulin	µg/ml = mg/l	0.916	0.733	1.10	Abbott Architect
	µg/ml = mg/l	0.995	0.796	1.19	BioMerieux Vidas
	µg/ml = mg/l	0.888	0.710	1.07	Behring Nephelometer
	µg/ml = mg/l	0.883	0.706	1.06	Siemens Immulite 2000/2500
	µg/ml = mg/l	0.900	0.720	1.08	Siemens Immulite 1000
	µg/ml = mg/l	0.983	0.786	1.18	Tosoh Series
	µg/ml = mg/l	1.07	0.856	1.28	Roche Cobas 6000/8000
	µg/ml = mg/l	0.844	0.675	1.01	Siemens Atellica CH
	µg/ml = mg/l	0.955	0.764	1.15	Abbott Alinity
C-Peptide	nmol/l	0.664	0.498	0.830	Siemens Immulite 2000/2500
	ng/ml	2.00	1.50	2.50	
	nmol/l	0.835	0.626	1.040	Roche Elecsys
	ng/ml	2.52	1.89	3.15	
	nmol/l	0.822	0.617	1.030	Roche Cobas e601/602
	ng/ml	2.48	1.86	3.10	
	nmol/l	0.879	0.659	1.100	Diasorin Liaison
	ng/ml	2.65	1.99	3.31	
	nmol/l	0.826	0.620	1.030	Roche Cobas 4000/E411
	ng/ml	2.49	1.87	3.11	
	nmol/l	0.735	0.551	0.919	Abbott Architect
	ng/ml	2.22	1.66	2.78	
	nmol/l	0.562	0.393	0.731	Siemens Centaur XP/XPT/Classic
	ng/ml	1.70	1.19	2.21	
	nmol/l	0.752	0.564	0.940	Tosoh Series
	ng/ml	2.27	1.70	2.84	
	nmol/l	0.837	0.628	1.050	Diasorin Liaison XL
	ng/ml	2.53	1.90	3.16	
	nmol/l	0.810	0.608	1.010	Roche Cobas e801
	ng/ml	2.45	1.84	3.06	
	nmol/l	0.567	0.425	0.709	Siemens Atellica IM
	ng/ml	1.71	1.28	2.14	
	nmol/l	0.726	0.545	0.908	Abbott Alinity i
	ng/ml	2.19	1.65	2.73	
Carbamazepine	µmol/l	15.9	12.7	19.1	Abbott Architect (CMIA)
	µg/ml	3.76	3.00	4.52	
	µmol/l	17.3	12.5	22.1	Siemens Centaur XP/XPT/Classic
	µg/ml	4.09	2.94	5.24	
	µmol/l	13.8	11.0	16.6	Siemens Dimension
	µg/ml	3.26	2.60	3.92	
	µmol/l	12.8	10.2	15.4	Siemens Immulite 2000/2500
	µg/ml	3.03	2.41	3.65	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	11.7	9.36	14.0	Siemens Immulite 1000
	µg/ml	2.77	2.21	3.33	
	µmol/l	15.8	12.6	19.0	Roche Integra
	µg/ml	3.74	2.98	4.50	
	µmol/l	14.3	11.4	17.2	Roche Cobas 6000/8000
	µg/ml	3.38	2.69	4.07	
	µmol/l	15.7	12.6	18.8	Beckman DxC
	µg/ml	3.71	2.98	4.44	
	µmol/l	16.7	13.4	20.0	Beckman AU400/600/640/2700/5400
	µg/ml	3.95	3.17	4.73	
	µmol/l	14.2	11.4	17.0	Abbott Architect (PETINA)
	µg/ml	3.36	2.69	4.03	
	µmol/l	16.1	12.9	19.3	EMIT
	µg/ml	3.81	3.05	4.57	
	µmol/l	14.8	11.8	17.8	Siemens Atellica CH
	µg/ml	3.50	2.79	4.21	
µmol/l	13.7	11.0	16.4	Abbott Alinity (PETINA)	
µg/ml	3.24	2.60	3.88		
µmol/l	15.4	12.3	18.5	Gravimetric	
µg/ml	3.64	2.91	4.37		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	2.73	2.18	3.28	Roche Cobas 4000/E411
	ng/ml = µg/l	2.74	2.19	3.29	Roche Cobas e801
Cortisol	nmol/l	209	157	261	Abbott Architect
	µg/dl	7.52	5.65	9.39	
	nmol/l	142	107	178	BioMerieux Vidas
	µg/dl	5.11	3.85	6.37	
	nmol/l	186	123	249	Siemens Centaur XP/XPT/Classic
	µg/dl	6.70	4.42	8.98	
	nmol/l	175	131	219	CIS RIA
	µg/dl	6.30	4.72	7.88	
	nmol/l	186	140	233	Siemens Immulite 2000/2500
	µg/dl	6.70	5.04	8.36	
	nmol/l	202	152	253	Siemens Immulite 1000
	µg/dl	7.27	5.47	9.07	
	nmol/l	206	155	258	Beckman Dxl800
	µg/dl	7.42	5.58	9.26	
	nmol/l	186	140	233	Roche Elecsys
	µg/dl	6.70	5.04	8.36	
	nmol/l	264	198	330	Diasorin Liaison
	µg/dl	9.50	7.13	11.9	
nmol/l	210	158	263	Beckman Access	
µg/dl	7.56	5.69	9.43		
nmol/l	177	133	221	Tosoh Series	
µg/dl	6.37	4.79	7.95		
nmol/l	157	118	196	Vitros ECi	
µg/dl	5.65	4.25	7.05		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	181	136	226	Roche Cobas e601/602
	µg/dl	6.52	4.90	8.14	
	nmol/l	196	147	245	Roche Cobas 4000/E411
	µg/dl	7.06	5.29	8.83	
	nmol/l	200	132	268	Siemens Centaur CP
	µg/dl	7.20	4.75	9.65	
	nmol/l	195	146	244	Roche Cobas 4000/e411 Gen II
	µg/dl	7.02	5.26	8.78	
	nmol/l	179	134	224	Roche Cobas e601/602 Gen II
	µg/dl	6.44	4.82	8.06	
	nmol/l	193	145	241	Roche Elecsys Gen II
	µg/dl	6.95	5.22	8.68	
	nmol/l	270	203	338	Diasorin Liaison XL
	µg/dl	9.72	7.31	12.1	
DHEA-S	nmol/l	217	163	271	Siemens Atellica IM
	µg/dl	7.81	5.87	9.75	
	nmol/l	179	134	224	Roche Cobas e801
	µg/dl	6.44	4.82	8.06	
	nmol/l	208	156	260	Abbott Alinity i
	µg/dl	7.49	5.62	9.36	
	µmol/l	2.76	2.21	3.31	Abbott Architect
	µmol/l	2.22	1.78	2.66	Siemens Immulite 2000/2500
	µmol/l	2.18	1.74	2.62	Siemens Immulite 1000
	µmol/l	2.76	2.21	3.31	Beckman DxI800
	µmol/l	3.62	2.90	4.34	Roche Elecsys
	µmol/l	2.93	2.34	3.52	Beckman Access
	µmol/l	2.17	1.41	2.93	Siemens Centaur XP/XPT/Classic
	µmol/l	3.57	2.86	4.28	Roche Cobas 4000/E411
µmol/l	3.40	2.72	4.08	Roche Cobas e601/602	
µmol/l	2.23	1.78	2.68	Diasorin Liaison XL	
µmol/l	2.06	1.65	2.47	Siemens Atellica IM	
µmol/l	3.32	2.66	3.98	Roche Cobas e801	
Digoxin	nmol/l	0.582	0.466	0.698	Abbott Architect (CMIA)
	ng/ml	0.455	0.364	0.546	
	nmol/l	0.632	0.506	0.758	BioMerieux Vidas
	ng/ml	0.494	0.395	0.593	
	nmol/l	0.914	0.686	1.14	Siemens Centaur XP/XPT/Classic
	ng/ml	0.714	0.536	0.892	
	nmol/l	0.779	0.623	0.935	Siemens Dimension
	ng/ml	0.608	0.487	0.729	
	nmol/l	0.614	0.491	0.737	Siemens Immulite 2000/2500
	ng/ml	0.480	0.383	0.577	
	nmol/l	0.748	0.598	0.898	Beckman DxI800
	ng/ml	0.584	0.467	0.701	
	nmol/l	0.874	0.699	1.05	Roche Integra
	ng/ml	0.683	0.546	0.820	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	0.824	0.659	0.989	Roche Cobas e601/602
	ng/ml	0.644	0.515	0.773	
	nmol/l	0.931	0.745	1.12	Roche Cobas 4000/E411
	ng/ml	0.727	0.582	0.872	
	nmol/l	0.857	0.686	1.03	Roche Cobas e801
	ng/ml	0.669	0.536	0.802	
	nmol/l	0.998	0.798	1.20	Siemens Atellica IM
	ng/ml	0.779	0.623	0.935	
Ethosuximide	nmol/l	0.714	0.571	0.857	Abbott Alinity (PETINA)
	ng/ml	0.558	0.446	0.670	
Ethosuximide	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	14.4	11.5	17.3	Abbott Architect
	ng/ml = µg/l	11.0	8.80	13.2	BioMerieux Vidas
	ng/ml = µg/l	12.4	9.30	15.5	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	14.3	11.4	17.2	Siemens Dimension
	ng/ml = µg/l	13.2	10.6	15.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	12.7	10.2	15.2	Siemens Immulite 1000
	ng/ml = µg/l	9.93	7.94	11.9	Beckman Dxl800
	ng/ml = µg/l	16.0	12.8	19.2	Roche Elecsys/Cobas e411
	ng/ml = µg/l	12.6	10.1	15.1	Diasorin Liaison
	ng/ml = µg/l	16.2	13.0	19.4	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	9.91	7.93	11.9	Beckman Access
	ng/ml = µg/l	9.90	7.92	11.9	Tosoh Series
	ng/ml = µg/l	10.7	8.56	12.8	Vitros Eci
	ng/ml = µg/l	16.6	13.3	19.9	Roche Cobas 4000/c311
	ng/ml = µg/l	11.8	9.44	14.2	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	11.6	8.70	14.5	Siemens Centaur CP
	ng/ml = µg/l	13.1	10.5	15.7	Diasorin Liaison XL
	ng/ml = µg/l	15.3	12.2	18.4	Abbott Alinity i
ng/ml = µg/l	12.1	9.68	14.5	Siemens Atellica IM	
ng/ml = µg/l	16.0	12.8	19.2	Roche Cobas e801	
Folate	nmol/l	5.03	3.82	6.24	Abbott Architect
	ng/ml	2.22	1.68	2.76	
	nmol/l	9.35	5.14	13.6	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	4.12	2.27	5.97	
	nmol/l	4.27	3.25	5.29	Siemens Immulite 2000
	ng/ml	1.88	1.43	2.33	
	nmol/l	4.21	3.20	5.22	Beckman Dxl 600 / 800 - A14208
	ng/ml	1.86	1.41	2.31	
Folate	nmol/l	4.34	3.30	5.38	Beckman Access
	ng/ml	1.91	1.46	2.36	
Folate	nmol/l	7.88	5.99	9.77	Tosoh Series
	ng/ml	3.48	2.64	4.32	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Folate	nmol/l	4.55	3.46	5.64	Vitros ECI
	ng/ml	2.01	1.53	2.49	
	nmol/l	4.22	3.21	5.23	Beckman Dxl 600 / 800 - A98032
	ng/ml	1.86	1.42	2.30	
	nmol/l	4.13	3.14	5.12	Roche Elecsys Folate
	ng/ml	1.82	1.38	2.26	
	nmol/l	4.52	3.44	5.60	Roche Folate III - 07559992
	ng/ml	1.99	1.52	2.46	
	nmol/l	10.4	7.90	12.9	Siemens Atellica IM
	ng/ml	4.59	3.48	5.70	
	nmol/l	4.08	3.10	5.06	Roche Cobas e801
	ng/ml	1.80	1.37	2.23	
Free T3	pmol/l	5.95	4.46	7.44	Abbott Architect, 2 point calibration
	ng/dl	0.387	0.290	0.484	
	pg/ml	3.87	2.90	4.84	
	pmol/l	7.27	5.45	9.09	BioMerieux Vidas
	ng/dl	0.473	0.354	0.592	
	pg/ml	4.73	3.55	5.91	
	pmol/l	7.29	4.37	10.2	Siemens Centaur XP/XPT/Classic
	ng/dl	0.474	0.284	0.664	
	pg/ml	4.75	2.85	6.65	
	pmol/l	6.33	4.75	7.91	Siemens Immulite 2000/2500
	ng/dl	0.411	0.309	0.513	
	pg/ml	4.12	3.09	5.15	
	pmol/l	5.66	4.25	7.08	Siemens Immulite 1000
	ng/dl	0.368	0.276	0.460	
	pg/ml	3.68	2.77	4.59	
	pmol/l	6.19	4.64	7.74	Beckman Dxl800
	ng/dl	0.402	0.302	0.502	
	pg/ml	4.03	3.02	5.04	
	pmol/l	8.25	6.19	10.3	Roche Elecsys
	ng/dl	0.536	0.402	0.670	
	pg/ml	5.37	4.03	6.71	
	pmol/l	8.01	6.01	10.0	Diasorin Liaison
	ng/dl	0.521	0.391	0.651	
	pg/ml	5.21	3.91	6.51	
pmol/l	6.54	4.91	8.18	Beckman Access	
ng/dl	0.425	0.319	0.531		
pg/ml	4.26	3.20	5.32		
pmol/l	8.27	6.20	10.3	Tosoh Series	
ng/dl	0.538	0.403	0.673		
pg/ml	5.38	4.04	6.72		
pmol/l	17.4	13.1	21.8	Vitros ECI	
ng/dl	1.13	0.852	1.41		
pg/ml	11.3	8.53	14.1		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	8.15	6.11	10.2	Roche Cobas 4000/E411
	ng/dl	0.530	0.397	0.663	
	pg/ml	5.31	3.98	6.64	
	pmol/l	8.16	6.12	10.2	Roche Cobas e601/602
	ng/dl	0.530	0.398	0.662	
	pg/ml	5.31	3.98	6.64	
	pmol/l	7.56	4.54	10.6	Siemens Centaur CP
	ng/dl	0.491	0.295	0.687	
	pg/ml	4.92	2.95	6.89	
	pmol/l	7.15	5.36	8.94	Mindray CL-2000i
	ng/dl	0.465	0.348	0.582	
	pg/ml	4.65	3.49	5.81	
	pmol/l	8.52	6.39	10.7	Diasorin Liaison XL
	ng/dl	0.554	0.415	0.693	
	pg/ml	5.55	4.16	6.94	
	pmol/l	7.97	5.98	9.96	Siemens Atellica IM
	ng/dl	0.518	0.389	0.647	
	pg/ml	5.19	3.89	6.49	
pmol/l	6.01	4.51	7.51	Abbott Alinity, 2 point cal	
ng/dl	0.391	0.293	0.489		
pg/ml	3.91	2.94	4.88		
pmol/l	5.89	4.42	7.36	Abbott Architect, 6 point calibration	
ng/dl	0.383	0.287	0.479		
pg/ml	3.83	2.88	4.78		
pmol/l	7.94	5.96	9.93	Roche Cobas e801	
ng/dl	0.516	0.387	0.645		
pg/ml	5.17	3.88	6.46		
pmol/l	5.93	4.45	7.41	Abbott Alinity, 6 point cal	
ng/dl	0.385	0.289	0.481		
pg/ml	3.86	2.90	4.82		
Free T4	pmol/l	11.8	8.85	14.8	Abbott Architect
	ng/dl	0.920	0.690	1.15	
	pg/ml	9.20	6.90	11.5	
	pmol/l	10.4	7.80	13.0	Siemens Centaur XP/XPT/Classic
	ng/dl	0.811	0.608	1.01	
	pg/ml	8.11	6.08	10.1	
	pmol/l	15.2	11.4	19.0	CIS RIA Coated tube
	ng/dl	1.19	0.889	1.49	
	pg/ml	11.9	8.89	14.9	
	pmol/l	16.3	12.2	20.4	Siemens Immulite 2000/2500
	ng/dl	1.27	0.952	1.59	
	pg/ml	12.7	9.52	15.9	
	pmol/l	15.2	11.4	19.0	Siemens Immulite 1000
	ng/dl	1.19	0.889	1.49	
	pg/ml	11.9	8.89	14.9	
pmol/l	12.5	9.38	15.6	Beckman Dxl800	
ng/dl	0.975	0.732	1.22		
pg/ml	9.75	7.32	12.2		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	16.0	12.0	20.0	Roche Elecsys
	ng/dl	1.25	0.936	1.56	
	pg/ml	12.5	9.36	15.6	
	pmol/l	16.3	12.2	20.4	Diasorin Liaison
	ng/dl	1.27	0.952	1.59	
	pg/ml	12.7	9.52	15.9	
	pmol/l	13.0	9.75	16.3	Beckman Access
	ng/dl	1.01	0.761	1.26	
	pg/ml	10.1	7.61	12.6	
	pmol/l	13.3	9.98	16.6	Tosoh Series
	ng/dl	1.04	0.778	1.30	
	pg/ml	10.4	7.78	13.0	
	pmol/l	34.4	25.8	43.0	Vitros ECI
	ng/dl	2.68	2.01	3.35	
	pg/ml	26.8	20.1	33.5	
	pmol/l	15.7	11.8	19.6	Roche Cobas e601/602
	ng/dl	1.22	0.920	1.52	
	pg/ml	12.2	9.20	15.2	
	pmol/l	15.9	11.9	19.9	Roche Cobas 4000/E411
	ng/dl	1.24	0.928	1.55	
	pg/ml	12.4	9.28	15.5	
	pmol/l	13.3	9.98	16.6	Biomerieux Vidas FT4N Kit
	ng/dl	1.04	0.778	1.30	
	pg/ml	10.4	7.78	13.0	
pmol/l	11.3	8.48	14.1	Siemens Centaur CP	
ng/dl	0.881	0.661	1.10		
pg/ml	8.81	6.61	11.0		
pmol/l	13.5	10.1	16.9	Mindray CL-2000i	
ng/dl	1.05	0.788	1.31		
pg/ml	10.5	7.88	13.1		
pmol/l	17.1	12.8	21.4	Diasorin Liaison XL	
ng/dl	1.33	0.998	1.66		
pg/ml	13.3	9.98	16.6		
pmol/l	11.1	8.33	13.9	Siemens Atellica IM	
ng/dl	0.866	0.650	1.08		
pg/ml	8.66	6.50	10.8		
pmol/l	11.7	8.78	14.6	Abbott Alinity i	
ng/dl	0.913	0.685	1.14		
pg/ml	9.13	6.85	11.4		
pmol/l	16.3	12.2	20.4	Roche Cobas e801	
ng/dl	1.27	0.952	1.59		
pg/ml	12.7	9.52	15.9		
FSH	mU/ml	6.62	5.30	7.94	Abbott Architect
	mU/ml	7.30	5.84	8.76	BioMerieux Vidas

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	8.81	6.17	11.5	Siemens Centaur XP/XPT/Classic
	mU/ml	7.12	5.70	8.54	Siemens Immulite 2000/2500
	mU/ml	7.44	5.95	8.93	Siemens Immulite 1000
	mU/ml	7.87	6.30	9.44	Beckman Dxl800
	mU/ml	6.97	5.58	8.36	Roche/BM Elecsys
	mU/ml	10.8	8.64	13.0	Diasorin Liaison
	mU/ml	7.92	6.34	9.50	Beckman Access
	mU/ml	8.90	7.12	10.7	Tosoh Series
	mU/ml	5.66	4.53	6.79	Vitros ECI
	mU/ml	7.48	5.98	8.98	Roche Cobas 4000/E411
	mU/ml	6.79	5.43	8.15	Roche Cobas e601/602
	mU/ml	6.34	5.07	7.61	Fujirebio Lumipulse G Series
	mU/ml	6.67	4.67	8.67	Siemens Centaur CP
	mU/ml	8.21	6.57	9.85	Mindray CL-2000i
	mU/ml	12.2	9.76	14.6	Diasorin Liaison XL
	mU/ml	8.84	7.07	10.6	Siemens Atellica IM
	mU/ml	6.91	5.53	8.29	Abbott Alinity i
	mU/ml	7.10	5.68	8.52	Roche Cobas e801
Gentamicin	µmol/l	5.02	4.02	6.02	Roche Integra
	µg/ml	2.40	1.92	2.88	
	µmol/l	4.57	3.29	5.85	Siemens Centaur XP/XPT/Classic
	µg/ml	2.18	1.57	2.79	
	µmol/l	4.81	3.85	5.77	Abbott Architect (CMIA)
	µg/ml	2.30	1.84	2.76	
	µmol/l	3.89	3.11	4.67	Roche Cobas 6000/8000 Online KIMS
	µg/ml	1.86	1.49	2.23	
	µmol/l	4.35	3.48	5.22	Roche Cobas 6000/8000 CEDIA
	µg/ml	2.08	1.66	2.50	
	µmol/l	5.73	4.58	6.88	EMIT
	µg/ml	2.74	2.19	3.29	
µmol/l	5.02	4.02	6.02	Abbott Alinity (PETINA)	
µg/ml	2.40	1.92	2.88		
µmol/l	4.85	3.88	5.82	Gravimetric	
µg/ml	2.32	1.85	2.78		
Growth Hormone (GH)	µU/ml	4.24	3.39	5.09	Siemens Immulite 2000/2500
	ng/ml	1.41	1.13	1.69	
	µU/ml	4.09	3.27	4.91	Siemens Immulite 1000
	ng/ml	1.36	1.09	1.63	
	µU/ml	2.98	2.38	3.58	Beckman Dxl800
	ng/ml	0.992	0.793	1.19	
	µU/ml	3.27	2.62	3.92	Beckman Access
	ng/ml	1.09	0.872	1.31	
	µU/ml	3.52	2.82	4.22	Tosoh Series
ng/ml	1.17	0.939	1.40		
µU/ml	2.78	2.22	3.34	Diasorin Liaison	
ng/ml	0.926	0.739	1.11		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range						
Analyte	unit	Target	low	high	methods	
Growth Hormone (GH)	µU/ml	4.04	3.23	4.85	Roche Cobas 4000/E411	
	ng/ml	1.35	1.08	1.62		
	µU/ml	3.92	3.14	4.70	Roche Cobas e601/602	
	ng/ml	1.31	1.05	1.57		
	µU/ml	3.69	2.95	4.43	IDS iSYS	
	ng/ml	1.23	0.982	1.48		
	µU/ml	3.06	2.45	3.67	Diasorin Liaison XL	
	ng/ml	1.02	0.816	1.22		
	µU/ml	3.85	3.08	4.62	Roche Cobas e801	
	ng/ml	1.28	1.03	1.53		
	Immunoglobulin E	KIU/l = IU/ml	234	187	281	Abbott Architect
		KIU/l = IU/ml	205	164	246	BioMerieux Vidas
KIU/l = IU/ml		258	155	361	Siemens Centaur XP/XPT/Classic	
KIU/l = IU/ml		259	207	311	Siemens Immulite 2000/2500	
KIU/l = IU/ml		274	219	329	Siemens Immulite 1000	
KIU/l = IU/ml		257	206	308	Roche Elecsys	
KIU/l = IU/ml		229	183	275	Pharmacia Unicap	
KIU/l = IU/ml		221	177	265	Tosoh Series	
KIU/l = IU/ml		258	206	310	Roche Cobas 4000/E411	
KIU/l = IU/ml		255	204	306	Roche Cobas e601/602	
KIU/l = IU/ml		243	146	340	Siemens Centaur CP	
KIU/l = IU/ml		253	202	304	Siemens Atellica IM	
KIU/l = IU/ml		261	209	313	Roche Cobas e801	
KIU/l = IU/ml		241	193	289	Abbott Alinity i	
Insulin	mU/l	1.48	1.11	1.85	Siemens Centaur XP/XPT/Classic	
	µU/ml	1.48	1.11	1.85		
	mU/l	1.64	1.23	2.05	Roche Elecsys	
	µU/ml	1.64	1.23	2.05		
	mU/l	0.953	0.715	1.19	Beckman Access	
	µU/ml	0.953	0.715	1.19		
	mU/l	1.15	0.863	1.44	Abbott Architect	
	µU/ml	1.15	0.863	1.44		
	mU/l	1.77	1.33	2.21	Tosoh Series	
	µU/ml	1.77	1.33	2.21		
	mU/l	1.60	1.20	2.00	Roche Cobas 4000/E411	
	µU/ml	1.60	1.20	2.00		
	mU/l	0.938	0.704	1.17	Beckman Dxl 600/800	
	µU/ml	0.938	0.704	1.17		
	mU/l	1.08	0.810	1.35	Diasorin Liaison	
	µU/ml	1.08	0.810	1.35		
	mU/l	1.56	1.17	1.95	Roche Cobas 6000/8000	
	µU/ml	1.56	1.17	1.95		
	mU/l	1.27	0.953	1.59	Fujirebio Lumipulse G Series	
	µU/ml	1.27	0.953	1.59		
mU/l	1.40	1.05	1.75	Siemens Centaur CP		
µU/ml	1.40	1.05	1.75			

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	1.36	1.02	1.70	Siemens Atellica IM
	µU/ml	1.36	1.02	1.70	
Luteinising Hormone (LH)	mU/ml	2.68	2.14	3.22	Abbott Architect
	mU/ml	3.46	2.77	4.15	BioMerieux Vidas
	mU/ml	3.30	2.48	4.12	Siemens Centaur XP/XPT/Classic
	mU/ml	6.33	5.06	7.60	Siemens Immulite 2000
	mU/ml	7.04	5.63	8.45	Siemens Immulite 1000
	mU/ml	2.54	2.03	3.05	Beckman Dxl800
	mU/ml	4.13	3.30	4.96	Roche Elecsys
	mU/ml	4.11	3.29	4.93	Diasorin Liaison
	mU/ml	2.53	2.02	3.04	Beckman Access
	mU/ml	2.98	2.38	3.58	Tosoh Series
	mU/ml	6.75	5.40	8.10	Vitros ECi
	mU/ml	4.25	3.40	5.10	Roche Cobas 4000/E411
	mU/ml	4.24	3.39	5.09	Roche Cobas e601/602
	mU/ml	3.30	2.64	3.96	Fujirebio Lumipulse G Series
	mU/ml	3.02	2.27	3.77	Siemens Centaur CP
	mU/ml	4.26	3.41	5.11	Mindray CL-2000i
	mU/ml	4.58	3.66	5.50	Diasorin Liaison XL
	mU/ml	3.28	2.62	3.94	Siemens Atellica IM
	mU/ml	2.60	2.08	3.12	Abbott Alinity i
	mU/ml	4.30	3.44	5.16	Roche Cobas e801
Oestradiol	pmol/l	227	182	272	Abbott Architect
	pg/ml	61.7	49.5	73.9	
	pmol/l	243	194	292	BioMerieux Vidas
	pg/ml	66.1	52.8	79.4	
	pmol/l	208	125	291	Siemens Centaur XP/XPT/Classic
	pg/ml	56.6	34.0	79.2	
	pmol/l	145	116	174	Beckman Dxl800
	pg/ml	39.4	31.6	47.2	
	pmol/l	179	143	215	Roche Elecsys (Estradiol II)
	pg/ml	48.7	38.9	58.5	
	pmol/l	150	120	180	Beckman Access
	pg/ml	40.8	32.6	49.0	
	pmol/l	172	138	206	Vitros ECi
	pg/ml	46.8	37.5	56.1	
	pmol/l	192	154	230	Roche Cobas e601/602 (Estradiol II)
	pg/ml	52.2	41.9	62.5	
	pmol/l	174	139	209	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	47.3	37.8	56.8	
	pmol/l	204	122	286	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	55.5	33.3	77.7	
pmol/l	197	158	236	Tosoh (iE2-hsE2)	
pg/ml	53.6	43.0	64.2		
pmol/l	209	125	293	Siemens Centaur CP Enhanced (eE2)	
pg/ml	56.8	34.1	79.5		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	197	158	236	Roche Cobas e601/602 (Estradiol III)
	pg/ml	53.6	43.0	64.2	
	pmol/l	177	142	212	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	48.1	38.6	57.6	
	pmol/l	118	94.4	142	Diasorin Liaison XL
	pg/ml	32.1	25.7	38.5	
	pmol/l	142	114	170	Beckman Access / Access 2 Sensitive B84493
	pg/ml	38.6	31.0	46.2	
	pmol/l	149	119	179	Beckman Dxl600/800 Sensitive B84493
	pg/ml	40.5	32.4	48.6	
Paracetamol	pmol/l	208	166	250	Siemens Atellica IM
	pg/ml	56.6	45.2	68.0	
	pmol/l	215	172	258	Abbott Alinity i
	pg/ml	58.5	46.8	70.2	
	pmol/l	185	148	222	Roche Cobas e801 (Estradiol III)
	pg/ml	50.3	40.3	60.3	
	mmol/l	0.164	0.131	0.197	Abbott Architect
	mg/l	24.8	19.8	29.8	
	mmol/l	0.158	0.126	0.190	Roche Cobas c501/502/503/701/702
	mg/l	23.9	19.1	28.7	
Phenobarbital	mmol/l	0.169	0.135	0.203	Beckman AU Instruments
	mg/l	25.6	20.4	30.8	
	mmol/l	0.165	0.132	0.198	EMIT
	mg/l	25.0	20.0	30.0	
	mmol/l	0.162	0.130	0.194	Abbott Alinity
	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	
	µmol/l	34.5	27.6	41.4	Abbott Architect (CMIA)
	µg/ml	8.00	6.40	9.60	
Phenobarbital	µmol/l	32.5	26.0	39.0	Roche Cobas e601/602/801
	µg/ml	7.54	6.03	9.05	
	µmol/l	39.0	31.2	46.8	Siemens Immulite 2000/2500
	µg/ml	9.05	7.24	10.9	
	µmol/l	34.0	27.2	40.8	Beckman AU400/600/640/2700/5400
	µg/ml	7.89	6.31	9.47	
	µmol/l	47.6	33.3	61.9	Siemens Centaur XP/XPT/Classic
	µg/ml	11.0	7.70	14.3	
	µmol/l	34.2	27.4	41.0	Roche Integra
	µg/ml	7.93	6.36	9.50	
	µmol/l	39.6	31.7	47.5	Siemens Immulite 1000
	µg/ml	9.19	7.35	11.0	
	µmol/l	35.8	28.6	43.0	Siemens Atellica CH
	µg/ml	8.31	6.64	9.98	
	µmol/l	34.5	27.6	41.4	Gravimetric
	µg/ml	8.00	6.40	9.60	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Phenytoin	µmol/l	19.8	15.8	23.8	Abbott Architect
	µg/ml	5.00	3.99	6.01	
	µmol/l	20.2	15.2	25.2	Siemens Centaur XP/XPT/Classic
	µg/ml	5.10	3.83	6.37	
	µmol/l	20.5	16.4	24.6	Siemens Immulite 2000/2500
	µg/ml	5.18	4.14	6.22	
	µmol/l	19.7	15.8	23.6	Siemens Immulite 1000
	µg/ml	4.97	3.99	5.95	
	µmol/l	19.2	15.4	23.0	Roche Integra
	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	19.5	15.6	23.4	Beckman DxC
	µg/ml	4.92	3.94	5.90	
Primidone	µmol/l	19.1	15.3	22.9	EMIT
	µg/ml	4.82	3.86	5.78	
Progesterone	µmol/l	18.7	15.0	22.4	Abbott Alinity
	µg/ml	4.72	3.79	5.65	
Primidone	µmol/l	20.2	16.2	24.2	Gravimetric
	µg/ml	5.10	4.09	6.11	
Primidone	µmol/l	12.3	9.84	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
Progesterone	nmol/l	3.75	3.00	4.50	Abbott Architect
	ng/ml	1.17	0.939	1.40	
	nmol/l	4.21	3.37	5.05	BioMerieux Vidas
	ng/ml	1.32	1.05	1.59	
	nmol/l	2.82	1.55	4.09	Siemens Centaur XP/XPT/Classic
	ng/ml	0.883	0.486	1.28	
	nmol/l	3.83	3.06	4.60	Siemens Immulite 2000/2500
	ng/ml	1.20	0.958	1.44	
	nmol/l	3.77	3.02	4.52	Siemens Immulite 1000
	ng/ml	1.18	0.945	1.42	
	nmol/l	3.97	3.18	4.76	Beckman Dxl Prog Cal 33555
	ng/ml	1.24	0.995	1.49	
	nmol/l	4.24	3.39	5.09	Roche Elecsys (Prog. II)
	ng/ml	1.33	1.06	1.60	
	nmol/l	3.95	3.16	4.74	Beckman Access Prog Cal 33555
	ng/ml	1.24	0.989	1.49	
	nmol/l	3.01	2.41	3.61	Tosoh Series
	ng/ml	0.942	0.754	1.13	
	nmol/l	3.88	3.10	4.66	Vitros ECI
	ng/ml	1.21	0.970	1.45	
nmol/l	3.93	3.14	4.72	Roche Cobas 4000/e411 (Prog. II)	
ng/ml	1.23	0.983	1.48		
nmol/l	3.96	3.17	4.75	Roche Cobas e601/602 (Prog. II)	
ng/ml	1.24	0.992	1.49		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	2.84	2.27	3.41	Diasorin Liaison
	ng/ml	0.889	0.711	1.07	
	nmol/l	3.21	2.57	3.85	Beckman Dxl Prog DE Cal A80773
	ng/ml	1.00	0.804	1.20	
	nmol/l	3.79	3.03	4.55	Beckman Access Prog DE Cal A80773
	ng/ml	1.19	0.948	1.43	
	nmol/l	2.91	1.60	4.22	Siemens Centaur CP
	ng/ml	0.911	0.501	1.32	
	nmol/l	4.01	3.21	4.81	Roche Cobas e601/602 (Prog. III)
	ng/ml	1.26	1.00	1.52	
	nmol/l	3.75	3.00	4.50	Roche Elecsys (Prog. III)
	ng/ml	1.17	0.939	1.40	
	nmol/l	3.96	3.17	4.75	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	1.24	0.992	1.49	
	nmol/l	2.92	2.34	3.50	Diasorin Liaison XL
	ng/ml	0.914	0.732	1.10	
nmol/l	3.39	2.71	4.07	Abbott Alinity i	
ng/ml	1.06	0.848	1.27		
nmol/l	3.79	3.03	4.55	Roche Cobas e801 (Prog. III)	
ng/ml	1.19	0.948	1.43		
Prolactin	µU/ml	124	99.0	149	Abbott Architect
	µU/ml	98.8	79.0	119	BioMerieux Vidas
	µU/ml	108	75.6	140	Siemens Centaur XP/XPT/Classic
	µU/ml	102	81.6	122	Siemens Immulite 2000/2500
	µU/ml	107	85.6	128	Siemens Immulite 1000
	µU/ml	102	81.6	122	Beckman Dxl800
	µU/ml	101	80.8	121	Roche Elecsys
	µU/ml	110	88.0	132	Diasorin Liaison
	µU/ml	108	86.4	130	Beckman Access
	µU/ml	122	97.6	146	Tosoh Series
	µU/ml	135	108	162	Vitros ECi
	µU/ml	100	80.0	120	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	122	97.6	146	Immunotech IRMA
	µU/ml	103	82.4	124	Roche Cobas 4000/E411
	µU/ml	99.2	79.4	119	Roche Cobas e601/602
	µU/ml	138	110	166	Fujirebio Lumipulse G Series
	µU/ml	94.9	66.4	123	Siemens Centaur CP
	µU/ml	173	138	208	Mindray CL-2000i
	µU/ml	115	92.0	138	Diasorin Liaison XL
	µU/ml	108	86.4	130	Siemens Atellica IM
µU/ml	125	100	150	Abbott Alinity i	
µU/ml	98.5	78.8	118	Roche Cobas e801 PRL II	
PSA Free	ng/ml = µg/l	1.21	0.908	1.51	Abbott Architect
	ng/ml = µg/l	1.31	0.983	1.64	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.04	0.780	1.30	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.05	0.788	1.31	Siemens Immulite 1000

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	1.55	1.16	1.94	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.22	0.915	1.53	Roche Elecsys
	ng/ml = µg/l	0.921	0.691	1.15	Diasorin Liaison
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.11	0.833	1.39	Tosoh Series
	ng/ml = µg/l	1.20	0.900	1.50	Roche Cobas 4000/E411
	ng/ml = µg/l	1.18	0.885	1.48	Roche Cobas e601/602
	ng/ml = µg/l	1.34	1.01	1.68	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.11	0.833	1.39	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	0.910	0.683	1.14	Diasorin Liaison XL
	ng/ml = µg/l	1.33	0.998	1.66	Siemens Atellica IM
	ng/ml = µg/l	1.26	0.945	1.58	Abbott Alinity i
	ng/ml = µg/l	1.18	0.885	1.48	Roche Cobas e801
PSA Total	ng/ml = µg/l	1.13	0.848	1.41	Abbott Architect
	ng/ml = µg/l	1.74	1.31	2.18	BioMerieux Vidas
	ng/ml = µg/l	1.73	1.30	2.16	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.38	1.04	1.73	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.35	1.01	1.69	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.43	1.07	1.79	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.39	1.04	1.74	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	1.14	0.855	1.43	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.48	1.11	1.85	Roche Elecsys
	ng/ml = µg/l	0.974	0.731	1.22	Diasorin Liaison
	ng/ml = µg/l	1.42	1.07	1.78	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.44	1.08	1.80	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.12	0.840	1.40	Tosoh Series
	ng/ml = µg/l	1.39	1.04	1.74	Vitros ECi
	ng/ml = µg/l	1.72	1.29	2.15	CIS RIA Coated tube
	ng/ml = µg/l	1.49	1.12	1.86	Roche Cobas 4000/E411
	ng/ml = µg/l	1.53	1.15	1.91	Roche Cobas e601/602
	ng/ml = µg/l	1.26	0.945	1.58	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	1.40	1.05	1.75	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.26	0.945	1.58	Siemens Centaur CP
ng/ml = µg/l	0.915	0.686	1.14	Diasorin Liaison XL	
ng/ml = µg/l	1.39	1.04	1.74	Siemens Atellica IM	
ng/ml = µg/l	1.22	0.915	1.53	Abbott Alinity i	
ng/ml = µg/l	1.48	1.11	1.85	Roche Cobas e801	
Salicylic Acid	mmol/l	0.348	0.278	0.418	EMIT
	mg/dl	4.81	3.84	5.78	
	mmol/l	0.272	0.220	0.330	Roche Cobas c501/502/503
	mg/dl	3.76	3.04	4.56	
	mmol/l	0.286	0.230	0.340	Gravimetric
SHBG	mg/dl	3.95	3.18	4.70	
	nmol/l	9.57	7.66	11.5	Siemens Centaur XP/XPT/Classic
	nmol/l	10.8	8.64	13.0	Siemens Immulite 1000

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
SHBG	nmol/l	11.7	9.36	14.0	Siemens Immulite 2000/2500
	nmol/l	10.9	8.72	13.1	Abbott Architect
	nmol/l	10.7	8.56	12.8	Beckman Dxl800
	nmol/l	9.43	7.54	11.3	Siemens Atellica IM
	nmol/l	10.5	8.40	12.6	Roche analysers - 413417/15
	nmol/l	11.0	8.80	13.2	Roche Cobas e801 - 413429
	nmol/l	11.1	8.88	13.3	Abbott Alinity i
T Uptake	%U	32.5	26.7	38.4	Siemens Immulite 2000
Testosterone	nmol/l	2.65	2.12	3.18	Abbott Architect
	ng/ml	0.763	0.611	0.915	
	ng/dl	76.3	61.1	91.5	
	nmol/l	1.81	1.45	2.17	BioMerieux Vidas
	ng/ml	0.521	0.418	0.624	
	ng/dl	52.1	41.8	62.4	
	nmol/l	2.50	1.63	3.37	Siemens Centaur XP/XPT/Classic
	ng/ml	0.720	0.468	0.972	
	ng/dl	72.0	46.8	97.2	
	nmol/l	2.61	2.09	3.13	Siemens Immulite 2000/2500
	ng/ml	0.752	0.602	0.902	
	ng/dl	75.2	60.2	90.2	
	nmol/l	2.67	2.14	3.20	Beckman Dxl800
	ng/ml	0.769	0.616	0.922	
	ng/dl	76.9	61.6	92.2	
	nmol/l	2.86	2.29	3.43	Beckman Access
	ng/ml	0.824	0.660	0.988	
	ng/dl	82.4	66.0	98.8	
	nmol/l	1.90	1.52	2.28	Tosoh Series
	ng/ml	0.547	0.438	0.656	
	ng/dl	54.7	43.8	65.6	
	nmol/l	1.98	1.58	2.38	Vitros ECI
	ng/ml	0.570	0.455	0.685	
	ng/dl	57.0	45.5	68.5	
nmol/l	3.11	2.49	3.73	Roche Cobas e601/602 Test II	
ng/ml	0.896	0.717	1.08		
ng/dl	89.6	71.7	108		
nmol/l	3.06	2.45	3.67	Roche Elecsys Test II	
ng/ml	0.881	0.706	1.06		
ng/dl	88.1	70.6	106		
nmol/l	3.12	2.50	3.74	Roche Cobas 4000/e411 Test II	
ng/ml	0.899	0.720	1.08		
ng/dl	89.9	72.0	108		
nmol/l	2.64	2.11	3.17	Abbott Architect 2nd Generation	
ng/ml	0.760	0.608	0.912		
ng/dl	76.0	60.8	91.2		
nmol/l	1.80	1.44	2.16	BioMerieux Vidas Testosterone II	
ng/ml	0.518	0.415	0.621		
ng/dl	51.8	41.5	62.1		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods	
			low	high		
Testosterone	nmol/l	2.70	2.16	3.24	Mindray CL-2000i	
	ng/ml	0.778	0.622	0.934		
	ng/dl	77.8	62.2	93.4		
	nmol/l	2.56	1.66	3.46	Siemens Centaur TST II	
		ng/ml	0.737	0.479		0.995
		ng/dl	73.7	47.9		99.5
	nmol/l	2.13	1.70	2.56	Siemens Atellica IM	
		ng/ml	0.613	0.490		0.736
		ng/dl	61.3	49.0		73.6
	nmol/l	3.12	2.50	3.74	Roche Cobas e801 Test II	
		ng/ml	0.899	0.720		1.08
		ng/dl	89.9	72.0		108
nmol/l	2.71	2.17	3.25	Abbott Alinity i		
	ng/ml	0.780	0.625		0.935	
	ng/dl	78.0	62.5		93.5	
Theophylline	µmol/l	29.8	20.9	38.7	Siemens Centaur XP/XPT/Classic	
	µg/ml	5.37	3.76	6.98		
	µmol/l	30.2	24.2	36.2	Roche Integra	
		µg/ml	5.44	4.36		6.52
	µmol/l	24.8	19.8	29.8	Abbott Architect (CMIA)	
		µg/ml	4.47	3.57		5.37
	µmol/l	27.6	22.1	33.1	Roche Cobas 6000/8000	
		µg/ml	4.97	3.98		5.96
	µmol/l	27.0	21.6	32.4	Beckman AU400/600/640/2700/5400	
		µg/ml	4.87	3.89		5.85
	µmol/l	28.3	22.6	34.0	Gravimetric	
		µg/ml	5.10	4.07		6.13
Thyroglobulin	ng/ml	2.24	1.68	2.80	Roche Elecsys	
	ng/ml	1.34	1.01	1.68	Beckman DxI800	
	ng/ml	2.12	1.59	2.65	Roche Cobas 4000/E411	
	ng/ml	2.17	1.63	2.71	Roche Cobas e601/602	
	ng/ml	1.45	1.09	1.81	Beckman Access	
	ng/ml	1.74	1.31	2.18	Abbott Architect 2000i	
	ng/ml	2.20	1.65	2.75	Tosoh Series	
	ng/ml	2.14	1.61	2.68	Roche Cobas e601/602 Tg II	
	ng/ml	2.15	1.61	2.69	Roche Elecsys TGII	
	ng/ml	2.19	1.64	2.74	Roche Cobas 4000/E411 TGII	
	ng/ml	2.39	1.79	2.99	Roche Cobas e801 Tg II	
	ng/ml	1.72	1.29	2.15	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.088	0.070	0.106	Abbott Architect	
	µU/ml = mIU/l	0.061	0.049	0.073	bioMerieux VIDAS TSH	
	µU/ml = mIU/l	0.060	0.048	0.072	bioMerieux VIDAS TSH3 Ultrasensitive	
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur XP/XPT/Classic	
	µU/ml = mIU/l	0.091	0.062	0.120	Siemens Centaur XP/XPT/Classic 3rd Generation	
µU/ml = mIU/l	0.118	0.094	0.142	Siemens Immulite 1000		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.083	0.066	0.100	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	0.081	0.065	0.097	Beckman Dxl800
	µU/ml = mIU/l	0.130	0.104	0.156	Roche Elecsys
	µU/ml = mIU/l	0.145	0.116	0.174	Diasorin Liaison
	µU/ml = mIU/l	0.079	0.063	0.095	Beckman Access Fast TSH
	µU/ml = mIU/l	0.082	0.066	0.098	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.130	0.104	0.156	Tosoh Series
	µU/ml = mIU/l	0.086	0.069	0.103	Vitros Eci
	µU/ml = mIU/l	0.131	0.105	0.157	Roche Cobas 4000/E411
	µU/ml = mIU/l	0.130	0.104	0.156	Roche Cobas e601/602
	µU/ml = mIU/l	0.083	0.066	0.100	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.088	0.060	0.116	Siemens Centaur CP
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	0.121	0.097	0.145	Mindray CL-2000i
	µU/ml = mIU/l	0.081	0.065	0.097	Beckman Dxl 600/800 Access (3rd IS)
	µU/ml = mIU/l	0.138	0.110	0.166	Diasorin Liaison XL
µU/ml = mIU/l	0.092	0.074	0.110	Siemens Atellica IM	
µU/ml = mIU/l	0.088	0.070	0.106	Abbott Alinity i	
µU/ml = mIU/l	0.113	0.090	0.136	Roche Cobas 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	20.1	16.1	24.1	Abbott Architect
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	14.7	8.82	20.6	Siemens Centaur XP/XPT/Classic
	IU/ml	0.015	0.009	0.021	
	mU/ml=IU/l	37.2	29.8	44.6	Siemens Immulite 2000
	IU/ml	0.037	0.030	0.044	
	mU/ml=IU/l	30.4	24.3	36.5	Siemens Immulite 1000
	IU/ml	0.030	0.024	0.036	
	mU/ml=IU/l	32.9	26.3	39.5	Beckman Dxl800
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	18.7	15.0	22.4	Diasorin Liaison
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	20.0	16.0	24.0	Roche Cobas Core EIA
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	31.0	24.8	37.2	Beckman Access
	IU/ml	0.031	0.025	0.037	
	mU/ml=IU/l	18.1	14.5	21.7	Tosoh Series
	IU/ml	0.018	0.015	0.021	
mU/ml=IU/l	7.87	6.30	9.44	Vitros Eci	
IU/ml	0.008	0.006	0.010		
mU/ml=IU/l	3.29	2.63	3.95	Roche hCG STAT (Intact)	
IU/ml	0.003	0.003	0.003		
mU/ml=IU/l	20.2	16.2	24.2	Roche hCG+Beta	
IU/ml	0.020	0.016	0.024		

RANDOX

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	31.8	25.4	38.2	Beckman Access Total BhCG (5th IS)
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	32.8	26.2	39.4	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	13.0	7.80	18.2	Siemens Centaur CP
	IU/ml	0.013	0.008	0.018	
	mU/ml=IU/l	19.7	15.8	23.6	Diasorin Liaison XL
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	12.7	10.2	15.2	Siemens Atellica IM
	IU/ml	0.013	0.010	0.016	
	mU/ml=IU/l	20.0	16.0	24.0	Abbott Alinity i
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	20.1	16.1	24.1	Roche hCG+Beta e801
	IU/ml	0.020	0.016	0.024	
Total T3	nmol/l	1.66	1.25	2.08	Abbott Architect
	ng/ml	1.08	0.814	1.35	
	ng/dl	108	81.4	135	
	nmol/l	1.54	1.16	1.93	BioMerieux Vidas
	ng/ml	1.00	0.755	1.25	
	ng/dl	100	75.5	125	
	nmol/l	1.49	1.12	1.86	Siemens Centaur XP/XPT/Classic
	ng/ml	0.970	0.729	1.21	
	ng/dl	97.0	72.9	121	
	nmol/l	1.20	0.900	1.50	Siemens Immulite 2000/2500
	ng/ml	0.781	0.586	0.976	
	ng/dl	78.1	58.6	97.6	
	nmol/l	1.46	1.10	1.83	Siemens Immulite 1000
	ng/ml	0.950	0.716	1.18	
	ng/dl	95.0	71.6	118	
	nmol/l	1.86	1.40	2.33	Beckman Dxl800
	ng/ml	1.21	0.911	1.51	
	ng/dl	121	91.1	151	
	nmol/l	2.62	1.97	3.28	Roche Elecsys
	ng/ml	1.71	1.28	2.14	
	ng/dl	171	128	214	
	nmol/l	1.96	1.47	2.45	Beckman Access
	ng/ml	1.28	0.957	1.60	
	ng/dl	128	95.7	160	
nmol/l	1.52	1.14	1.90	Tosoh Series	
ng/ml	0.990	0.742	1.24		
ng/dl	99.0	74.2	124		
nmol/l	1.83	1.37	2.29	Vitros ECI	
ng/ml	1.19	0.892	1.49		
ng/dl	119	89.2	149		
nmol/l	0.996	0.747	1.25	CIS RIA Coated tube	
ng/ml	0.648	0.486	0.810		
ng/dl	64.8	48.6	81.0		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	2.59	1.94	3.24	Roche Cobas 4000/E411
	ng/ml	1.69	1.26	2.12	
	ng/dl	169	126	212	
	nmol/l	2.45	1.84	3.06	Roche Cobas e601/602
	ng/ml	1.59	1.20	1.98	
	ng/dl	159	120	198	
	nmol/l	1.41	1.06	1.76	Siemens Centaur CP
	ng/ml	0.918	0.690	1.15	
	ng/dl	91.8	69.0	115	
	nmol/l	1.23	0.923	1.54	Diasorin Liaison XL
	ng/ml	0.801	0.601	1.00	
	ng/dl	80.1	60.1	100	
	nmol/l	1.65	1.24	2.06	Abbott Alinity i
	ng/ml	1.07	0.807	1.33	
	ng/dl	107	80.7	133	
nmol/l	1.66	1.25	2.08	Siemens Atellica IM	
ng/ml	1.08	0.814	1.35		
ng/dl	108	81.4	135		
nmol/l	2.54	1.91	3.18	Roche Cobas e801	
ng/ml	1.65	1.24	2.06		
ng/dl	165	124	206		
Total T4	nmol/l	38.3	28.7	47.9	Abbott Architect
	µg/dl	2.99	2.24	3.74	
	ng/ml	29.9	22.4	37.4	
	nmol/l	37.7	28.3	47.1	BioMerieux Vidas
	µg/dl	2.94	2.21	3.67	
	ng/ml	29.4	22.1	36.7	
	nmol/l	28.2	19.7	36.7	Siemens Centaur XP/XPT/Classic
	µg/dl	2.20	1.54	2.86	
	ng/ml	22.0	15.4	28.6	
	nmol/l	28.3	21.2	35.4	Siemens Immulite 2000/2500
	µg/dl	2.21	1.65	2.77	
	ng/ml	22.1	16.5	27.7	
	nmol/l	31.4	23.6	39.3	Siemens Immulite 1000
	µg/dl	2.45	1.84	3.06	
	ng/ml	24.5	18.4	30.6	
	nmol/l	27.5	20.6	34.4	Beckman DxI800
	µg/dl	2.15	1.61	2.69	
	ng/ml	21.5	16.1	26.9	
nmol/l	41.2	30.9	51.5	Roche Elecsys	
µg/dl	3.21	2.41	4.01		
ng/ml	32.1	24.1	40.1		
nmol/l	29.6	22.2	37.0	Beckman Access	
µg/dl	2.31	1.73	2.89		
ng/ml	23.1	17.3	28.9		

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	28.9	21.7	36.1	Tosoh Series
	µg/dl	2.25	1.69	2.81	
	ng/ml	22.5	16.9	28.1	
	nmol/l	32.0	24.0	40.0	Vitros ECi
	µg/dl	2.50	1.87	3.13	
	ng/ml	25.0	18.7	31.3	
	nmol/l	31.0	23.3	38.8	CIS RIA Coated tube
	µg/dl	2.42	1.82	3.02	
	ng/ml	24.2	18.2	30.2	
	nmol/l	43.5	32.6	54.4	Roche Cobas 4000/E411
	µg/dl	3.39	2.54	4.24	
	ng/ml	33.9	25.4	42.4	
	nmol/l	41.3	31.0	51.6	Roche Cobas e601/602
	µg/dl	3.22	2.42	4.02	
	ng/ml	32.2	24.2	40.2	
	nmol/l	29.3	22.0	36.6	Immunotech IRMA
	µg/dl	2.29	1.72	2.86	
	ng/ml	22.9	17.2	28.6	
	nmol/l	35.2	26.4	44.0	ELISA
	µg/dl	2.75	2.06	3.44	
	ng/ml	27.5	20.6	34.4	
	nmol/l	27.6	19.3	35.9	Siemens Centaur CP
	µg/dl	2.15	1.51	2.79	
	ng/ml	21.5	15.1	27.9	
nmol/l	37.6	28.2	47.0	Diasorin Liaison XL	
µg/dl	2.93	2.20	3.66		
ng/ml	29.3	22.0	36.6		
nmol/l	36.6	27.5	45.8	Abbott Alinity i	
µg/dl	2.85	2.15	3.55		
ng/ml	28.5	21.5	35.5		
nmol/l	29.2	21.9	36.5	Siemens Atellica IM	
µg/dl	2.28	1.71	2.85		
ng/ml	22.8	17.1	28.5		
nmol/l	37.9	28.4	47.4	Roche Cobas e801	
µg/dl	2.96	2.22	3.70		
ng/ml	29.6	22.2	37.0		
Valproic Acid	µmol/l	222	178	266	Abbott Architect (CMIA)
	µg/ml	32.0	25.7	38.3	
	µmol/l	222	155	289	Siemens Centaur XP/XPT/Classic
	µg/ml	32.0	22.4	41.6	
	µmol/l	202	162	242	Siemens Dimension
	µg/ml	29.1	23.4	34.8	
	µmol/l	195	156	234	Siemens Immulite 2000/2500
	µg/ml	28.1	22.5	33.7	
	µmol/l	190	152	228	Siemens Immulite 1000
	µg/ml	27.4	21.9	32.9	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range						
Analyte	unit	Target	low	high	methods	
Valproic Acid	µmol/l	205	164	246	Roche Integra	
	µg/ml	29.6	23.7	35.5		
	µmol/l	179	143	215	Vitros	
	µg/ml	25.8	20.6	31.0		
	µmol/l	206	165	247	Roche Cobas 6000/8000	
	µg/ml	29.7	23.8	35.6		
	µmol/l	195	156	234	Beckman DxC	
	µg/ml	28.1	22.5	33.7		
	µmol/l	222	178	266	Beckman AU400/600/640/2700/5400	
	µg/ml	32.0	25.7	38.3		
	µmol/l	188	150	226	Abbott Architect (PETINA)	
	µg/ml	27.1	21.6	32.6		
	µmol/l	235	188	282	EMIT	
	µg/ml	33.9	27.1	40.7		
Vancomycin	µmol/l	213	170	256	Siemens Atellica CH	
	µg/ml	30.7	24.5	36.9		
	µmol/l	192	154	230	Abbott Alinity (PETINA)	
	µg/ml	27.7	22.2	33.2		
	µmol/l	243	194	292	Gravimetric	
	µg/ml	35.1	28.0	42.1		
	Vancomycin	µmol/l	3.77	3.02	4.52	Roche Integra
		µg/ml	5.60	4.49	6.71	
		µmol/l	3.30	2.64	3.96	Abbott Architect (CMIA)
		µg/ml	4.90	3.92	5.88	
		µmol/l	2.16	1.62	2.70	Siemens Centaur XP/XPT/Classic
		µg/ml	3.21	2.41	4.01	
		µmol/l	3.17	2.54	3.80	Siemens Dimension
		µg/ml	4.71	3.77	5.65	
µmol/l		3.18	2.54	3.82	Roche Cobas 6000/8000	
µg/ml		4.72	3.77	5.67		
µmol/l		3.07	2.46	3.68	Thermo Scientific QMS Vancomycin	
µg/ml		4.56	3.65	5.47		
µmol/l		3.28	2.62	3.94	Siemens Atellica CH	
µg/ml		4.87	3.89	5.85		
Vitamin B12	µmol/l	3.25	2.60	3.90	Abbott Alinity (PETINA)	
	µg/ml	4.83	3.86	5.80		
	µmol/l	3.43	2.74	4.12	Gravimetric	
	µg/ml	5.10	4.07	6.12		
	Vitamin B12	pmol/l	156	125	187	Abbott Architect
		pg/ml	211	169	253	
		pmol/l	147	103	191	Siemens Centaur XP/XPT/Classic
		pg/ml	199	139	259	
		pmol/l	120	96.0	144	Siemens Immulite 2000
		pg/ml	163	130	196	
	Vitamin B12	pmol/l	104	83.2	125	Beckman Dxl800
		pg/ml	141	113	169	

IMMUNOASSAY PREMIUM - LEVEL 1 (IA PREMIUM 1)

Cat. No. IA2638 / IA2633 Lot No. 2029EC Size 12 x 5 ml / 4 x 5 ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	185	148	222	Roche Elecsys
	pg/ml	251	201	301	
	pmol/l	110	88.0	132	Beckman Access
	pg/ml	149	119	179	
	pmol/l	156	125	187	Tosoh Series
	pg/ml	211	169	253	
	pmol/l	155	124	186	Vitros ECI
	pg/ml	210	168	252	
	pmol/l	190	152	228	Roche Cobas 4000/e411 Gen II
	pg/ml	257	206	308	
	pmol/l	169	135	203	Roche Cobas e601/602 Gen II
	pg/ml	229	183	275	
	pmol/l	172	138	206	Siemens Atellica IM
	pg/ml	233	187	279	
	pmol/l	229	183	275	Abbott Alinity i
	pg/ml	310	248	372	
pmol/l	155	124	186	Roche Cobas e801 Gen II	
pg/ml	210	168	252		