RANDOX

PRODUCT INFORMATION

IA3109/IA3112

2719EC

Please note that the level of ACTH in Immunoassay Premium Plus Control Level 1, lot 2719EC is low and should be assessed for suitability for the measuring range of your method.

For any queries please contact technical.services@randox.com

CCS INC2529

FORM NO. 8373-GP
REVISION (2)
2 Aug 2019

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

CAT. NO. IA3109 **GTIN:** 05055273207255 **SIZE:** 12 x 5 ml
LOT NO. 2719EC **EXPIRY:** 2029-05-28

INTENDED USE

The Immunoassay Premium Plus Control is intended for use with *in vitro* diagnostic assays for the quantitative determination of 17-OH-Progesterone, 25-OH Vitamin D, ACTH, Aldosterone, Alpha-fetoprotein, Amikacin, Androstenedione, Beta-2-microglobulin, C-Peptide, CA 15-3, CA 19-9, CA125, Carbamazepine, Carcinoembryonic Antigen, Cortisol, DHEA-S, Digoxin, Estriol, Ethosuximide, Ferritin, Folate, Free T3, Free T4, FSH, Gentamicin, Growth Hormone, Immunoglobulin E, Insulin, Luteinising Hormone, Oestradiol, Paracetamol, Phenobarbital, Phenytoin, Primidone, Progesterone, Prolactin, PSA Free, PSA Total, Salicylic Acid, SHBG, T Uptake, Testosterone, Theophylline, Thyroglobulin, Thyroid Stimulating Hormone, Tobramycin, Total Beta hCG, Total T3, Total T4, Valproic Acid, Vancomycin and Vitamin B12. The device is assayed with target values and is suitable for use on both Clinical Chemistry and Immunoassay analysers.

Immunoassay Premium Plus Control is for use by trained laboratory professionals and can be used in determining the precision of testing systems and in identifying sources of variation.

DEVICE DESCRIPTION

Immunoassay Premium Plus control is supplied at three levels – Level 1, 2 and 3. Immunoassay Premium Plus Level 1 is composed of human serum with added stabilisers and preservatives. This product is supplied lyophilised.

SAFETY PRECAUTIONS AND WARNINGS

For *in vitro* diagnostic use only. For use only by trained personnel. Do not pipette by mouth. Wear PPE when handling this product. Any spillages must be treated immediately with a suitable disinfectant such as 1% Virkon solution. Exercise aerosol-minimizing techniques. Dispose of any discarded materials in accordance with the requirements of your local waste management authorities.

Other hazards:



Biohazard

Biological source material. Treat as potentially infectious.
The product contains material of human origin. This material has been tested for the HIV (Human Immunodeficiency Virus) Antibody, HBs Ag and HCV and found to be non-reactive. However as 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 disease and disposed of accordingly.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Safety Data Sheets are available on request.

If there is damage to the material upon arrival, the appearance is not as expected or the material is not performing as it should please contact Randox Laboratories Technical Services, Northern Ireland, telephone +44 (0) 28 9445 1070 or email technical.services@randox.com.

STORAGE AND STABILITY

OPENED: 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.

PREPARATION FOR USE
Immunoassay Premium Plus is supplied lyophilised.

1. Carefully reconstitute each vial of lyophilised serum with exactly 5 ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.
2. Refer to the Control section of the individual analyser application.
3. Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED
Immunoassay Premium Plus - Level 1: 12 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED
Volumetric pipette
Distilled water

LIMITATIONS
1. This product is provided for quality assurance only and should not be used for calibration purposes.
2. This product should not be used beyond the expiration date.
3. This product should not be used in evidence of microbial contamination or high turbidity.
4. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide,
5. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

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.

Due to the variation caused by test equipment, test reagents and laboratory technique, the quoted ranges are provided for guidance. It is recommended that these ranges are used until each laboratory has established its own ranges, based on individual laboratory requirements.

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

TECHNICAL ASSISTANCE
According to EU regulation 2017/746, any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the EU Member State in which the user and/or patient is established.
Contact Randox Laboratories Technical Services, Northern Ireland, telephone +44 (0) 28 9445 1070 or email technical.services@randox.com.

SUMMARY OF SAFETY AND PERFORMANCE
The summary of safety and performance for this *in vitro* diagnostic medical device is available to the public in the European database on medical devices (EUDAMED) when this database is available and the information has been uploaded by the Notified Body. The web address of the EUDAMED public website is: https://ec.europa.eu/tools/eudamed. The summary of safety and performance is also available on request. Contact Randox Laboratories Technical Services, Northern Ireland, telephone +44 (0) 28 9445 1070 or email technical.services@randox.com.

SYMBOL GLOSSARY

Randox Laboratories uses the following symbols, which may appear on the product labelling.

Symbol	Description
REF	Catalogue number
LOT	Batch code
CONTROL	Control
	Use-by date
	Manufacturer
EC REP	Authorized representative in the European Community
randox.com	Consult IFU
IVD	*In vitro* diagnostic medical device
CE	CE Marking
CE XXXX	CE Marking with Notified Body
RxOnly	Prescription device (US only)
	Temperature limit
	Do not re-use
YY/MM/DD	Date format (year/month/day)
UK CA	UK CA mark
	Keep away from sunlight
	Biological risks
	This way up
	Caution
	Do not use if package is damaged and consult instructions for use

24 Jun '26 fc

Table of Content

Method 2

Randox Laboratories Ltd., 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom
Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

RANDOX

Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
17-OH-Progesterone	ng/ml	0.144	0.108	0.180	0.018	0.036	Immunotech RIA
	nmol/l	0.434	0.326	0.542	0.054	0.108	
	ng/ml	0.104	0.078	0.130	0.013	0.026	Shenzhen YHLO iFlash Series
	nmol/l	0.315	0.236	0.394	0.040	0.079	
25-OH-Vitamin D	ng/ml	18.4	13.8	23.0	2.30	4.60	Abbott Alinity i
	nmol/l	45.9	34.4	57.4	5.75	11.5	
	ng/ml	18.3	13.7	22.9	2.30	4.60	Abbott Architect (3L52)
	nmol/l	45.8	34.4	57.2	5.70	11.4	
	ng/ml	18.4	13.8	23.0	2.30	4.60	Abbott Architect (5P02)
	nmol/l	45.9	34.4	57.4	5.75	11.5	
	ng/ml	17.0	12.8	21.2	2.10	4.20	Agappe Mispa i3
	nmol/l	42.4	31.8	53.0	5.30	10.6	
	ng/ml	31.1	23.3	38.9	3.90	7.80	Beckman Access 25 OH Vitamin D Total
	nmol/l	77.6	58.2	97.0	9.70	19.4	
	ng/ml	31.8	23.9	39.7	3.95	7.90	Beckman DxI 600/800
	nmol/l	79.4	59.6	99.2	9.90	19.8	
	ng/ml	30.5	22.9	38.1	3.80	7.60	Beckman DxI 9000
	nmol/l	76.2	57.2	95.2	9.50	19.0	
	ng/ml	19.8	14.9	24.7	2.45	4.90	BioMerieux VIDAS
	nmol/l	49.3	37.0	61.6	6.15	12.3	
	ng/ml	37.0	27.8	46.2	4.60	9.20	DiaSorin Liaison
	nmol/l	92.4	69.3	116	11.8	23.6	
	ng/ml	34.7	26.0	43.4	4.35	8.70	DiaSorin Liaison XL
	nmol/l	86.7	65.0	108	10.7	21.3	
	ng/ml	9.38	7.04	11.7	1.16	2.32	DIRUI CM Series
	nmol/l	23.4	17.6	29.2	2.90	5.80	
	ng/ml	20.8	15.6	26.0	2.60	5.20	Lifotronic eCL
	nmol/l	51.9	38.9	64.9	6.50	13.0	
	ng/ml	34.9	26.2	43.6	4.35	8.70	Maccura I Series
	nmol/l	87.2	65.4	109	10.9	21.8	
	ng/ml	21.5	16.1	26.9	2.70	5.40	Mindray VD CL (Excl. CL 900 Series)
	nmol/l	53.7	40.3	67.1	6.70	13.4	
	ng/ml	23.2	17.4	29.0	2.90	5.80	Mindray VD CL 900 Series
	nmol/l	57.9	43.4	72.4	7.25	14.5	
	ng/ml	19.0	14.3	23.7	2.35	4.70	Mindray VD II CL (Excl. 900 Series)
	nmol/l	47.3	35.5	59.1	5.90	11.8	
	ng/ml	19.1	14.3	23.9	2.40	4.80	Mindray VD II CL 900 Series
	nmol/l	47.6	35.7	59.5	5.95	11.9	

Randox Laboratories Ltd., 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom
Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

All enzyme values are quoted to a temperature of 37°C, unless otherwise stated

RANDOX

Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
25-OH-Vitamin D	ng/ml	70.5	52.9	88.1	8.80	17.6	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	176	132	220	22.0	44.0	
	ng/ml	12.4	9.30	15.5	1.55	3.10	Roche Vitamin D Total II e402/e801
	nmol/l	31.0	23.3	38.7	3.85	7.70	
	ng/ml	12.7	9.53	15.9	1.60	3.20	Roche Vitamin D Total III e402/e801
	nmol/l	31.8	23.9	39.7	3.95	7.90	
	ng/ml	29.4	22.1	36.7	3.65	7.30	Shenzhen YHLO iFlash Series
	nmol/l	73.5	55.1	91.9	9.20	18.4	
	ng/ml	16.4	12.3	20.5	2.05	4.10	Siemens Atellica IM
	nmol/l	41.0	30.8	51.2	5.10	10.2	
	ng/ml	14.7	11.0	18.4	1.85	3.70	TOSOH AIA Series
	nmol/l	36.7	27.5	45.9	4.60	9.20	
	ng/ml	18.5	13.9	23.1	2.30	4.60	Tosoh AIA-CL Series
	nmol/l	46.1	34.6	57.6	5.75	11.5	
ACTH	pg/ml	1.99	1.49	2.49	0.250	0.500	Mindray CL 900 Series
	pmol/l	0.438	0.329	0.547	0.055	0.109	
	pg/ml	4.04	3.03	5.05	0.505	1.01	Shenzhen YHLO iFlash Series
	pmol/l	0.889	0.667	1.11	0.111	0.221	
	pg/ml	5.50	4.13	6.87	0.685	1.37	Siemens Immulite 2000/2500
	pmol/l	1.21	0.908	1.51	0.150	0.300	
Alpha-fetoprotein	ng/ml	8.81	7.05	10.6	0.895	1.79	Abbott Alinity i
	KIU/l = IU/ml	7.28	5.82	8.74	0.730	1.46	
	ng/ml	8.58	6.86	10.3	0.860	1.72	Abbott Architect
	KIU/l = IU/ml	7.09	5.67	8.51	0.710	1.42	
	ng/ml	8.46	6.77	10.2	0.870	1.74	Agappe Mispa i200/i180
	KIU/l = IU/ml	6.99	5.59	8.39	0.700	1.40	
	ng/ml	9.44	7.55	11.3	0.930	1.86	Beckman Access
	KIU/l = IU/ml	7.80	6.24	9.36	0.780	1.56	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Alpha-fetoprotein	ng/ml	9.40	7.52	11.3	0.950	1.90	Beckman DxI 600/800
	KIU/l = IU/ml	7.77	6.22	9.32	0.775	1.55	
	ng/ml	9.87	7.90	11.8	0.965	1.93	Beckman DXI9000
	KIU/l = IU/ml	8.16	6.53	9.79	0.815	1.63	
	ng/ml	6.44	5.15	7.73	0.645	1.29	bioMerieux VIDAS/MINI VIDAS
	KIU/l = IU/ml	5.32	4.26	6.38	0.530	1.06	
	ng/ml	10.7	8.56	12.8	1.05	2.10	DiaSorin Liaison XL
	KIU/l = IU/ml	8.88	7.10	10.7	0.910	1.82	
	ng/ml	9.93	7.94	11.9	0.985	1.97	Fujirebio Lumipulse G Series
	KIU/l = IU/ml	8.21	6.57	9.85	0.820	1.64	
	ng/ml	10.6	8.48	12.7	1.05	2.10	Immunotech IRMA
	KIU/l = IU/ml	8.76	7.01	10.5	0.870	1.74	
	ng/ml	10.3	8.24	12.4	1.05	2.10	Lifotronic eCL
	KIU/l = IU/ml	8.54	6.83	10.3	0.880	1.76	
	ng/ml	8.56	6.85	10.3	0.870	1.74	Mindray CL 900 Series
	KIU/l = IU/ml	7.07	5.66	8.48	0.705	1.41	
	ng/ml	8.13	6.50	9.76	0.815	1.63	Mindray CL series (Excl. CL 900 series)
	KIU/l = IU/ml	6.72	5.38	8.06	0.670	1.34	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Alpha-fetoprotein	ng/ml	10.5	8.40	12.6	1.05	2.10	Ortho Vitros 3600/5600/ECi/ XT 7600
	KIU/l = IU/ml	8.64	6.91	10.4	0.880	1.76	
	ng/ml	9.02	7.22	10.8	0.890	1.78	Roche Cobas 4000/e411
	KIU/l = IU/ml	7.45	5.96	8.94	0.745	1.49	
	ng/ml	10.0	8.00	12.0	1.00	2.00	Roche Cobas e402/e801
	KIU/l = IU/ml	8.30	6.64	9.96	0.830	1.66	
	ng/ml	9.29	7.43	11.2	0.955	1.91	Roche Cobas e601/ 602
	KIU/l = IU/ml	7.68	6.14	9.22	0.770	1.54	
	ng/ml	8.95	7.16	10.7	0.875	1.75	Roche Elecsys
	KIU/l = IU/ml	7.40	5.92	8.88	0.740	1.48	
	ng/ml	8.20	6.56	9.84	0.820	1.64	Shenzhen YHLO iFlash Series
	KIU/l = IU/ml	6.78	5.42	8.14	0.680	1.36	
	ng/ml	10.7	8.56	12.8	1.05	2.10	Siemens Atellica IM
	KIU/l = IU/ml	8.85	7.08	10.6	0.875	1.75	
	ng/ml	10.0	8.00	12.0	1.00	2.00	Siemens Centaur
	KIU/l = IU/ml	8.29	6.63	9.95	0.830	1.66	
	ng/ml	8.18	6.54	9.82	0.820	1.64	Siemens Immulite 2000/2500
	KIU/l = IU/ml	6.76	5.41	8.11	0.675	1.35	

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Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Alpha-fetoprotein	ng/ml	10.6	8.48	12.7	1.05	2.10	Sysmex HISCL Series
	KIU/l = IU/ml	8.73	6.98	10.5	0.885	1.77	
	ng/ml	9.46	7.57	11.4	0.970	1.94	TOSOH AIA Series
	KIU/l = IU/ml	7.82	6.26	9.38	0.780	1.56	
	ng/ml	8.45	6.76	10.1	0.825	1.65	Tosoh AIA-CL Series
	KIU/l = IU/ml	6.98	5.58	8.38	0.700	1.40	
Androstenedione	ng/ml	0.689	0.517	0.861	0.086	0.172	Beckman Coulter Active RIA
	nmol/l	2.40	1.80	3.00	0.300	0.600	
	ng/ml	1.15	0.863	1.44	0.145	0.290	DiaSorin Liaison XL
	nmol/l	4.01	3.01	5.01	0.500	1.00	
	ng/ml	1.12	0.840	1.40	0.140	0.280	Roche Elecsys
	nmol/l	3.89	2.92	4.86	0.485	0.970	
	ng/ml	1.03	0.773	1.29	0.130	0.260	Siemens Atellica IM
	nmol/l	3.59	2.69	4.49	0.450	0.900	
Beta-2-Microglobulin	µg/ml = mg/l	1.44	1.15	1.73	0.145	0.290	Abbott Alinity
	µg/ml = mg/l	1.44	1.15	1.73	0.145	0.290	Abbott Architect
	µg/ml = mg/l	1.25	1.00	1.50	0.125	0.250	Beckman AU Instruments
	µg/ml = mg/l	1.59	1.27	1.91	0.160	0.320	Binding Site Optilite
	µg/ml = mg/l	1.54	1.23	1.85	0.155	0.310	BioMerieux VIDAS
	µg/ml = mg/l	1.08	0.864	1.30	0.110	0.220	DiaSorin Liaison XL
	µg/ml = mg/l	1.53	1.22	1.84	0.155	0.310	Roche Cobas 4000/c311
	µg/ml = mg/l	1.62	1.30	1.94	0.160	0.320	Roche Cobas 6000/8000
	µg/ml = mg/l	1.62	1.30	1.94	0.160	0.320	Roche Elecsys

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Beta-2-Microglobulin	µg/ml = mg/l	1.66	1.33	1.99	0.165	0.330	Roche Tinaquant
	µg/ml = mg/l	1.33	1.06	1.60	0.135	0.270	Siemens Atellica CH
	µg/ml = mg/l	1.38	1.10	1.66	0.140	0.280	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.31	1.05	1.57	0.130	0.260	Siemens/Behring Nephelometer
	µg/ml = mg/l	1.32	1.06	1.58	0.130	0.260	Tosoh AIA-CL Series
CA 125	U/ml	28.6	22.9	34.3	2.85	5.70	Abbott Alinity
	U/ml	28.0	22.4	33.6	2.80	5.60	Abbott Architect
	U/ml	12.5	10.0	15.0	1.25	2.50	Agappe Mispa i200/i180
	U/ml	16.1	12.9	19.3	1.60	3.20	Beckman Access
	U/ml	15.8	12.6	19.0	1.60	3.20	Beckman DxI 600/800
	U/ml	14.8	11.8	17.8	1.50	3.00	Beckman DxI 9000
	U/ml	20.8	16.6	25.0	2.10	4.20	BioMerieux VIDAS
	U/ml	26.1	20.9	31.3	2.60	5.20	DiaSorin Liaison XL
	U/ml	35.8	28.6	43.0	3.60	7.20	DIRUI CM Series
	U/ml	21.0	16.8	25.2	2.10	4.20	Fujirebio Lumipulse G Series
	U/ml	9.46	7.57	11.4	0.970	1.94	Immunotech IRMA
	U/ml	20.3	16.2	24.4	2.05	4.10	Lifotronic eCL
	U/ml	12.7	10.2	15.2	1.25	2.50	Maccura I Series
	U/ml	11.4	9.12	13.7	1.15	2.30	Mindray CL (Excl. CL 900) >= lot 250501
	U/ml	11.9	9.52	14.3	1.20	2.40	Mindray CL 900 Series <= lot 241101
	U/ml	10.9	8.72	13.1	1.10	2.20	Mindray CL 900 Series >= lot 250501
	U/ml	17.1	13.7	20.5	1.70	3.40	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	18.9	15.1	22.7	1.90	3.80	Roche Cobas 4000/e411
	U/ml	18.9	15.1	22.7	1.90	3.80	Roche Cobas e402/e801
	U/ml	19.0	15.2	22.8	1.90	3.80	Roche Cobas e601/ 602
	U/ml	19.1	15.3	22.9	1.90	3.80	Roche Elecsys
	U/ml	27.6	22.1	33.1	2.75	5.50	Shenzhen YHLO iFlash Series
	U/ml	21.5	17.2	25.8	2.15	4.30	Siemens Atellica IM
	U/ml	19.7	15.8	23.6	1.95	3.90	Siemens Centaur CA125 II Kit
	U/ml	18.1	14.5	21.7	1.80	3.60	Siemens Centaur OV Kit
	U/ml	15.1	12.1	18.1	1.50	3.00	Siemens Immulite 2000/2500
	U/ml	37.4	29.9	44.9	3.75	7.50	TOSOH AIA Series
	U/ml	32.4	25.9	38.9	3.25	6.50	Tosoh AIA-CL Series
CA 15-3	U/ml	22.7	18.2	27.2	2.25	4.50	Abbott Alinity i

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Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CA 15-3	U/ml	22.6	18.1	27.1	2.25	4.50	Abbott Architect
	U/ml	8.88	7.10	10.7	0.910	1.82	Beckman Access
	U/ml	8.97	7.18	10.8	0.915	1.83	Beckman DxI 600/800
	U/ml	8.64	6.91	10.4	0.880	1.76	Beckman DXI9000
	U/ml	20.2	16.2	24.2	2.00	4.00	BioMerieux VIDAS
	U/ml	22.3	17.8	26.8	2.25	4.50	DiaSorin Liaison XL
	U/ml	21.3	17.0	25.6	2.15	4.30	DIRUI CM Series
	U/ml	21.9	17.5	26.3	2.20	4.40	Fujirebio Lumipulse G Series
	U/ml	22.7	18.2	27.2	2.25	4.50	Immunotech IRMA
	U/ml	24.5	19.6	29.4	2.45	4.90	Lifotronic eCL
	U/ml	15.0	12.0	18.0	1.50	3.00	Maccura I Series
	U/ml	11.9	9.52	14.3	1.20	2.40	Mindray CL 900 Series
	U/ml	11.5	9.20	13.8	1.15	2.30	Mindray CL series (Excl. CL 900 series)
	U/ml	15.8	12.6	19.0	1.60	3.20	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	21.6	17.3	25.9	2.15	4.30	Roche Cobas 4000/e411
	U/ml	21.6	17.3	25.9	2.15	4.30	Roche Cobas e402/e801
	U/ml	21.8	17.4	26.2	2.20	4.40	Roche Cobas e601/ 602
	U/ml	21.6	17.3	25.9	2.15	4.30	Roche Elecsys
	U/ml	23.1	18.5	27.7	2.30	4.60	Shenzhen YHLO iFlash Series
	U/ml	20.4	16.3	24.5	2.05	4.10	Siemens Atellica IM
	U/ml	19.4	15.5	23.3	1.95	3.90	Siemens Centaur
	U/ml	20.4	16.3	24.5	2.05	4.10	Siemens Immulite 2000/2500
	U/ml	23.6	18.9	28.3	2.35	4.70	TOSOH AIA Series
	U/ml	19.8	15.8	23.8	2.00	4.00	Tosoh AIA-CL Series
CA 19-9	U/ml	48.1	38.5	57.7	4.80	9.60	Abbott Alinity XR
	U/ml	48.8	39.0	58.6	4.90	9.80	Abbott Architect XR
	U/ml	13.7	11.0	16.4	1.35	2.70	Agappe Mispa i200/i180
	U/ml	23.0	18.4	27.6	2.30	4.60	Beckman Access
	U/ml	21.6	17.3	25.9	2.15	4.30	Beckman DxI 600/800
	U/ml	22.4	17.9	26.9	2.25	4.50	Beckman DxI 9000
	U/ml	28.7	23.0	34.4	2.85	5.70	BioMerieux VIDAS
	U/ml	31.7	25.4	38.0	3.15	6.30	Fujirebio Lumipulse G Series
	U/ml	24.8	19.8	29.8	2.50	5.00	Immunotech IRMA
	U/ml	32.1	25.7	38.5	3.20	6.40	Izotop RIA
	U/ml	24.3	19.4	29.2	2.45	4.90	Lifotronic eCL
	U/ml	13.8	11.0	16.6	1.40	2.80	Mindray CL 900 Series
	U/ml	13.9	11.1	16.7	1.40	2.80	Mindray CL series (Excl. CL 900 series)
	U/ml	32.5	26.0	39.0	3.25	6.50	Ortho Vitros 3600/5600/ECi/XT 7600
	U/ml	18.4	14.7	22.1	1.85	3.70	Roche Cobas 4000/e411

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CA 19-9	U/ml	19.5	15.6	23.4	1.95	3.90	Roche Cobas e402/e801
	U/ml	18.5	14.8	22.2	1.85	3.70	Roche Cobas e601/ 602
	U/ml	18.9	15.1	22.7	1.90	3.80	Roche Elecsys
	U/ml	15.9	12.7	19.1	1.60	3.20	Shenzhen YHLO iFlash Series
	U/ml	35.8	28.6	43.0	3.60	7.20	Siemens Atellica IM
	U/ml	31.6	25.3	37.9	3.15	6.30	Siemens Centaur
	U/ml	19.4	15.5	23.3	1.95	3.90	Siemens Immulite 2000/2500
	U/ml	31.3	25.0	37.6	3.15	6.30	Sysmex HISCL Series
	U/ml	23.1	18.5	27.7	2.30	4.60	TOSOH AIA Series
	U/ml	19.7	15.8	23.6	1.95	3.90	Tosoh AIA-CL Series
Carbamazepine	µg/ml	2.81	2.25	3.37	0.280	0.560	Abbott Alinity (CMIA)
	µmol/l	11.9	9.52	14.3	1.20	2.40	
	µg/ml	2.86	2.29	3.43	0.285	0.570	Abbott Alinity (PETINA)
	µmol/l	12.1	9.68	14.5	1.20	2.40	
	µg/ml	3.40	2.72	4.08	0.340	0.680	Abbott Architect (CMIA)
	µmol/l	14.4	11.5	17.3	1.45	2.90	
	µg/ml	2.86	2.29	3.43	0.285	0.570	Abbott Architect (PETINIA)
	µmol/l	12.1	9.68	14.5	1.20	2.40	
	µg/ml	3.19	2.55	3.83	0.320	0.640	Beckman AU Instruments
	µmol/l	13.5	10.8	16.2	1.35	2.70	
	µg/ml	3.48	2.78	4.18	0.350	0.700	EMIT
	µmol/l	14.7	11.8	17.6	1.45	2.90	
	µg/ml	3.19	2.55	3.83	0.320	0.640	Roche Cobas 4000/c311
	µmol/l	13.5	10.8	16.2	1.35	2.70	
	µg/ml	3.26	2.61	3.91	0.325	0.650	Roche Cobas 6000/8000
	µmol/l	13.8	11.0	16.6	1.40	2.80	
	µg/ml	3.29	2.63	3.95	0.330	0.660	Roche cobas c303/503
	µmol/l	13.9	11.1	16.7	1.40	2.80	
	µg/ml	3.24	2.59	3.89	0.325	0.650	Siemens Atellica CH
	µmol/l	13.7	11.0	16.4	1.35	2.70	
	µg/ml	2.81	2.25	3.37	0.280	0.560	Siemens Immulite 2000/2500
	µmol/l	11.9	9.52	14.3	1.20	2.40	
CEA	ng/ml = µg/l	3.75	3.00	4.50	0.375	0.750	Abbott Alinity i
	ng/ml = µg/l	3.77	3.02	4.52	0.375	0.750	Abbott Architect
	ng/ml = µg/l	3.21	2.57	3.85	0.320	0.640	Beckman Access

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CEA	ng/ml = µg/l	3.21	2.57	3.85	0.320	0.640	Beckman DxI 600/800
	ng/ml = µg/l	3.17	2.54	3.80	0.315	0.630	Beckman DxI 9000
	ng/ml = µg/l	2.93	2.34	3.52	0.295	0.590	BioMerieux VIDAS
	ng/ml = µg/l	3.45	2.76	4.14	0.345	0.690	DiaSorin Liaison XL
	ng/ml = µg/l	4.29	3.43	5.15	0.430	0.860	DIRUI CM Series
	ng/ml = µg/l	4.74	3.79	5.69	0.475	0.950	Fujirebio Lumipulse G Series
	ng/ml = µg/l	3.39	2.71	4.07	0.340	0.680	Immunotech IRMA
	ng/ml = µg/l	2.85	2.28	3.42	0.285	0.570	Lifotronic eCL
	ng/ml = µg/l	4.41	3.53	5.29	0.440	0.880	Maccura I Series
	ng/ml = µg/l	2.94	2.35	3.53	0.295	0.590	Mindray CL 900 Series
	ng/ml = µg/l	2.88	2.30	3.46	0.290	0.580	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	3.56	2.85	4.27	0.355	0.710	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml = µg/l	3.43	2.74	4.12	0.345	0.690	Roche Cobas 4000/e411
	ng/ml = µg/l	3.27	2.62	3.92	0.325	0.650	Roche Cobas e402/e801
	ng/ml = µg/l	3.28	2.62	3.94	0.330	0.660	Roche Cobas e601/ 602
	ng/ml = µg/l	3.41	2.73	4.09	0.340	0.680	Roche Elecsys
	ng/ml = µg/l	3.46	2.77	4.15	0.345	0.690	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	3.87	3.10	4.64	0.385	0.770	Siemens Atellica IM
	ng/ml = µg/l	3.81	3.05	4.57	0.380	0.760	Siemens Centaur

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
CEA	ng/ml = µg/l	3.87	3.10	4.64	0.385	0.770	Siemens Immulite 2000/2500
	ng/ml = µg/l	3.21	2.57	3.85	0.320	0.640	Sysmex HISCL Series
	ng/ml = µg/l	4.87	3.90	5.84	0.485	0.970	TOSOH AIA Series
	ng/ml = µg/l	5.00	4.00	6.00	0.500	1.00	Tosoh AIA-CL Series
Cortisol	nmol/l	181	136	226	22.5	45.0	Abbott Alinity i
	µg/dl	6.52	4.89	8.15	0.815	1.63	
	nmol/l	182	137	227	22.5	45.0	Abbott Architect
	µg/dl	6.55	4.91	8.19	0.820	1.64	
	nmol/l	187	140	234	23.5	47.0	Beckman Access
	µg/dl	6.73	5.05	8.41	0.840	1.68	
	nmol/l	179	134	224	22.5	45.0	Beckman DxI 600/800
	µg/dl	6.44	4.83	8.05	0.805	1.61	
	nmol/l	177	133	221	22.0	44.0	Beckman DXI9000
	µg/dl	6.37	4.78	7.96	0.795	1.59	
	nmol/l	117	87.8	146	14.5	29.0	BioMerieux VIDAS
	µg/dl	4.21	3.16	5.26	0.525	1.05	
	nmol/l	319	239	399	40.0	80.0	DiaSorin Liaison XL
	µg/dl	11.5	8.63	14.4	1.45	2.90	
	nmol/l	170	128	212	21.0	42.0	DIRUI CM Series
	µg/dl	6.12	4.59	7.65	0.765	1.53	
	nmol/l	304	228	380	38.0	76.0	Immunotech RIA
	µg/dl	10.9	8.18	13.6	1.35	2.70	
	nmol/l	184	138	230	23.0	46.0	Mindray CL 900 Series
	µg/dl	6.62	4.97	8.27	0.825	1.65	
	nmol/l	181	136	226	22.5	45.0	Mindray CL series (Excl. CL 900 series)
	µg/dl	6.52	4.89	8.15	0.815	1.63	
	nmol/l	128	96.0	160	16.0	32.0	Ortho Vitros 3600/5600/ECi/XT 7600
	µg/dl	4.61	3.46	5.76	0.575	1.15	
	nmol/l	174	131	217	21.5	43.0	Roche Cobas 4000/e411
	µg/dl	6.26	4.70	7.82	0.780	1.56	
	nmol/l	171	128	214	21.5	43.0	Roche Cobas 4000/e411 Gen II
	µg/dl	6.16	4.62	7.70	0.770	1.54	
	nmol/l	163	122	204	20.5	41.0	Roche Cobas e402/e801
	µg/dl	5.87	4.40	7.34	0.735	1.47	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Cortisol	nmol/l	163	122	204	20.5	41.0	Roche Cobas e402/e801 Gen II
	µg/dl	5.87	4.40	7.34	0.735	1.47	
	nmol/l	169	127	211	21.0	42.0	Roche Cobas e601/ 602
	µg/dl	6.08	4.56	7.60	0.760	1.52	
	nmol/l	166	125	207	20.5	41.0	Roche Cobas e601/ 602 Gen II
	µg/dl	5.98	4.49	7.47	0.745	1.49	
	nmol/l	168	126	210	21.0	42.0	Roche Elecsys
	µg/dl	6.05	4.54	7.56	0.755	1.51	
	nmol/l	159	119	199	20.0	40.0	Siemens Atellica IM
	µg/dl	5.72	4.29	7.15	0.715	1.43	
	nmol/l	146	110	182	18.0	36.0	Siemens Atellica IM (rgt<19367&cal<CE72)
	µg/dl	5.26	3.95	6.57	0.655	1.31	
	nmol/l	154	116	192	19.0	38.0	Siemens Centaur
	µg/dl	5.54	4.16	6.92	0.690	1.38	
	nmol/l	165	124	206	20.5	41.0	Siemens Immulite 2000/2500
	µg/dl	5.94	4.46	7.42	0.740	1.48	
	nmol/l	174	131	217	21.5	43.0	Siemens Immulite1000/2000/XPi Veterinary
	µg/dl	6.26	4.70	7.82	0.780	1.56	
	nmol/l	178	134	222	22.0	44.0	TOSOH AIA Series
	µg/dl	6.41	4.81	8.01	0.800	1.60	
	nmol/l	173	130	216	21.5	43.0	Tosoh AIA-CL Series
	µg/dl	6.23	4.67	7.79	0.780	1.56	
DHEA-S	µmol/l	1.68	1.34	2.02	0.170	0.340	Abbott Alinity i
	µmol/l	1.67	1.34	2.00	0.165	0.330	Abbott Architect
	µmol/l	1.57	1.26	1.88	0.155	0.310	Beckman Access
	µmol/l	1.56	1.25	1.87	0.155	0.310	Beckman DxI 600/800
	µmol/l	1.53	1.22	1.84	0.155	0.310	Beckman DXI9000
	µmol/l	1.35	1.08	1.62	0.135	0.270	DiaSorin Liaison XL
	µmol/l	1.44	1.15	1.73	0.145	0.290	Mindray CL 900 Series
	µmol/l	1.42	1.14	1.70	0.140	0.280	Mindray CL series (Excl. CL 900 series)
	µmol/l	1.89	1.51	2.27	0.190	0.380	Roche Cobas 4000/e411
	µmol/l	1.85	1.48	2.22	0.185	0.370	Roche Cobas e402/e801
	µmol/l	1.92	1.54	2.30	0.190	0.380	Roche Cobas e601/ 602
	µmol/l	1.53	1.22	1.84	0.155	0.310	Shenzhen YHLO iFlash Series
	µmol/l	1.33	1.06	1.60	0.135	0.270	Siemens Atellica IM
	µmol/l	1.54	1.23	1.85	0.155	0.310	Siemens Centaur
	µmol/l	1.22	0.976	1.46	0.120	0.240	Siemens Immulite 2000/2500
	µmol/l	1.67	1.34	2.00	0.165	0.330	TOSOH AIA Series
	µmol/l	1.87	1.50	2.24	0.185	0.370	Tosoh AIA-CL Series

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Digoxin	ng/ml	0.565	0.452	0.678	0.057	0.113	Abbott Alinity (CMIA)
	nmol/l	0.724	0.579	0.869	0.073	0.145	
	ng/ml	0.549	0.439	0.659	0.055	0.110	Abbott Alinity (PETINA)
	nmol/l	0.703	0.562	0.844	0.071	0.141	
	ng/ml	0.366	0.293	0.439	0.037	0.073	Abbott Architect (CMIA)
	nmol/l	0.468	0.374	0.562	0.047	0.094	
	ng/ml	0.486	0.389	0.583	0.049	0.097	Abbott Architect (PETINIA)
	nmol/l	0.622	0.498	0.746	0.062	0.124	
	ng/ml	0.597	0.478	0.716	0.060	0.119	Beckman AU Instruments
	nmol/l	0.764	0.611	0.917	0.077	0.153	
	ng/ml	0.540	0.432	0.648	0.054	0.108	Beckman DxI 600/800
	nmol/l	0.692	0.554	0.830	0.069	0.138	
	ng/ml	0.617	0.494	0.740	0.062	0.123	Roche Cobas C303/501/502/503/701
	nmol/l	0.790	0.632	0.948	0.079	0.158	
	ng/ml	0.612	0.490	0.734	0.061	0.122	Roche Cobas e402/e801
	nmol/l	0.783	0.626	0.940	0.079	0.157	
	ng/ml	0.612	0.490	0.734	0.061	0.122	Roche Cobas e601/602
	nmol/l	0.784	0.627	0.941	0.079	0.157	
	ng/ml	0.755	0.604	0.906	0.076	0.151	Siemens Atellica IM
	nmol/l	0.967	0.774	1.16	0.097	0.193	
Ferritin	ng/ml = µg/l	19.3	15.4	23.2	1.95	3.90	Abbott Alinity i
	ng/ml = µg/l	19.2	15.4	23.0	1.90	3.80	Abbott Architect Chemilum
	ng/ml = µg/l	18.5	14.8	22.2	1.85	3.70	Abbott Architect Quantia
	ng/ml = µg/l	14.6	11.7	17.5	1.45	2.90	Agappe Mispa i200/i180
	ng/ml = µg/l	9.95	7.96	11.9	0.975	1.95	Beckman Access
	ng/ml = µg/l	9.87	7.90	11.8	0.965	1.93	Beckman DxI 600/800
	ng/ml = µg/l	9.55	7.64	11.5	0.975	1.95	Beckman DXI9000
	ng/ml = µg/l	13.1	10.5	15.7	1.30	2.60	BioMerieux VIDAS
	ng/ml = µg/l	14.2	11.4	17.0	1.40	2.80	DiaSorin Liaison

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Ferritin	ng/ml = µg/l	14.7	11.8	17.6	1.45	2.90	DiaSorin Liaison XL
	ng/ml = µg/l	12.9	10.3	15.5	1.30	2.60	DIRUI CM Series
	ng/ml = µg/l	21.0	16.8	25.2	2.10	4.20	Lifotronic eCL
	ng/ml = µg/l	13.7	11.0	16.4	1.35	2.70	Maccura I Series
	ng/ml = µg/l	16.5	13.2	19.8	1.65	3.30	Mindray CL 900 Series
	ng/ml = µg/l	16.0	12.8	19.2	1.60	3.20	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	10.9	8.72	13.1	1.10	2.20	Ortho Vitros 3600/5600/ECi/XT/7600
	ng/ml = µg/l	16.3	13.0	19.6	1.65	3.30	Roche Cobas 4000/c311
	ng/ml = µg/l	15.6	12.5	18.7	1.55	3.10	Roche Cobas C303/501/502/503/701/702
	ng/ml = µg/l	17.2	13.8	20.6	1.70	3.40	Roche Cobas e402/e801
	ng/ml = µg/l	17.3	13.8	20.8	1.75	3.50	Roche Elecsys / Cobas e411
	ng/ml = µg/l	17.4	13.9	20.9	1.75	3.50	Roche Modular E170 /Cobas e601/602
	ng/ml = µg/l	15.2	12.2	18.2	1.50	3.00	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	11.5	9.20	13.8	1.15	2.30	Siemens Atellica IM
	ng/ml = µg/l	11.4	9.12	13.7	1.15	2.30	Siemens Centaur
	ng/ml = µg/l	17.3	13.8	20.8	1.75	3.50	Siemens Dimension
	ng/ml = µg/l	12.8	10.2	15.4	1.30	2.60	Siemens Immulite 2000/2500
	ng/ml = µg/l	10.6	8.48	12.7	1.05	2.10	TOSOH AIA Series
	ng/ml = µg/l	14.5	11.6	17.4	1.45	2.90	Tosoh AIA-CL Series

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Folate	ng/ml	3.41	2.59	4.23	0.410	0.820	Abbott Alinity i
	nmol/l	7.74	5.88	9.60	0.930	1.86	
	ng/ml	3.46	2.63	4.29	0.415	0.830	Abbott Architect
	nmol/l	7.84	5.96	9.72	0.940	1.88	
	ng/ml	3.63	2.76	4.50	0.435	0.870	Beckman Access
	nmol/l	8.23	6.25	10.2	0.985	1.97	
	ng/ml	3.53	2.68	4.38	0.425	0.850	Beckman DxI 600/800 - A14208
	nmol/l	8.01	6.09	9.93	0.960	1.92	
	ng/ml	3.54	2.69	4.39	0.425	0.850	Beckman DxI 600/800 - A98032
	nmol/l	8.02	6.10	9.94	0.960	1.92	
	ng/ml	4.07	3.42	4.72	0.325	0.650	Beckman DXI9000
	nmol/l	9.22	7.74	10.7	0.740	1.48	
	ng/ml	8.33	7.00	9.66	0.665	1.33	Mindray CL 900 Series
	nmol/l	18.9	15.9	21.9	1.50	3.00	
	ng/ml	8.38	6.37	10.4	1.01	2.02	Mindray CL series (Excl. CL 900 series)
	nmol/l	19.0	14.4	23.6	2.30	4.60	
	ng/ml	2.48	1.88	3.08	0.300	0.600	Ortho Vitros 3600/5600/ECi/XT/7600
	nmol/l	5.62	4.27	6.97	0.675	1.35	
	ng/ml	2.96	2.25	3.67	0.355	0.710	Roche e402/e801
	nmol/l	6.71	5.10	8.32	0.805	1.61	
	ng/ml	1.47	1.12	1.82	0.175	0.350	Shenzhen YHLO iFlash Series
	nmol/l	3.34	2.54	4.14	0.400	0.800	
	ng/ml	8.91	6.77	11.1	1.10	2.19	Siemens Atellica IM
	nmol/l	20.2	15.4	25.0	2.40	4.80	
	ng/ml	10.2	7.75	12.7	1.25	2.50	Siemens Centaur (enhanced)
	nmol/l	23.2	17.6	28.8	2.80	5.60	
	ng/ml	1.54	1.17	1.91	0.185	0.370	Siemens Dimension
	nmol/l	3.49	2.65	4.33	0.420	0.840	
	ng/ml	2.55	1.94	3.16	0.305	0.610	Siemens/DPC Immulite 2000
	nmol/l	5.79	4.40	7.18	0.695	1.39	
	ng/ml	11.0	8.36	13.6	1.30	2.60	Tosoh AIA-CL Series
	nmol/l	24.9	18.9	30.9	3.00	6.00	
Free T3	ng/dl	0.243	0.182	0.304	0.031	0.061	Abbott Alinity 2 point cal
	pg/ml	2.43	1.82	3.04	0.305	0.610	
	pmol/l	3.74	2.81	4.67	0.465	0.930	
	ng/dl	0.242	0.182	0.302	0.030	0.060	Abbott Alinity 6 point cal
	pg/ml	2.42	1.82	3.02	0.300	0.600	
	pmol/l	3.72	2.79	4.65	0.465	0.930	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T3	ng/dl	0.248	0.186	0.310	0.031	0.062	Abbott Architect 2 point cal
	pg/ml	2.48	1.86	3.10	0.310	0.620	
	pmol/l	3.81	2.86	4.76	0.475	0.950	
	ng/dl	0.247	0.185	0.309	0.031	0.062	Abbott Architect 6 point cal
	pg/ml	2.47	1.85	3.09	0.310	0.620	
	pmol/l	3.80	2.85	4.75	0.475	0.950	
	ng/dl	0.218	0.164	0.272	0.027	0.054	Agappe Mispa i200/i180
	pg/ml	2.19	1.64	2.74	0.275	0.550	
	pmol/l	3.36	2.52	4.20	0.420	0.840	
	ng/dl	0.258	0.194	0.322	0.032	0.064	Beckman Access
	pg/ml	2.58	1.94	3.22	0.320	0.640	
	pmol/l	3.97	2.98	4.96	0.495	0.990	
	ng/dl	0.257	0.193	0.321	0.032	0.064	Beckman DxI 600/800
	pg/ml	2.58	1.94	3.22	0.320	0.640	
	pmol/l	3.96	2.97	4.95	0.495	0.990	
	ng/dl	0.300	0.225	0.375	0.038	0.075	Beckman DXI9000
	pg/ml	3.00	2.25	3.75	0.375	0.750	
	pmol/l	4.61	3.46	5.76	0.575	1.15	
	ng/dl	0.238	0.179	0.297	0.030	0.059	BioMerieux VIDAS
	pg/ml	2.38	1.79	2.97	0.295	0.590	
	pmol/l	3.66	2.75	4.57	0.455	0.910	
	ng/dl	0.215	0.161	0.269	0.027	0.054	DiaSorin Liaison XL
	pg/ml	2.15	1.61	2.69	0.270	0.540	
	pmol/l	3.31	2.48	4.14	0.415	0.830	
	ng/dl	0.269	0.202	0.336	0.034	0.067	DIRUI CM Series
	pg/ml	2.70	2.03	3.37	0.335	0.670	
	pmol/l	4.14	3.11	5.17	0.515	1.03	
	ng/dl	0.242	0.182	0.302	0.030	0.060	Maccura I Series
	pg/ml	2.42	1.82	3.02	0.300	0.600	
	pmol/l	3.72	2.79	4.65	0.465	0.930	
	ng/dl	0.253	0.190	0.316	0.032	0.063	Mindray CL 900 Series FT3105-0042XX-00
	pg/ml	2.53	1.90	3.16	0.315	0.630	
	pmol/l	3.89	2.92	4.86	0.485	0.970	
	ng/dl	0.245	0.184	0.306	0.031	0.061	Mindray CL 900 Series Ref:FT3 11X
	pg/ml	2.45	1.84	3.06	0.305	0.610	
	pmol/l	3.77	2.83	4.71	0.470	0.940	
	ng/dl	0.249	0.187	0.311	0.031	0.062	MindrayCL (Ex. 900 Ser) Ref: FT3 11X
	pg/ml	2.49	1.87	3.11	0.310	0.620	
	pmol/l	3.83	2.87	4.79	0.480	0.960	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T3	ng/dl	0.253	0.190	0.316	0.032	0.063	MindrayCL (Ex. 900 Ser) FT3105-0042XX-00
	pg/ml	2.53	1.90	3.16	0.315	0.630	
	pmol/l	3.89	2.92	4.86	0.485	0.970	
	ng/dl	0.558	0.419	0.697	0.070	0.139	Ortho Vitros 3600/5600/ECi/XT/7600
	pg/ml	5.59	4.19	6.99	0.700	1.40	
	pmol/l	8.59	6.44	10.7	1.06	2.11	
	ng/dl	0.310	0.233	0.387	0.039	0.077	Roche Cobas 4000/e411
	pg/ml	3.11	2.33	3.89	0.390	0.780	
	pmol/l	4.77	3.58	5.96	0.595	1.19	
	ng/dl	0.291	0.218	0.364	0.037	0.073	Roche Cobas e402/e801
	pg/ml	2.92	2.19	3.65	0.365	0.730	
	pmol/l	4.48	3.36	5.60	0.560	1.12	
	ng/dl	0.291	0.218	0.364	0.037	0.073	Roche Cobas e601/ 602
	pg/ml	2.92	2.19	3.65	0.365	0.730	
	pmol/l	4.48	3.36	5.60	0.560	1.12	
	ng/dl	0.300	0.225	0.375	0.038	0.075	Roche Elecsys
	pg/ml	3.00	2.25	3.75	0.375	0.750	
	pmol/l	4.61	3.46	5.76	0.575	1.15	
	ng/dl	0.195	0.146	0.244	0.025	0.049	Shenzhen YHLO iFlash Series
	pg/ml	1.95	1.46	2.44	0.245	0.490	
	pmol/l	3.00	2.25	3.75	0.375	0.750	
	ng/dl	0.379	0.284	0.474	0.048	0.095	Siemens Atellica IM
	pg/ml	3.80	2.85	4.75	0.475	0.950	
	pmol/l	5.83	4.37	7.29	0.730	1.46	
	ng/dl	0.337	0.253	0.421	0.042	0.084	Siemens Centaur
	pg/ml	3.37	2.53	4.21	0.420	0.840	
	pmol/l	5.18	3.89	6.47	0.645	1.29	
	ng/dl	0.239	0.179	0.299	0.030	0.060	Siemens Dimension Exl LOCI
	pg/ml	2.40	1.80	3.00	0.300	0.600	
	pmol/l	3.68	2.76	4.60	0.460	0.920	
	ng/dl	0.219	0.164	0.274	0.028	0.055	Siemens Immulite 2000/2500
	pg/ml	2.19	1.64	2.74	0.275	0.550	
	pmol/l	3.37	2.53	4.21	0.420	0.840	
	ng/dl	0.229	0.172	0.286	0.029	0.057	Sysmex HISCL Series
	pg/ml	2.29	1.72	2.86	0.285	0.570	
	pmol/l	3.52	2.64	4.40	0.440	0.880	
	ng/dl	0.252	0.189	0.315	0.032	0.063	TOSOH AIA Series
	pg/ml	2.52	1.89	3.15	0.315	0.630	
	pmol/l	3.87	2.90	4.84	0.485	0.970	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T3	ng/dl	0.217	0.163	0.271	0.027	0.054	Tosoh AIA-CL Series
	pg/ml	2.17	1.63	2.71	0.270	0.540	
	pmol/l	3.34	2.51	4.17	0.415	0.830	
	ng/dl	0.265	0.199	0.331	0.033	0.066	Zybio CLIA
	pg/ml	2.65	1.99	3.31	0.330	0.660	
	pmol/l	4.07	3.05	5.09	0.510	1.02	
Free T4	ng/dl	0.975	0.731	1.22	0.123	0.245	Abbott Alinity i
	pg/ml	9.75	7.31	12.2	1.23	2.45	
	pmol/l	12.5	9.38	15.6	1.55	3.10	
	ng/dl	0.991	0.743	1.24	0.125	0.249	Abbott Architect
	pg/ml	9.91	7.43	12.4	1.25	2.49	
	pmol/l	12.7	9.53	15.9	1.60	3.20	
	ng/dl	0.991	0.743	1.24	0.125	0.249	Agappe Mispa i200/i180
	pg/ml	9.91	7.43	12.4	1.25	2.49	
	pmol/l	12.7	9.53	15.9	1.60	3.20	
	ng/dl	1.08	0.810	1.35	0.135	0.270	Beckman Access
	pg/ml	10.8	8.10	13.5	1.35	2.70	
	pmol/l	13.9	10.4	17.4	1.75	3.50	
	ng/dl	1.12	0.840	1.40	0.140	0.280	Beckman Access REF C76421
	pg/ml	11.2	8.40	14.0	1.40	2.80	
	pmol/l	14.3	10.7	17.9	1.80	3.60	
	ng/dl	1.05	0.788	1.31	0.130	0.260	Beckman DxI 600/800
	pg/ml	10.5	7.88	13.1	1.30	2.60	
	pmol/l	13.5	10.1	16.9	1.70	3.40	
	ng/dl	1.05	0.788	1.31	0.130	0.260	Beckman DXI 600/800 REF C76421
	pg/ml	10.5	7.88	13.1	1.30	2.60	
	pmol/l	13.4	10.1	16.7	1.65	3.30	
	ng/dl	1.13	0.848	1.41	0.140	0.280	Beckman DXI9000
	pg/ml	11.3	8.48	14.1	1.40	2.80	
	pmol/l	14.5	10.9	18.1	1.80	3.60	
	ng/dl	1.43	1.07	1.79	0.180	0.360	bioMerieux VIDAS-FT4N Kit
	pg/ml	14.3	10.7	17.9	1.80	3.60	
	pmol/l	18.3	13.7	22.9	2.30	4.60	
	ng/dl	1.52	1.14	1.90	0.190	0.380	DiaSorin Liaison XL
	pg/ml	15.2	11.4	19.0	1.90	3.80	
	pmol/l	19.5	14.6	24.4	2.45	4.90	
	ng/dl	1.26	0.945	1.58	0.160	0.320	DIRUI CM Series
	pg/ml	12.6	9.45	15.8	1.60	3.20	
	pmol/l	16.2	12.2	20.2	2.00	4.00	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T4	ng/dl	1.13	0.848	1.41	0.140	0.280	Immunotech RIA
	pg/ml	11.3	8.48	14.1	1.40	2.80	
	pmol/l	14.5	10.9	18.1	1.80	3.60	
	ng/dl	1.10	0.825	1.38	0.140	0.280	Lifotronic eCL
	pg/ml	11.0	8.25	13.8	1.40	2.80	
	pmol/l	14.1	10.6	17.6	1.75	3.50	
	ng/dl	0.998	0.749	1.25	0.126	0.252	Maccura I Series
	pg/ml	9.98	7.49	12.5	1.26	2.52	
	pmol/l	12.8	9.60	16.0	1.60	3.20	
	ng/dl	1.50	1.13	1.87	0.185	0.370	Mindray CL 900 Series FT4105-0042XX-00
	pg/ml	15.0	11.3	18.7	1.85	3.70	
	pmol/l	19.2	14.4	24.0	2.40	4.80	
	ng/dl	1.45	1.09	1.81	0.180	0.360	Mindray CL 900 Series Ref: FT4 11X
	pg/ml	14.5	10.9	18.1	1.80	3.60	
	pmol/l	18.6	14.0	23.2	2.30	4.60	
	ng/dl	1.48	1.11	1.85	0.185	0.370	MindrayCL (Ex. 900 Ser) FT4105-0042XX-00
	pg/ml	14.8	11.1	18.5	1.85	3.70	
	pmol/l	19.0	14.3	23.7	2.35	4.70	
	ng/dl	1.44	1.08	1.80	0.180	0.360	MindrayCL (Ex. 900 Ser) Ref: FT4 11X
	pg/ml	14.4	10.8	18.0	1.80	3.60	
	pmol/l	18.5	13.9	23.1	2.30	4.60	
	ng/dl	1.75	1.31	2.19	0.220	0.440	Ortho Vitros 3600/5600/ECi/XT/7600
	pg/ml	17.5	13.1	21.9	2.20	4.40	
	pmol/l	22.4	16.8	28.0	2.80	5.60	
	ng/dl	1.44	1.08	1.80	0.180	0.360	Roche Cobas 4000/e411
	pg/ml	14.4	10.8	18.0	1.80	3.60	
	pmol/l	18.4	13.8	23.0	2.30	4.60	
	ng/dl	1.43	1.07	1.79	0.180	0.360	Roche Cobas e402/e801
	pg/ml	14.3	10.7	17.9	1.80	3.60	
	pmol/l	18.3	13.7	22.9	2.30	4.60	
	ng/dl	1.45	1.09	1.81	0.180	0.360	Roche Cobas e601/ 602
	pg/ml	14.5	10.9	18.1	1.80	3.60	
	pmol/l	18.6	14.0	23.2	2.30	4.60	
	ng/dl	1.42	1.07	1.77	0.175	0.350	Roche Elecsys
	pg/ml	14.2	10.7	17.7	1.75	3.50	
	pmol/l	18.2	13.7	22.7	2.25	4.50	
	ng/dl	1.04	0.780	1.30	0.130	0.260	Shenzhen YHLO iFlash Series
	pg/ml	10.4	7.80	13.0	1.30	2.60	
	pmol/l	13.3	9.98	16.6	1.65	3.30	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Free T4	ng/dl	1.09	0.818	1.36	0.135	0.270	Siemens Atellica IM
	pg/ml	10.9	8.18	13.6	1.35	2.70	
	pmol/l	14.0	10.5	17.5	1.75	3.50	
	ng/dl	1.02	0.765	1.28	0.130	0.260	Siemens Centaur
	pg/ml	10.2	7.65	12.8	1.30	2.60	
	pmol/l	13.1	9.83	16.4	1.65	3.30	
	ng/dl	0.858	0.644	1.07	0.106	0.212	Siemens Dimension Exl LOCI
	pg/ml	8.58	6.44	10.7	1.06	2.12	
	pmol/l	11.0	8.25	13.8	1.40	2.80	
	ng/dl	1.54	1.16	1.92	0.190	0.380	Siemens Immulite 2000/2500
	pg/ml	15.4	11.6	19.2	1.90	3.80	
	pmol/l	19.8	14.9	24.7	2.45	4.90	
	ng/dl	1.15	0.863	1.44	0.145	0.290	Sysmex HISCL Series
	pg/ml	11.5	8.63	14.4	1.45	2.90	
	pmol/l	14.7	11.0	18.4	1.85	3.70	
	ng/dl	1.03	0.773	1.29	0.130	0.260	TOSOH AIA Series
	pg/ml	10.3	7.73	12.9	1.30	2.60	
	pmol/l	13.2	9.90	16.5	1.65	3.30	
	ng/dl	1.29	0.968	1.61	0.160	0.320	Tosoh AIA-CL Series
	pg/ml	12.9	9.68	16.1	1.60	3.20	
	pmol/l	16.5	12.4	20.6	2.05	4.10	
	ng/dl	1.56	1.17	1.95	0.195	0.390	Zybio CLIA
	pg/ml	15.6	11.7	19.5	1.95	3.90	
	pmol/l	20.0	15.0	25.0	2.50	5.00	
FSH	mU/ml	5.22	4.18	6.26	0.520	1.04	Abbott Alinity i
	mU/ml	4.90	3.92	5.88	0.490	0.980	Abbott Architect
	mU/ml	5.44	4.35	6.53	0.545	1.09	Agappe Mispa i200/i180
	mU/ml	6.02	4.82	7.22	0.600	1.20	Beckman Access
	mU/ml	6.14	4.91	7.37	0.615	1.23	Beckman DxI 600/800
	mU/ml	6.01	4.81	7.21	0.600	1.20	Beckman DXI9000
	mU/ml	6.81	5.45	8.17	0.680	1.36	BioMerieux VIDAS
	mU/ml	8.06	6.45	9.67	0.805	1.61	DiaSorin Liaison XL
	mU/ml	5.13	4.10	6.16	0.515	1.03	DIRUI CM Series
	mU/ml	5.66	4.53	6.79	0.565	1.13	Lifotronic eCL
	mU/ml	5.31	4.25	6.37	0.530	1.06	Maccura I Series
	mU/ml	6.07	4.86	7.28	0.605	1.21	Mindray CL (Excl. CL 900 Series)
	mU/ml	6.30	5.04	7.56	0.630	1.26	Mindray CL 900 Series
	mU/ml	6.07	4.86	7.28	0.605	1.21	Mindray CL 900i >= Lot 240401
	mU/ml	6.27	5.02	7.52	0.625	1.25	MindrayCL8/6/2/12/26/1000i >= Lot 240401

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Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
FSH	mU/ml	4.64	3.71	5.57	0.465	0.930	Ortho Vitros 3600/5600/ECi/XT/7600
	mU/ml	6.29	5.03	7.55	0.630	1.26	Roche Cobas 4000/e411
	mU/ml	5.80	4.64	6.96	0.580	1.16	Roche Cobas e402/e801
	mU/ml	5.79	4.63	6.95	0.580	1.16	Roche Cobas e601/ 602
	mU/ml	6.03	4.82	7.24	0.605	1.21	Roche Elecsys
	mU/ml	5.68	4.54	6.82	0.570	1.14	Shenzhen YHLO iFlash Series
	mU/ml	6.20	4.96	7.44	0.620	1.24	Siemens Atellica IM
	mU/ml	7.29	5.83	8.75	0.730	1.46	Siemens Centaur
	mU/ml	6.42	5.14	7.70	0.640	1.28	Siemens Immulite 2000/2500
	mU/ml	6.59	5.27	7.91	0.660	1.32	TOSOH AIA Series
	mU/ml	5.97	4.78	7.16	0.595	1.19	Tosoh AIA-CL Series
Gentamicin	µg/ml	1.25	1.00	1.50	0.125	0.250	Abbott Alinity (PETINA)
	µmol/l	2.62	2.10	3.14	0.260	0.520	
	µg/ml	0.970	0.776	1.16	0.095	0.190	Abbott Architect (CMIA)
	µmol/l	2.03	1.62	2.44	0.205	0.410	
	µg/ml	0.932	0.746	1.12	0.094	0.188	Cobas c501/502/701/702/311 CEDIA
	µmol/l	1.95	1.56	2.34	0.195	0.390	
	µg/ml	0.918	0.734	1.10	0.091	0.182	Roche Cobas GENT2 (KIMS)
	µmol/l	1.92	1.54	2.30	0.190	0.380	
	µg/ml	1.05	0.840	1.26	0.105	0.210	Siemens Atellica CH
	µmol/l	2.20	1.76	2.64	0.220	0.440	
Growth Hormone (GH)	ng/ml	1.10	0.880	1.32	0.110	0.220	Beckman Access
	µU/ml	3.29	2.63	3.95	0.330	0.660	
	ng/ml	1.06	0.848	1.27	0.105	0.210	Beckman DxI 600/800
	µU/ml	3.18	2.54	3.82	0.320	0.640	
	ng/ml	1.05	0.840	1.26	0.105	0.210	DiaSorin Liaison XL
	µU/ml	3.15	2.52	3.78	0.315	0.630	
	ng/ml	1.40	1.12	1.68	0.140	0.280	Immunotech IRMA
	µU/ml	4.19	3.35	5.03	0.420	0.840	
	ng/ml	1.25	1.00	1.50	0.125	0.250	Mindray CL 900 Series
	µU/ml	3.76	3.01	4.51	0.375	0.750	
	ng/ml	1.24	0.992	1.49	0.125	0.250	Mindray CL series (Excl. CL 900 series)
	µU/ml	3.73	2.98	4.48	0.375	0.750	
	ng/ml	1.35	1.08	1.62	0.135	0.270	Roche Cobas 4000/e411
	µU/ml	4.04	3.23	4.85	0.405	0.810	
	ng/ml	1.33	1.06	1.60	0.135	0.270	Roche Cobas e402/e801
	µU/ml	3.98	3.18	4.78	0.400	0.800	
	ng/ml	1.31	1.05	1.57	0.130	0.260	Roche Cobas e601/ 602
	µU/ml	3.92	3.14	4.70	0.390	0.780	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Growth Hormone (GH)	ng/ml	1.76	1.41	2.11	0.175	0.350	Shenzhen YHLO iFlash Series
	µU/ml	5.28	4.22	6.34	0.530	1.06	
	ng/ml	1.46	1.17	1.75	0.145	0.290	Siemens Immulite 2000/2500
	µU/ml	4.39	3.51	5.27	0.440	0.880	
	ng/ml	1.04	0.832	1.25	0.105	0.210	Tosoh AIA-CL Series
	µU/ml	3.11	2.49	3.73	0.310	0.620	
Immunoglobulin E	KIU/l = IU/ml	232	186	278	23.0	46.0	Abbott Alinity
	KIU/l = IU/ml	236	189	283	23.5	47.0	Abbott Architect
	KIU/l = IU/ml	246	197	295	24.5	49.0	Agappe Mispa i2
	KIU/l = IU/ml	211	169	253	21.0	42.0	Beckman AU analysers
	KIU/l = IU/ml	203	162	244	20.5	41.0	BioMerieux VIDAS
	KIU/l = IU/ml	198	158	238	20.0	40.0	Boditech Med Inc i-CHROMA
	KIU/l = IU/ml	205	164	246	20.5	41.0	Phadia Immunocap instruments
	KIU/l = IU/ml	234	187	281	23.5	47.0	Roche Cobas 4000/e411
	KIU/l = IU/ml	229	183	275	23.0	46.0	Roche Cobas e402/e801
	KIU/l = IU/ml	226	181	271	22.5	45.0	Roche Cobas e601/ 602
	KIU/l = IU/ml	232	186	278	23.0	46.0	Roche Elecsys

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Immunoglobulin E	KIU/l = IU/ml	233	186	280	23.5	47.0	Siemens Atellica IM
	KIU/l = IU/ml	234	187	281	23.5	47.0	Siemens Centaur
	KIU/l = IU/ml	226	181	271	22.5	45.0	Siemens Immulite 2000/2500
	KIU/l = IU/ml	227	182	272	22.5	45.0	Siemens/Dade Behring Nephelometer
	KIU/l = IU/ml	204	163	245	20.5	41.0	TOSOH AIA Series
	KIU/l = IU/ml	196	157	235	19.5	39.0	Tosoh AIA-CL Series
Luteinising Hormone (LH)	mU/ml	1.80	1.44	2.16	0.180	0.360	Abbott Alinity i
	mU/ml	1.83	1.46	2.20	0.185	0.370	Abbott Architect
	mU/ml	2.70	2.16	3.24	0.270	0.540	Agappe Mispa i200/i180
	mU/ml	2.27	1.82	2.72	0.225	0.450	Beckman Access
	mU/ml	2.25	1.80	2.70	0.225	0.450	Beckman DxI 600/800
	mU/ml	2.31	1.85	2.77	0.230	0.460	Beckman DXI9000
	mU/ml	2.67	2.14	3.20	0.265	0.530	BioMerieux VIDAS
	mU/ml	3.84	3.07	4.61	0.385	0.770	DiaSorin Liaison XL
	mU/ml	3.15	2.52	3.78	0.315	0.630	DIRUI CM Series
	mU/ml	3.47	2.78	4.16	0.345	0.690	Lifotronic eCL
	mU/ml	2.52	2.02	3.02	0.250	0.500	Maccura I Series
	mU/ml	3.28	2.62	3.94	0.330	0.660	Mindray CL 900 Series
	mU/ml	3.25	2.60	3.90	0.325	0.650	Mindray CL series (Excl. CL 900 series)
	mU/ml	3.62	2.90	4.34	0.360	0.720	Ortho Vitros 3600/5600/ECi/XT 7600
	mU/ml	3.39	2.71	4.07	0.340	0.680	Roche Cobas 4000/e411
	mU/ml	3.52	2.82	4.22	0.350	0.700	Roche Cobas e402/e801
	mU/ml	3.51	2.81	4.21	0.350	0.700	Roche Cobas e601/ 602
	mU/ml	3.44	2.75	4.13	0.345	0.690	Roche Elecsys
	mU/ml	4.80	3.84	5.76	0.480	0.960	Shenzhen YHLO iFlash Series
	mU/ml	2.31	1.85	2.77	0.230	0.460	Siemens Atellica IM
	mU/ml	2.42	1.94	2.90	0.240	0.480	Siemens Centaur

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Method				Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)			
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Luteinising Hormone (LH)	mU/ml	4.20	3.36	5.04	0.420	0.840	Siemens/DPC Immulite 2000
	mU/ml	2.35	1.88	2.82	0.235	0.470	TOSOH AIA Series
	mU/ml	2.12	1.70	2.54	0.210	0.420	Tosoh AIA-CL Series
Oestradiol	pg/ml	38.1	30.5	45.7	3.80	7.60	Abbott Alinity i
	pmol/l	140	112	168	14.0	28.0	
	pg/ml	38.9	31.1	46.7	3.90	7.80	Abbott Architect
	pmol/l	143	114	172	14.5	29.0	
	pg/ml	36.4	29.1	43.7	3.65	7.30	Beckman Access Sensitive B84493
	pmol/l	134	107	161	13.5	27.0	
	pg/ml	34.5	27.6	41.4	3.45	6.90	Beckman DxI 600/800
	pmol/l	127	102	152	12.5	25.0	
	pg/ml	32.6	26.1	39.1	3.25	6.50	Beckman DxI 600/800 Sensitive B84493
	pmol/l	120	96.0	144	12.0	24.0	
	pg/ml	39.2	31.4	47.0	3.90	7.80	Beckman DxI 9000
	pmol/l	144	115	173	14.5	29.0	
	pg/ml	83.8	67.0	101	8.60	17.2	BioMerieux VIDAS
	pmol/l	308	246	370	31.0	62.0	
	pg/ml	27.7	22.2	33.2	2.75	5.50	DiaSorin Liaison XL
	pmol/l	102	81.6	122	10.0	20.0	
	pg/ml	39.7	31.8	47.6	3.95	7.90	Maccura I Series
	pmol/l	146	117	175	14.5	29.0	
	pg/ml	68.5	54.8	82.2	6.85	13.7	Mindray E2 CL 900 Series
	pmol/l	252	202	302	25.0	50.0	
	pg/ml	68.3	54.6	82.0	6.85	13.7	Mindray E2 CL Ser (Excl. CL 900 Series)
	pmol/l	251	201	301	25.0	50.0	
	pg/ml	33.2	26.6	39.8	3.30	6.60	Mindray E2 II CL 900 Series
	pmol/l	122	97.6	146	12.0	24.0	
	pg/ml	33.2	26.6	39.8	3.30	6.60	Mindray E2 II CL Ser (Ex. CL 900 Series)
	pmol/l	122	97.6	146	12.0	24.0	
	pg/ml	24.2	19.4	29.0	2.40	4.80	Ortho Vitros 3600/5600/ECi/XT 7600
	pmol/l	88.9	71.1	107	9.05	18.1	
	pg/ml	42.4	33.9	50.9	4.25	8.50	Roche Cobas 4000/e411 (Estradiol II)
	pmol/l	156	125	187	15.5	31.0	
	pg/ml	41.1	32.9	49.3	4.10	8.20	Roche Cobas 4000/e411 (Estradiol III)
	pmol/l	151	121	181	15.0	30.0	
	pg/ml	42.4	33.9	50.9	4.25	8.50	Roche Cobas e402/e801 (Estadiol III)
	pmol/l	156	125	187	15.5	31.0	
	pg/ml	43.0	34.4	51.6	4.30	8.60	Roche Cobas e601/ 602 (Estradiol II)
	pmol/l	158	126	190	16.0	32.0	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Oestradiol	pg/ml	43.8	35.0	52.6	4.40	8.80	Roche Cobas e601/ 602 (Estradiol III)
	pmol/l	161	129	193	16.0	32.0	
	pg/ml	36.4	29.1	43.7	3.65	7.30	Roche Elecsys (Estradiol II)
	pmol/l	134	107	161	13.5	27.0	
	pg/ml	41.1	32.9	49.3	4.10	8.20	Roche Elecsys (Estradiol III)
	pmol/l	151	121	181	15.0	30.0	
	pg/ml	43.0	34.4	51.6	4.30	8.60	Shenzhen YHLO iFlash Series
	pmol/l	158	126	190	16.0	32.0	
	pg/ml	36.7	29.4	44.0	3.65	7.30	Siemens Atellica IM
	pmol/l	135	108	162	13.5	27.0	
Phenobarbital	µg/ml	6.38	5.10	7.66	0.640	1.28	Abbott Alinity (PETINA)
	µmol/l	27.5	22.0	33.0	2.75	5.50	
	µg/ml	6.87	5.50	8.24	0.685	1.37	Abbott Architect (CMIA)
	µmol/l	29.6	23.7	35.5	2.95	5.90	
	µg/ml	6.98	5.58	8.38	0.700	1.40	Beckman AU Instruments
	µmol/l	30.1	24.1	36.1	3.00	6.00	
	µg/ml	6.61	5.29	7.93	0.660	1.32	Microgenics CEDIA assay
	µmol/l	28.5	22.8	34.2	2.85	5.70	
	µg/ml	7.03	5.62	8.44	0.705	1.41	Roche Cobas C303/501/502/503/701
	µmol/l	30.3	24.2	36.4	3.05	6.10	
	µg/ml	7.22	5.78	8.66	0.720	1.44	Roche Cobas E601/602/801
	µmol/l	31.1	24.9	37.3	3.10	6.20	
	µg/ml	7.19	5.75	8.63	0.720	1.44	Siemens Atellica CH
	µmol/l	31.0	24.8	37.2	3.10	6.20	
	µg/ml	7.59	6.07	9.11	0.760	1.52	Siemens Immulite 2000/2500
	µmol/l	32.7	26.2	39.2	3.25	6.50	
Phenytoin	µg/ml	4.85	3.88	5.82	0.485	0.970	Abbott Alinity
	µmol/l	19.2	15.4	23.0	1.90	3.80	
	µg/ml	4.47	3.58	5.36	0.445	0.890	Abbott Architect
	µmol/l	17.7	14.2	21.2	1.75	3.50	
	µg/ml	4.22	3.38	5.06	0.420	0.840	Beckman AU Instruments
	µmol/l	16.7	13.4	20.0	1.65	3.30	
	µg/ml	4.42	3.54	5.30	0.440	0.880	EMIT
	µmol/l	17.5	14.0	21.0	1.75	3.50	
	µg/ml	4.65	3.72	5.58	0.465	0.930	Roche Cobas 6000/8000
	µmol/l	18.4	14.7	22.1	1.85	3.70	
	µg/ml	5.05	4.04	6.06	0.505	1.01	Roche cobas c303/503
	µmol/l	20.0	16.0	24.0	2.00	4.00	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Phenytoin	µg/ml	4.39	3.51	5.27	0.440	0.880	Siemens Atellica CH
	µmol/l	17.4	13.9	20.9	1.75	3.50	
	µg/ml	4.49	3.59	5.39	0.450	0.900	Siemens Dimension
	µmol/l	17.8	14.2	21.4	1.80	3.60	
Progesterone	ng/ml	0.711	0.569	0.853	0.071	0.142	Abbott Alinity i
	nmol/l	2.27	1.82	2.72	0.225	0.450	
	ng/ml	0.779	0.623	0.935	0.078	0.156	Abbott Architect
	nmol/l	2.49	1.99	2.99	0.250	0.500	
	ng/ml	0.617	0.494	0.740	0.062	0.123	Beckman DXI9000
	nmol/l	1.97	1.58	2.36	0.195	0.390	
	ng/ml	0.654	0.523	0.785	0.066	0.131	Maccura I Series
	nmol/l	2.09	1.67	2.51	0.210	0.420	
	ng/ml	0.567	0.454	0.680	0.057	0.113	Mindray PROG II CL (Excl. 900 Series)
	nmol/l	1.81	1.45	2.17	0.180	0.360	
	ng/ml	0.532	0.426	0.638	0.053	0.106	Mindray PROG II CL 900 Series
	nmol/l	1.70	1.36	2.04	0.170	0.340	
	ng/ml	0.701	0.561	0.841	0.070	0.140	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	2.24	1.79	2.69	0.225	0.450	
	ng/ml	0.933	0.746	1.12	0.094	0.187	Roche Cobas 4000/e411 (Prog. II)
	nmol/l	2.98	2.38	3.58	0.300	0.600	
	ng/ml	0.936	0.749	1.12	0.092	0.184	Roche Cobas 4000/e411 (Prog. III)
	nmol/l	2.99	2.39	3.59	0.300	0.600	
	ng/ml	0.970	0.776	1.16	0.095	0.190	Roche Cobas e402/e801 (Prog III)
	nmol/l	3.10	2.48	3.72	0.310	0.620	
	ng/ml	0.977	0.782	1.17	0.097	0.193	Roche Cobas e601/ 602 (Prog. II)
	nmol/l	3.12	2.50	3.74	0.310	0.620	
	ng/ml	0.986	0.789	1.18	0.097	0.194	Roche Cobas e601/ 602 (Prog. III)
	nmol/l	3.15	2.52	3.78	0.315	0.630	
	ng/ml	0.995	0.796	1.19	0.098	0.195	Roche Elecsys (Prog. III)
	nmol/l	3.18	2.54	3.82	0.320	0.640	
	ng/ml	0.617	0.494	0.740	0.062	0.123	Shenzhen YHLO iFlash Series
	nmol/l	1.97	1.58	2.36	0.195	0.390	
	ng/ml	0.817	0.654	0.980	0.082	0.163	Siemens Atellica IM
	nmol/l	2.61	2.09	3.13	0.260	0.520	
	ng/ml	0.789	0.631	0.947	0.079	0.158	Siemens Centaur
	nmol/l	2.52	2.02	3.02	0.250	0.500	
	ng/ml	0.786	0.629	0.943	0.079	0.157	Siemens Immulite 2000/2500
	nmol/l	2.51	2.01	3.01	0.250	0.500	

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Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Progesterone	ng/ml	0.632	0.506	0.758	0.063	0.126	TOSOH AIA Series
	nmol/l	2.02	1.62	2.42	0.200	0.400	
	ng/ml	1.10	0.880	1.32	0.110	0.220	Tosoh AIA-CL Series
	nmol/l	3.53	2.82	4.24	0.355	0.710	
Prolactin	µIU/mL	139	111	167	14.0	28.0	Abbott Alinity i
	µIU/mL	138	110	166	14.0	28.0	Abbott Alinity i (standardised 4th WHO)
	µIU/mL	136	109	163	13.5	27.0	Abbott Architect
	µIU/mL	141	113	169	14.0	28.0	Abbott Architect (Standardised 4th WHO)
	µIU/mL	189	151	227	19.0	38.0	Agappe Mispa i200/i180
	µIU/mL	114	91.2	137	11.5	23.0	Beckman Access
	µIU/mL	113	90.4	136	11.5	23.0	Beckman DxI 600/800
	µIU/mL	109	87.2	131	11.0	22.0	Beckman DXI9000
	µIU/mL	133	106	160	13.5	27.0	BioMerieux VIDAS
	µIU/mL	139	111	167	14.0	28.0	DiaSorin Liaison XL
	µIU/mL	191	153	229	19.0	38.0	DIRUI CM Series
	µIU/mL	147	118	176	14.5	29.0	Immunotech IRMA
	µIU/mL	156	125	187	15.5	31.0	Lifotronic eCL
	µIU/mL	121	96.8	145	12.0	24.0	Mindary CL 900 Series Lot >=250601
	µIU/mL	125	100	150	12.5	25.0	Mindray CL 900 Series Lot <=250401
	µIU/mL	122	97.6	146	12.0	24.0	MindrayCL (Excl. 900 Ser) Lot <=250401
	µIU/mL	111	88.8	133	11.0	22.0	MindrayCL (Excl. 900 Ser) Lot >=250601
	µIU/mL	151	121	181	15.0	30.0	Ortho Vitros 3600/5600/ECi/XT 7600
	µIU/mL	148	118	178	15.0	30.0	Roche Cobas 4000/e411
	µIU/mL	138	110	166	14.0	28.0	Roche Cobas e402/e801 PRL II
	µIU/mL	145	116	174	14.5	29.0	Roche Cobas e601/ 602
	µIU/mL	145	116	174	14.5	29.0	Roche Elecsys
	µIU/mL	140	112	168	14.0	28.0	Roche Elecsys/E170/Cobas e601/ 602 PRLII
	µIU/mL	157	126	188	15.5	31.0	Shenzhen YHLO iFlash Series
	µIU/mL	105	84.0	126	10.5	21.0	Siemens Atellica IM
	µIU/mL	111	88.8	133	11.0	22.0	Siemens Centaur
	µIU/mL	110	88.0	132	11.0	22.0	Siemens Immulite 2000/2500
	µIU/mL	122	97.6	146	12.0	24.0	TOSOH AIA Series
	µIU/mL	148	118	178	15.0	30.0	Tosoh AIA-CL Series
PSA Free	ng/ml = µg/l	1.61	1.21	2.01	0.200	0.400	Abbott Alinity i
	ng/ml = µg/l	1.60	1.20	2.00	0.200	0.400	Abbott Architect
	ng/ml = µg/l	1.51	1.13	1.89	0.190	0.380	Agappe Mispa i200/i180

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Free	ng/ml = µg/l	1.83	1.37	2.29	0.230	0.460	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.48	1.11	1.85	0.185	0.370	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	1.79	1.34	2.24	0.225	0.450	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	1.73	1.30	2.16	0.215	0.430	Beckman DXI9000
	ng/ml = µg/l	1.73	1.30	2.16	0.215	0.430	BioMerieux VIDAS
	ng/ml = µg/l	1.56	1.17	1.95	0.195	0.390	DiaSorin Liaison XL
	ng/ml = µg/l	1.29	0.968	1.61	0.160	0.320	DIRUI CM Series
	ng/ml = µg/l	1.36	1.02	1.70	0.170	0.340	Immunotech IRMA
	ng/ml = µg/l	1.63	1.22	2.04	0.205	0.410	Mindray CL 900 Series
	ng/ml = µg/l	1.55	1.16	1.94	0.195	0.390	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	1.17	0.878	1.46	0.145	0.290	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	1.35	1.01	1.69	0.170	0.340	Roche Cobas 4000/e411
	ng/ml = µg/l	1.28	0.960	1.60	0.160	0.320	Roche Cobas e402/e801
	ng/ml = µg/l	1.36	1.02	1.70	0.170	0.340	Roche Cobas e601/602
	ng/ml = µg/l	1.31	0.983	1.64	0.165	0.330	Roche Elecsys
	ng/ml = µg/l	1.94	1.46	2.42	0.240	0.480	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	1.68	1.26	2.10	0.210	0.420	Siemens Atellica IM
	ng/ml = µg/l	1.58	1.19	1.97	0.195	0.390	Siemens Centaur
	ng/ml = µg/l	1.28	0.960	1.60	0.160	0.320	Siemens Immulite 2000/2500

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Free	ng/ml = µg/l	1.31	0.983	1.64	0.165	0.330	TOSOH AIA Series
	ng/ml = µg/l	1.61	1.21	2.01	0.200	0.400	Tosoh AIA-CL Series
PSA Total	ng/ml = µg/l	1.36	1.02	1.70	0.170	0.340	Abbott Alinity i
	ng/ml = µg/l	1.28	0.960	1.60	0.160	0.320	Abbott Architect
	ng/ml = µg/l	1.28	0.960	1.60	0.160	0.320	Agappe Mispa i200/i180
	ng/ml = µg/l	2.06	1.55	2.57	0.255	0.510	Beckman Access standard to WHO IRP96/670
	ng/ml = µg/l	1.98	1.49	2.47	0.245	0.490	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.67	1.25	2.09	0.210	0.420	Beckman DXI standard to WHO IRP96/670
	ng/ml = µg/l	1.97	1.48	2.46	0.245	0.490	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	2.03	1.52	2.54	0.255	0.510	Beckman DXI9000
	ng/ml = µg/l	1.85	1.39	2.31	0.230	0.460	BioMerieux VIDAS
	ng/ml = µg/l	1.80	1.35	2.25	0.225	0.450	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.45	1.09	1.81	0.180	0.360	DiaSorin Liaison XL
	ng/ml = µg/l	1.98	1.49	2.47	0.245	0.490	DIRUI CM Series
	ng/ml = µg/l	6.44	4.83	8.05	0.805	1.61	Finecare
	ng/ml = µg/l	1.32	0.990	1.65	0.165	0.330	Immunotech IRMA
	ng/ml = µg/l	1.72	1.29	2.15	0.215	0.430	Lifotronic eCL
	ng/ml = µg/l	1.25	0.938	1.56	0.155	0.310	Maccura I Series
	ng/ml = µg/l	1.83	1.37	2.29	0.230	0.460	Mindray CL 900 Series

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
PSA Total	ng/ml = µg/l	1.79	1.34	2.24	0.225	0.450	Mindray CL series (Excl. CL 900 series)
	ng/ml = µg/l	1.74	1.31	2.17	0.215	0.430	Ortho Vitros 3600/5600/ECi
	ng/ml = µg/l	1.73	1.30	2.16	0.215	0.430	Ortho Vitros 3600/5600/ECi PSA II/XT7600
	ng/ml = µg/l	1.66	1.25	2.07	0.205	0.410	Roche Cobas 4000/e411
	ng/ml = µg/l	1.72	1.29	2.15	0.215	0.430	Roche Cobas e402/e801
	ng/ml = µg/l	1.75	1.31	2.19	0.220	0.440	Roche Cobas e601/602
	ng/ml = µg/l	1.68	1.26	2.10	0.210	0.420	Roche Elecsys
	ng/ml = µg/l	2.65	1.99	3.31	0.330	0.660	Shenzhen YHLO iFlash Series
	ng/ml = µg/l	1.64	1.23	2.05	0.205	0.410	Siemens Atellica IM
	ng/ml = µg/l	1.63	1.22	2.04	0.205	0.410	Siemens Centaur
	ng/ml = µg/l	1.38	1.04	1.72	0.170	0.340	Siemens Dimension
	ng/ml = µg/l	1.62	1.22	2.02	0.200	0.400	Siemens Immulite 2000/2500 - Total PSA
	ng/ml = µg/l	1.18	0.885	1.48	0.150	0.300	TOSOH AIA Series
	ng/ml = µg/l	1.18	0.885	1.48	0.150	0.300	Tosoh AIA-CL Series
	ng/ml = µg/l	1.90	1.43	2.37	0.235	0.470	Zybio CLIA
SHBG	nmol/l	5.47	4.38	6.56	0.545	1.09	Abbott Alinity i
	nmol/l	5.52	4.42	6.62	0.550	1.10	Abbott Architect
	nmol/l	4.41	3.53	5.29	0.440	0.880	Beckman Access
	nmol/l	4.50	3.60	5.40	0.450	0.900	Beckman DxI 600/800
	nmol/l	5.54	4.43	6.65	0.555	1.11	Mindray CL 900 Series
	nmol/l	5.53	4.42	6.64	0.555	1.11	Mindray CL series (Excl. CL 900 series)
	nmol/l	5.75	4.60	6.90	0.575	1.15	Roche analysers - SHBG
	nmol/l	6.01	4.81	7.21	0.600	1.20	
	nmol/l	5.83	4.66	7.00	0.585	1.17	Roche e402/e801

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Method				Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)			
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
SHBG	nmol/l	5.41	4.33	6.49	0.540	1.08	Shenzhen YHLO iFlash Series
	nmol/l	4.72	3.78	5.66	0.470	0.940	Siemens Atellica IM
	nmol/l	4.41	3.53	5.29	0.440	0.880	Siemens Immulite 2000/2500
	nmol/l	4.37	3.50	5.24	0.435	0.870	Tosoh AIA-CL Series
Testosterone	ng/dl	52.7	42.2	63.2	5.25	10.5	Abbott Alinity i
	ng/ml	0.527	0.422	0.632	0.053	0.105	
	nmol/l	1.83	1.46	2.20	0.185	0.370	
	ng/dl	52.4	41.9	62.9	5.25	10.5	Abbott Architect
	ng/ml	0.524	0.419	0.629	0.053	0.105	
	nmol/l	1.82	1.46	2.18	0.180	0.360	
	ng/dl	52.7	42.2	63.2	5.25	10.5	Abbott Architect 2nd gen
	ng/ml	0.527	0.422	0.632	0.053	0.105	
	nmol/l	1.83	1.46	2.20	0.185	0.370	
	ng/dl	52.2	41.8	62.6	5.20	10.4	Agappe Mispa i200/i180
	ng/ml	0.521	0.417	0.625	0.052	0.104	
	nmol/l	1.81	1.45	2.17	0.180	0.360	
	ng/dl	36.6	29.3	43.9	3.65	7.30	Beckman Access
	ng/ml	0.366	0.293	0.439	0.037	0.073	
	nmol/l	1.27	1.02	1.52	0.125	0.250	
	ng/dl	34.0	27.2	40.8	3.40	6.80	Beckman DxI 600/800
	ng/ml	0.340	0.272	0.408	0.034	0.068	
	nmol/l	1.18	0.944	1.42	0.120	0.240	
	ng/dl	32.3	25.8	38.8	3.25	6.50	Beckman DXI9000
	ng/ml	0.323	0.258	0.388	0.033	0.065	
	nmol/l	1.12	0.896	1.34	0.110	0.220	
	ng/dl	48.4	38.7	58.1	4.85	9.70	Immunotech RIA
	ng/ml	0.484	0.387	0.581	0.049	0.097	
	nmol/l	1.68	1.34	2.02	0.170	0.340	
	ng/dl	61.1	48.9	73.3	6.10	12.2	Maccura I Series
	ng/ml	0.611	0.489	0.733	0.061	0.122	
	nmol/l	2.12	1.70	2.54	0.210	0.420	
	ng/dl	42.7	34.2	51.2	4.25	8.50	Mindray CL series (Excl. CL 900 series)
	ng/ml	0.426	0.341	0.511	0.043	0.085	
	nmol/l	1.48	1.18	1.78	0.150	0.300	
	ng/dl	44.4	35.5	53.3	4.45	8.90	Mindray TESTO II CL (Excl CL 900 Series)
	ng/ml	0.444	0.355	0.533	0.045	0.089	
	nmol/l	1.54	1.23	1.85	0.155	0.310	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Testosterone	ng/dl	42.4	33.9	50.9	4.25	8.50	Mindray TESTO II CL 900i
	ng/ml	0.423	0.338	0.508	0.043	0.085	
	nmol/l	1.47	1.18	1.76	0.145	0.290	
	ng/dl	24.3	19.4	29.2	2.45	4.90	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml	0.243	0.194	0.292	0.025	0.049	
	nmol/l	0.844	0.675	1.01	0.083	0.166	
	ng/dl	40.9	32.7	49.1	4.10	8.20	Roche Cobas 4000/e411 Test II
	ng/ml	0.409	0.327	0.491	0.041	0.082	
	nmol/l	1.42	1.14	1.70	0.140	0.280	
	ng/dl	44.7	35.8	53.6	4.45	8.90	Roche Cobas e402/e801 Test II
	ng/ml	0.446	0.357	0.535	0.045	0.089	
	nmol/l	1.55	1.24	1.86	0.155	0.310	
	ng/dl	40.6	32.5	48.7	4.05	8.10	Roche Cobas e601/ 602 Test II
	ng/ml	0.406	0.325	0.487	0.041	0.081	
	nmol/l	1.41	1.13	1.69	0.140	0.280	
	ng/dl	41.8	33.4	50.2	4.20	8.40	Roche Elecsys Test II
	ng/ml	0.418	0.334	0.502	0.042	0.084	
	nmol/l	1.45	1.16	1.74	0.145	0.290	
	ng/dl	23.4	18.7	28.1	2.35	4.70	Shenzhen YHLO iFlash Series
	ng/ml	0.234	0.187	0.281	0.024	0.047	
	nmol/l	0.813	0.650	0.976	0.082	0.163	
	ng/dl	32.3	25.8	38.8	3.25	6.50	Siemens Atellica IM
	ng/ml	0.323	0.258	0.388	0.033	0.065	
	nmol/l	1.12	0.896	1.34	0.110	0.220	
	ng/dl	41.8	33.4	50.2	4.20	8.40	Siemens Centaur XP/XPT TSTII
	ng/ml	0.418	0.334	0.502	0.042	0.084	
	nmol/l	1.45	1.16	1.74	0.145	0.290	
	ng/dl	36.3	29.0	43.6	3.65	7.30	Siemens Immulite 2000/2500
	ng/ml	0.363	0.290	0.436	0.037	0.073	
	nmol/l	1.26	1.01	1.51	0.125	0.250	
	ng/dl	67.1	53.7	80.5	6.70	13.4	Tosoh AIA-CL Series
	ng/ml	0.671	0.537	0.805	0.067	0.134	
	nmol/l	2.33	1.86	2.80	0.235	0.470	
Theophylline	µg/ml	5.05	4.04	6.06	0.505	1.01	Abbott Alinity Enzyme-immu
	µmol/l	28.0	22.4	33.6	2.80	5.60	
	µg/ml	5.39	4.31	6.47	0.540	1.08	Roche Cobas 6000/8000
	µmol/l	29.9	23.9	35.9	3.00	6.00	
Thyroglobulin	ng/ml	3.04	2.28	3.80	0.380	0.760	Abbott Alinity i
	ng/ml	3.08	2.31	3.85	0.385	0.770	Abbott Architect

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroglobulin	ng/ml	2.24	1.68	2.80	0.280	0.560	Beckman Access
	ng/ml	2.41	1.81	3.01	0.300	0.600	Beckman Access (C71762)
	ng/ml	2.18	1.64	2.72	0.270	0.540	Beckman DxI 600/800
	ng/ml	2.67	2.00	3.34	0.335	0.670	Beckman DXI9000
	ng/ml	1.09	0.818	1.36	0.135	0.270	DiaSorin Liaison XL TG II Gen
	ng/ml	1.95	1.46	2.44	0.245	0.490	Izotop Gamma Counter
	ng/ml	3.55	2.66	4.44	0.445	0.890	Lifotronic eCL
	ng/ml	2.66	2.00	3.32	0.330	0.660	Mindray CL 900i Ref:105-0056XX-00
	ng/ml	0.779	0.584	0.974	0.098	0.195	Mindray CL 900i Ref:TG11X
	ng/ml	0.771	0.578	0.964	0.097	0.193	MindrayCL (Ex. 900 Ser) Ref: Tg11X
	ng/ml	2.54	1.91	3.17	0.315	0.630	MindrayCL (Ex. 900 Ser) Ref105-0056XX-00
	ng/ml	2.38	1.79	2.97	0.295	0.590	Roche Cobas 4000/e411
	ng/ml	2.36	1.77	2.95	0.295	0.590	Roche Cobas 4000/e411 TgII
	ng/ml	2.33	1.75	2.91	0.290	0.580	Roche Cobas e402/e801 Tg II
	ng/ml	2.43	1.82	3.04	0.305	0.610	Roche Cobas e601/602
	ng/ml	2.41	1.81	3.01	0.300	0.600	Roche Cobas e601/602 Tg II
	ng/ml	2.38	1.79	2.97	0.295	0.590	Roche Elecsys
	ng/ml	2.39	1.79	2.99	0.300	0.600	Roche Elecsys Tg II
	ng/ml	2.88	2.16	3.60	0.360	0.720	Shenzhen YHLO iFlash Series
	ng/ml	1.82	1.37	2.27	0.225	0.450	Siemens Atellica IM
	ng/ml	2.79	2.09	3.49	0.350	0.700	TOSOH AIA Series
	ng/ml	2.31	1.73	2.89	0.290	0.580	Tosoh AIA-CL Series
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.096	0.077	0.115	0.010	0.019	Abbott Alinity i
	µU/ml	0.096	0.077	0.115	0.010	0.019	
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Abbott Architect
	µU/ml	0.092	0.074	0.110	0.009	0.018	
	µU/ml = mIU/l	0.088	0.070	0.106	0.009	0.018	Access hyper TSH 3rd gen
	µU/ml	0.088	0.070	0.106	0.009	0.018	
	µU/ml = mIU/l	0.146	0.117	0.175	0.015	0.029	Agappe Mispa i200/i180
	µU/ml	0.146	0.117	0.175	0.015	0.029	

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Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.087	0.070	0.104	0.009	0.017	Beckman DxI 600/800 1st generation
	µU/ml	0.087	0.070	0.104	0.009	0.017	
	µU/ml = mIU/l	0.086	0.069	0.103	0.009	0.017	Beckman DXI 600/800 Fast TSH
	µU/ml	0.086	0.069	0.103	0.009	0.017	
	µU/ml = mIU/l	0.085	0.068	0.102	0.009	0.017	Beckman DXI 600/800 Hyper TSH
	µU/ml	0.085	0.068	0.102	0.009	0.017	
	µU/ml = mIU/l	0.086	0.069	0.103	0.009	0.017	Beckman DXI 600/800/ Access 2 (3rd IS)
	µU/ml	0.086	0.069	0.103	0.009	0.017	
	µU/ml = mIU/l	0.095	0.076	0.114	0.010	0.019	Beckman DXI9000
	µU/ml	0.095	0.076	0.114	0.010	0.019	
	µU/ml = mIU/l	0.230	0.184	0.276	0.023	0.046	DiaSorin Liaison XL
	µU/ml	0.230	0.184	0.276	0.023	0.046	
	µU/ml = mIU/l	0.113	0.090	0.136	0.012	0.023	DIRUI CM Series
	µU/ml	0.113	0.090	0.136	0.012	0.023	
	µU/ml = mIU/l	0.103	0.082	0.124	0.011	0.021	Fujirebio Lumipulse G Series
	µU/ml	0.103	0.082	0.124	0.011	0.021	
	µU/ml = mIU/l	0.224	0.179	0.269	0.023	0.045	Immunotech IRMA
	µU/ml	0.224	0.179	0.269	0.023	0.045	

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RANDOX

Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.142	0.114	0.170	0.014	0.028	Izotop IRMA
	µU/ml	0.142	0.114	0.170	0.014	0.028	
	µU/ml = mIU/l	0.137	0.110	0.164	0.014	0.027	Maccura I Series
	µU/ml	0.137	0.110	0.164	0.014	0.027	
	µU/ml = mIU/l	0.096	0.077	0.115	0.010	0.019	Mindray CL 900i TSH 105-0042XX-00
	µU/ml	0.096	0.077	0.115	0.010	0.019	
	µU/ml = mIU/l	0.093	0.074	0.112	0.010	0.019	MindrayCL (Ex. 900 Ser) Ref: TSH 11X
	µU/ml	0.093	0.074	0.112	0.010	0.019	
	µU/ml = mIU/l	0.097	0.078	0.116	0.010	0.019	MindrayCL (Ex. 900 Ser) TSH105-0042XX-00
	µU/ml	0.097	0.078	0.116	0.010	0.019	
	µU/ml = mIU/l	0.118	0.094	0.142	0.012	0.024	Ortho Vitros TSH
	µU/ml	0.118	0.094	0.142	0.012	0.024	
	µU/ml = mIU/l	0.116	0.093	0.139	0.012	0.023	Ortho Vitros TSH3
	µU/ml	0.116	0.093	0.139	0.012	0.023	
	µU/ml = mIU/l	0.123	0.098	0.148	0.013	0.025	Roche Cobas 4000/e411
	µU/ml	0.123	0.098	0.148	0.013	0.025	
	µU/ml = mIU/l	0.116	0.093	0.139	0.012	0.023	Roche Cobas e402/e801
	µU/ml	0.116	0.093	0.139	0.012	0.023	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.121	0.097	0.145	0.012	0.024	Roche Cobas e601/ 602
	µU/ml	0.121	0.097	0.145	0.012	0.024	
	µU/ml = mIU/l	0.117	0.094	0.140	0.012	0.023	Roche Elecsys
	µU/ml	0.117	0.094	0.140	0.012	0.023	
	µU/ml = mIU/l	0.167	0.134	0.200	0.017	0.033	Shenzhen YHLO iFlash Series
	µU/ml	0.167	0.134	0.200	0.017	0.033	
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Siemens Atellica IM
	µU/ml	0.092	0.074	0.110	0.009	0.018	
	µU/ml = mIU/l	0.093	0.074	0.112	0.010	0.019	Siemens Atellica TSH3-Ultra
	µU/ml	0.093	0.074	0.112	0.010	0.019	
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Siemens Atellica TSH3-Ultra II
	µU/ml	0.092	0.074	0.110	0.009	0.018	
	µU/ml = mIU/l	0.092	0.074	0.110	0.009	0.018	Siemens Centaur
	µU/ml	0.092	0.074	0.110	0.009	0.018	
	µU/ml = mIU/l	0.091	0.073	0.109	0.009	0.018	Siemens Centaur TSH3-Ultra
	µU/ml	0.091	0.073	0.109	0.009	0.018	
	µU/ml = mIU/l	0.094	0.075	0.113	0.010	0.019	Siemens Centaur TSH3-Ultra II
	µU/ml	0.094	0.075	0.113	0.010	0.019	

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RANDOX

Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.094	0.075	0.113	0.010	0.019	Siemens Dimension Exl LOCI
	µU/ml	0.094	0.075	0.113	0.010	0.019	
	µU/ml = mIU/l	0.083	0.066	0.100	0.009	0.017	Sysmex HISCL Series
	µU/ml	0.083	0.066	0.100	0.009	0.017	
	µU/ml = mIU/l	0.128	0.102	0.154	0.013	0.026	TOSOH AIA Series
	µU/ml	0.128	0.102	0.154	0.013	0.026	
	µU/ml = mIU/l	0.135	0.108	0.162	0.014	0.027	Tosoh AIA-CL Series
	µU/ml	0.135	0.108	0.162	0.014	0.027	
Total HCG	mU/ml = IU/l	9.69	7.75	11.6	0.955	1.91	Beckman Access
	mU/ml = IU/l	9.84	7.87	11.8	0.980	1.96	Beckman Access Total BhCG (5th IS)
	mU/ml = IU/l	9.94	7.95	11.9	0.980	1.96	Beckman DxI 600/800
	mU/ml = IU/l	10.1	8.08	12.1	1.00	2.00	Beckman DXI Total BhCG (5th IS)
	mU/ml = IU/l	9.24	7.39	11.1	0.930	1.86	Beckman DXI9000
Total T3	ng/dl	47.3	35.5	59.1	5.90	11.8	Abbott Alinity i
	ng/ml	0.475	0.356	0.594	0.060	0.119	
	nmol/l	0.729	0.547	0.911	0.091	0.182	
	ng/dl	49.5	37.1	61.9	6.20	12.4	Abbott Architect
	ng/ml	0.496	0.372	0.620	0.062	0.124	
	nmol/l	0.762	0.572	0.952	0.095	0.190	
	ng/dl	43.2	32.4	54.0	5.40	10.8	Agappe Mispa i200/i180
	ng/ml	0.433	0.325	0.541	0.054	0.108	
	nmol/l	0.665	0.499	0.831	0.083	0.166	
	ng/dl	46.0	34.5	57.5	5.75	11.5	BioMerieux VIDAS
	ng/ml	0.461	0.346	0.576	0.058	0.115	
	nmol/l	0.708	0.531	0.885	0.089	0.177	

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RANDOX

Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total T3	ng/dl	53.1	39.8	66.4	6.65	13.3	DiaSorin Liaison XL
	ng/ml	0.532	0.399	0.665	0.067	0.133	
	nmol/l	0.817	0.613	1.02	0.102	0.203	
	ng/dl	39.4	29.6	49.2	4.90	9.80	Immunotech RIA
	ng/ml	0.395	0.296	0.494	0.050	0.099	
	nmol/l	0.607	0.455	0.759	0.076	0.152	
	ng/dl	51.3	38.5	64.1	6.40	12.8	Mindray CL 900i Ref: T3 11X
	ng/ml	0.514	0.386	0.642	0.064	0.128	
	nmol/l	0.790	0.593	0.987	0.099	0.197	
	ng/dl	49.6	37.2	62.0	6.20	12.4	Mindray CL 900i T3 105-0042XX-00
	ng/ml	0.497	0.373	0.621	0.062	0.124	
	nmol/l	0.764	0.573	0.955	0.096	0.191	
	ng/dl	50.2	37.7	62.7	6.25	12.5	MindrayCL (Ex. 900 Ser) Ref: T3 11X
	ng/ml	0.503	0.377	0.629	0.063	0.126	
	nmol/l	0.773	0.580	0.966	0.097	0.193	
	ng/dl	49.4	37.1	61.7	6.15	12.3	MindrayCL (Ex. 900 Ser) T3 105-0042XX-00
	ng/ml	0.495	0.371	0.619	0.062	0.124	
	nmol/l	0.761	0.571	0.951	0.095	0.190	
	ng/dl	67.5	50.6	84.4	8.45	16.9	Ortho Vitros 3600/5600/ECi/XT 7600
	ng/ml	0.677	0.508	0.846	0.085	0.169	
	nmol/l	1.04	0.780	1.30	0.130	0.260	
	ng/dl	90.3	67.7	113	11.4	22.7	Roche Cobas 4000/e411
	ng/ml	0.905	0.679	1.13	0.113	0.225	
	nmol/l	1.39	1.04	1.74	0.175	0.350	
	ng/dl	83.8	62.9	105	10.6	21.2	Roche Cobas e402/e801
	ng/ml	0.840	0.630	1.05	0.105	0.210	
	nmol/l	1.29	0.968	1.61	0.160	0.320	
	ng/dl	82.5	61.9	103	10.3	20.5	Roche Cobas e601/ 602
	ng/ml	0.827	0.620	1.03	0.102	0.203	
	nmol/l	1.27	0.953	1.59	0.160	0.320	
	ng/dl	85.1	63.8	106	10.5	20.9	Roche Elecsys
	ng/ml	0.853	0.640	1.07	0.109	0.217	
	nmol/l	1.31	0.983	1.64	0.165	0.330	
	ng/dl	52.9	39.7	66.1	6.60	13.2	Shenzhen YHLO iFlash Series
	ng/ml	0.530	0.398	0.662	0.066	0.132	
	nmol/l	0.814	0.611	1.02	0.103	0.206	
	ng/dl	46.8	35.1	58.5	5.85	11.7	Tosoh AIA-CL Series
	ng/ml	0.469	0.352	0.586	0.059	0.117	
	nmol/l	0.720	0.540	0.900	0.090	0.180	

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Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
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Method				Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)			
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total T3	ng/dl	66.2	49.7	82.7	8.25	16.5	Vitros TT3-2
	ng/ml	0.664	0.498	0.830	0.083	0.166	
	nmol/l	1.02	0.765	1.28	0.130	0.260	
Total T4	ng/ml	25.0	18.8	31.2	3.10	6.20	Abbott Alinity i
	nmol/l	32.1	24.1	40.1	4.00	8.00	
	µg/dl	2.50	1.88	3.12	0.310	0.620	
	ng/ml	26.7	20.0	33.4	3.35	6.70	Abbott Architect
	nmol/l	34.2	25.7	42.7	4.25	8.50	
	µg/dl	2.67	2.00	3.34	0.335	0.670	
	ng/ml	23.6	17.7	29.5	2.95	5.90	Agappe Mispa i200/i180
	nmol/l	30.3	22.7	37.9	3.80	7.60	
	µg/dl	2.36	1.77	2.95	0.295	0.590	
	ng/ml	19.7	14.8	24.6	2.45	4.90	Beckman DxI 600/800
	nmol/l	25.2	18.9	31.5	3.15	6.30	
	µg/dl	1.97	1.48	2.46	0.245	0.490	
	ng/ml	29.2	21.9	36.5	3.65	7.30	BioMerieux VIDAS
	nmol/l	37.5	28.1	46.9	4.70	9.40	
	µg/dl	2.93	2.20	3.66	0.365	0.730	
	ng/ml	28.8	21.6	36.0	3.60	7.20	DiaSorin Liaison XL
	nmol/l	36.9	27.7	46.1	4.60	9.20	
	µg/dl	2.88	2.16	3.60	0.360	0.720	
	ng/ml	24.7	18.5	30.9	3.10	6.20	DIRUI CM Series
	nmol/l	31.7	23.8	39.6	3.95	7.90	
	µg/dl	2.47	1.85	3.09	0.310	0.620	
	ng/ml	26.6	20.0	33.2	3.30	6.60	Immunotech RIA
	nmol/l	34.1	25.6	42.6	4.25	8.50	
	µg/dl	2.66	2.00	3.32	0.330	0.660	
	ng/ml	29.1	21.8	36.4	3.65	7.30	Lifotronic eCL
	nmol/l	37.3	28.0	46.6	4.65	9.30	
	µg/dl	2.91	2.18	3.64	0.365	0.730	
	ng/ml	24.3	18.2	30.4	3.05	6.10	Mindray CL 900i T4 105-0042XX-00
	nmol/l	31.2	23.4	39.0	3.90	7.80	
	µg/dl	2.43	1.82	3.04	0.305	0.610	
	ng/ml	25.3	19.0	31.6	3.15	6.30	MindrayCL (Ex. 900 Ser) Ref: T4 11X
	nmol/l	32.4	24.3	40.5	4.05	8.10	
	µg/dl	2.53	1.90	3.16	0.315	0.630	
	ng/ml	24.9	18.7	31.1	3.10	6.20	MindrayCL (Ex. 900 Ser) T4 105-0042XX-00
	nmol/l	31.9	23.9	39.9	4.00	8.00	
	µg/dl	2.49	1.87	3.11	0.310	0.620	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Total T4	ng/ml	19.4	14.6	24.2	2.40	4.80	Ortho Vitros 3600/5600/ECi/XT 7600
	nmol/l	24.9	18.7	31.1	3.10	6.20	
	µg/dl	1.94	1.46	2.42	0.240	0.480	
	ng/ml	29.6	22.2	37.0	3.70	7.40	Roche Cobas 4000/e411
	nmol/l	37.9	28.4	47.4	4.75	9.50	
	µg/dl	2.96	2.22	3.70	0.370	0.740	
	ng/ml	26.5	19.9	33.1	3.30	6.60	Roche Cobas e402/e801
	nmol/l	34.0	25.5	42.5	4.25	8.50	
	µg/dl	2.65	1.99	3.31	0.330	0.660	
	ng/ml	28.3	21.2	35.4	3.55	7.10	Roche Cobas e601/ 602
	nmol/l	36.3	27.2	45.4	4.55	9.10	
	µg/dl	2.83	2.12	3.54	0.355	0.710	
	ng/ml	28.9	21.7	36.1	3.60	7.20	Roche Elecsys
	nmol/l	37.1	27.8	46.4	4.65	9.30	
	µg/dl	2.89	2.17	3.61	0.360	0.720	
	ng/ml	30.0	22.5	37.5	3.75	7.50	Shenzhen YHLO iFlash Series
	nmol/l	38.4	28.8	48.0	4.80	9.60	
	µg/dl	3.00	2.25	3.75	0.375	0.750	
	ng/ml	19.0	14.3	23.7	2.35	4.70	Siemens Atellica IM
	nmol/l	24.4	18.3	30.5	3.05	6.10	
	µg/dl	1.90	1.43	2.37	0.235	0.470	
	ng/ml	20.2	15.2	25.2	2.50	5.00	TOSOH AIA Series
	nmol/l	25.9	19.4	32.4	3.25	6.50	
	µg/dl	2.02	1.52	2.52	0.250	0.500	
	ng/ml	25.7	19.3	32.1	3.20	6.40	Tosoh AIA-CL Series
	nmol/l	32.9	24.7	41.1	4.10	8.20	
	µg/dl	2.57	1.93	3.21	0.320	0.640	
Valproic Acid	µg/ml	28.9	23.1	34.7	2.90	5.80	Abbott Alinity (CMIA)
	µmol/l	200	160	240	20.0	40.0	
	µg/ml	28.3	22.6	34.0	2.85	5.70	Abbott Alinity (PETINA)
	µmol/l	196	157	235	19.5	39.0	
	µg/ml	31.2	25.0	37.4	3.10	6.20	Abbott Architect (CMIA)
	µmol/l	216	173	259	21.5	43.0	
	µg/ml	29.1	23.3	34.9	2.90	5.80	Abbott Architect (PETINIA)
	µmol/l	202	162	242	20.0	40.0	
	µg/ml	35.1	28.1	42.1	3.50	7.00	Beckman AU Instruments
	µmol/l	243	194	292	24.5	49.0	
	µg/ml	34.8	27.8	41.8	3.50	7.00	Beckman DxC
	µmol/l	241	193	289	24.0	48.0	

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Method				Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)			
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Valproic Acid	µg/ml	35.6	28.5	42.7	3.55	7.10	EMIT
	µmol/l	247	198	296	24.5	49.0	
	µg/ml	34.2	27.4	41.0	3.40	6.80	Ortho Vitros 4600/5600/5.1/XT 7600
	µmol/l	237	190	284	23.5	47.0	
	µg/ml	33.3	26.6	40.0	3.35	6.70	Roche Cobas 4000/c311
	µmol/l	231	185	277	23.0	46.0	
	µg/ml	31.0	24.8	37.2	3.10	6.20	Roche Cobas 6000/8000
	µmol/l	215	172	258	21.5	43.0	
	µg/ml	30.7	24.6	36.8	3.05	6.10	Roche cobas c303/503
	µmol/l	213	170	256	21.5	43.0	
	µg/ml	34.3	27.4	41.2	3.45	6.90	Siemens Atellica CH
	µmol/l	238	190	286	24.0	48.0	
	µg/ml	31.3	25.0	37.6	3.15	6.30	Siemens Dimension
	µmol/l	217	174	260	21.5	43.0	
	µg/ml	29.6	23.7	35.5	2.95	5.90	Siemens Immulite 2000/2500
	µmol/l	205	164	246	20.5	41.0	
Vancomycin	µg/ml	5.23	4.18	6.28	0.525	1.05	Abbott Alinity (CMIA)
	µmol/l	3.52	2.82	4.22	0.350	0.700	
	µg/ml	5.38	4.30	6.46	0.540	1.08	Abbott Alinity (PETINA)
	µmol/l	3.62	2.90	4.34	0.360	0.720	
	µg/ml	5.11	4.09	6.13	0.510	1.02	Abbott Architect (CMIA)
	µmol/l	3.44	2.75	4.13	0.345	0.690	
	µg/ml	4.90	3.92	5.88	0.490	0.980	Beckman Coulter Synchron LX / Unicel
	µmol/l	3.30	2.64	3.96	0.330	0.660	
	µg/ml	4.71	3.77	5.65	0.470	0.940	EMIT
	µmol/l	3.17	2.54	3.80	0.315	0.630	
	µg/ml	5.30	4.24	6.36	0.530	1.06	Ortho Vitros Microslide Systems
	µmol/l	3.57	2.86	4.28	0.355	0.710	
	µg/ml	4.75	3.80	5.70	0.475	0.950	Roche Cobas 6000/8000
	µmol/l	3.20	2.56	3.84	0.320	0.640	
	µg/ml	4.78	3.82	5.74	0.480	0.960	Roche cobas c303/503
	µmol/l	3.22	2.58	3.86	0.320	0.640	
	µg/ml	4.66	3.73	5.59	0.465	0.930	Siemens Atellica CH
	µmol/l	3.14	2.51	3.77	0.315	0.630	
	µg/ml	4.40	3.52	5.28	0.440	0.880	Siemens Dimension
	µmol/l	2.96	2.37	3.55	0.295	0.590	
Vitamin B12	pg/ml	233	186	280	23.5	47.0	Abbott Alinity i
	pmol/l	172	138	206	17.0	34.0	

Randox Laboratories Ltd., 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom
Tel: +44 (0) 28 9442 2413 Fax: +44 (0) 28 9445 2912
Email: applications@randox.com Website: www.randox.com

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Method					Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)		
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	Unit	Target	Low	High	1SD	2SD	Method
Vitamin B12	pg/ml	203	162	244	20.5	41.0	Abbott Architect
	pmol/l	150	120	180	15.0	30.0	
	pg/ml	169	135	203	17.0	34.0	Agappe Mispa i200/i180
	pmol/l	125	100	150	12.5	25.0	
	pg/ml	201	161	241	20.0	40.0	Beckman Access Vit B12 II Cal Ref D06116
	pmol/l	148	118	178	15.0	30.0	
	pg/ml	203	162	244	20.5	41.0	Beckman DXI 600/800 B12 II Cal D06116
	pmol/l	150	120	180	15.0	30.0	
	pg/ml	145	116	174	14.5	29.0	Beckman DXI9000
	pmol/l	107	85.6	128	10.5	21.0	
	pg/ml	179	143	215	18.0	36.0	BioMerieux VIDAS
	pmol/l	132	106	158	13.0	26.0	
	pg/ml	128	102	154	13.0	26.0	DiaSorin Liaison XL
	pmol/l	94.3	75.4	113	9.35	18.7	
	pg/ml	251	201	301	25.0	50.0	DIRUI CM Series
	pmol/l	185	148	222	18.5	37.0	
	pg/ml	157	126	188	15.5	31.0	Lifotronic eCL
	pmol/l	116	92.8	139	11.5	23.0	
	pg/ml	217	174	260	21.5	43.0	Mindray CL 900 Series
	pmol/l	160	128	192	16.0	32.0	
	pg/ml	218	174	262	22.0	44.0	Mindray CL series (Excl. CL 900 series)
	pmol/l	161	129	193	16.0	32.0	
	pg/ml	192	154	230	19.0	38.0	Ortho Vitros 3600/5600/ECi/XT 7600
	pmol/l	142	114	170	14.0	28.0	
	pg/ml	251	201	301	25.0	50.0	Roche Cobas 4000/e411 Gen II
	pmol/l	185	148	222	18.5	37.0	
	pg/ml	232	186	278	23.0	46.0	Roche Cobas 4000/e411 USE VBRC2
	pmol/l	171	137	205	17.0	34.0	
	pg/ml	205	164	246	20.5	41.0	Roche Cobas e402/e801 Gen II
	pmol/l	151	121	181	15.0	30.0	
	pg/ml	224	179	269	22.5	45.0	Roche Cobas e601/ 602 Gen II
	pmol/l	165	132	198	16.5	33.0	
	pg/ml	218	174	262	22.0	44.0	Roche Cobas e601/ 602 USE VBC62
	pmol/l	161	129	193	16.0	32.0	
	pg/ml	233	186	280	23.5	47.0	Roche Elecsys
	pmol/l	172	138	206	17.0	34.0	
	pg/ml	196	157	235	19.5	39.0	Shenzhen YHLO iFlash
	pmol/l	145	116	174	14.5	29.0	

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Method							Immunoassay Premium Plus - Level 1 (IA PREMIUM PLUS 1)
Lot. No: 2719EC Cat. No: IA3109 Expiry: 2029/04/30							
Size: 12 x 5 ml / 4 x 5 ml			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Vitamin B12	pg/ml	184	147	221	18.5	37.0	Siemens Atellica IM lot 13290
	pmol/l	136	109	163	13.5	27.0	
	pg/ml	178	142	214	18.0	36.0	Siemens Atellica IM lot 13291 and above
	pmol/l	131	105	157	13.0	26.0	
	pg/ml	190	152	228	19.0	38.0	Siemens Centaur
	pmol/l	140	112	168	14.0	28.0	
	pg/ml	172	138	206	17.0	34.0	Siemens Dimension
	pmol/l	127	102	152	12.5	25.0	
	pg/ml	167	134	200	16.5	33.0	Siemens/DPC Immulite 2000
	pmol/l	123	98.4	148	12.5	25.0	
	pg/ml	140	112	168	14.0	28.0	Tosoh AIA-CL Series
	pmol/l	103	82.4	124	10.5	21.0	

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