

PRODUCT INFORMATION

IA3112 lot 1937EC

Please note that analyte <u>CA19-9</u> in Immunoassay Premium Plus Lot 1937EC does not meet the frozen stability claim and is therefore not suitable for freezing. Reconstituted, CA19-9 is stable for 7 days stored refrigerated at +2 - 8°C, if kept capped in original container and free from contamination.

IA3112 lot 1942EC

Please note that analyte <u>CA19-9</u> in Immunoassay Premium Plus Lot 1942EC does not meet the complete frozen stability claim and is therefore stable for 3 weeks frozen once stored at -20°C.

(OCC38148)



CAT. NO. IA3109 **GTIN:** 05055273207255 **SIZE:** $12 \times 5 \text{ ml}$ **CAT. NO.** IA3112 **GTIN:** 05055273207286 **SIZE:** $4 \times 5 \text{ ml}$

LOT NO. 1937EC **EXPIRY:** 2022-12-28

INTENDED USE

This product is intended for *in vitro* diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

For in vitro diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests.

However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

The Abbott Architect CA19-9 assay utilises an antibody/antigen system based on the I116-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 I116-NA-19-9 reactive determinants.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. CA19-9 is stable for 7 days at +2°C to +8°C. CA19-9 in this lot is NOT suitable for freezing. 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 $(+2^{\circ}\text{C to }+8^{\circ}\text{C})$. Stable to expiration date printed on individual vials. Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

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

MATERIALS PROVIDED

Immunoassay Premium Plus - Level 1: 12 x 5 ml Tri-Level: 4 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. 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.

EC REP

Randox Teoranta, Meenmore, Dungloe, Donegal, F94 TV06, Ireland 30 July '21 me





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

Cat. No. IA3109 / IA3112	No. IA3109 / IA3112 Lot No. 1937EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28				2-12-28
			Ra	nge	
Analyte	unit	Target	low	high	methods
Alpha-fetoprotein	KIU/I = IU/mI	8.83	7.06	10.6	Beckman Access / Access 2
	ng/ml	10.7	8.56	12.8	
	KIU/l = IU/ml	8.76	7.01	10.5	Beckman Dxl600/800
	ng/ml	10.6	8.48	12.7	
CA 15-3	U/ml	7.43	5.94	8.92	Beckman Access / Access 2
	U/ml	7.30	5.84	8.76	Beckman Dxl600/800
CA 19-9	U/ml	53.1	42.5	63.7	Beckman Access / Access 2
	U/ml	44.9	35.9	53.9	Beckman DxI600/800
CA125	U/ml	17.9	14.3	21.5	Beckman Access / Access 2
	U/ml	17.2	13.8	20.6	Beckman Dxl600/800
Carcinoembryonic	$ng/ml = \mu g/l$	4.52	3.62	5.42	Beckman Access / Access 2
Antigen (CEA)	ng/ml = μg/l	4.34	3.47	5.21	Beckman DxI600/800
Cortisol	nmol/l	180	135	225	Beckman Access / Access 2
	μg/dl	6.48	4.86	8.10	
	nmol/l	178	134	222	Beckman Dxl600/800
	μg/dl	6.41	4.81	8.01	
DHEA-S	μmol/l	2.29	1.83	2.75	Beckman Access / Access 2
	μg/dl	84.4	67.5	101	
	μmol/l	2.20	1.76	2.64	Beckman DxI600/800
	μg/dl	81.1	64.9	97.3	
Digoxin	nmol/l	0.838	0.670	1.01	Beckman Access / Access 2
	ng/ml	0.654	0.523	0.785	
	nmol/l	0.734	0.587	0.881	Beckman DxI600/800
	ng/ml	0.573	0.458	0.688	
Ferritin	$ng/ml = \mu g/l$	13.1	10.5	15.7	Beckman Access / Access 2
	ng/ml = μg/l	12.8	10.2	15.4	Beckman DxI600/800
Folate	nmol/l	3.53	2.68	4.38	Beckman Access / Access 2
	ng/ml	1.56	1.19	1.93	
	nmol/l	3.73	2.83	4.63	Beckman DxI600/800
	ng/ml	1.64	1.25	2.03	
Free T3	pmol/l	3.12	2.34	3.90	Beckman Access / Access 2
	ng/dl	0.203	0.152	0.254	
	pg/ml	2.03	1.52	2.54	
	pmol/l	3.13	2.35	3.91	Beckman DxI600/800
	ng/dl	0.203	0.152	0.254	
	pg/ml	2.04	1.53	2.55	
Free T4	pmol/l	9.37	7.03	11.7	Beckman Access / Access 2
	ng/dl	0.731	0.548	0.914	
	pg/ml	7.31	5.48	9.14	
	pmol/l	9.46	7.10	11.8	Beckman DxI600/800
	ng/dl	0.738	0.554	0.922	
	pg/ml	7.38	5.54	9.22	
FSH	mU/ml	6.90	5.52	8.28	Beckman Access / Access 2
	mU/ml	6.88	5.50	8.26	Beckman DxI600/800
Growth Hormone (GH)	μU/ml	3.64	2.91	4.37	Beckman Access / Access 2
	ng/ml	1.21	0.968	1.45	
	μU/ml	3.59	2.87	4.31	Beckman DxI600/800
	ng/ml	1.20	0.960	1.44	
Immunoglobulin E	KIU/I = IU/mI	TBC			Beckman Access / Access 2
	KIU/I = IU/mI	217	174	260	Beckman DxI600/800
Insulin	mU/I	0.823	0.617	1.03	Beckman Access / Access 2
	mU/I	0.780	0.585	0.975	Beckman DxI600/800
Luteinising Hormone (LH)	mU/ml	2.33	1.86	2.80	Beckman Access / Access 2
	mU/ml	2.26	1.81	2.71	Beckman DxI600/800





Cat. No. IA3109 / IA3112 L	ot No. 1937EC Size: 1	12 x 5ml / 4	x 5ml E	xpiry: 2022	2-12-28
				nge	
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	125	100	150	Beckman Access / Access 2
	pg/ml	34.0	27.2	40.8	
	pmol/l	135	108	162	Beckman Access / Access 2 Sensitive B84493
	pg/ml	36.7	29.4	44.0	
	pmol/l	123	98.4	148	Beckman DxI600/800
	pg/ml	33.5	26.8	40.2	
	pmol/l	128	102	154	Beckman DxI600/800 Sensitive B84493
	pg/ml	34.8	27.8	41.8	
Progesterone	nmol/l	3.08	2.46	3.70	Beckman Access / Access 2 Prog Cal 33555
	ng/ml	0.964	0.771	1.16	
	nmol/l	1.52	1.22	1.82	Beckman Access / Access 2 Prog DE Cal A80773
	ng/ml	0.476	0.381	0.571	
	nmol/l	2.71	2.17	3.25	Beckman DxI600/800 Prog Cal 33555
	ng/ml	0.848	0.678	1.02	
	nmol/l	1.64	1.31	1.97	Beckman DxI600/800 Prog DE Cal A80773
	ng/ml	0.513	0.410	0.616	
Prolactin	μU/ml	113	90.4	136	Beckman Access / Access 2
	μg/l	5.33	4.26	6.40	
	μU/ml	108	86.4	130	Beckman Dxl600/800
	μg/l	5.10	4.08	6.12	
PSA Free	ng/ml = μg/l	1.50	1.13	1.87	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = μg/l	1.48	1.11	1.85	Beckman Access / Access 2 standardised to WHC IRP96/670
	ng/ml = μg/l	1.39	1.04	1.74	Beckman DxI600/800 standardised to Hybritech
	ng/ml = μg/l	1.29	0.968	1.61	Beckman DxI600/800 standardised to WHO IRP96/670
PSA Total	ng/ml = μg/l	2.10	1.58	2.62	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = μg/l	2.06	1.55	2.57	Beckman Access / Access 2 standardised to WHO IRP96/670
	ng/ml = μg/l	2.05	1.54	2.56	Beckman Dxl600/800 standardised to Hybritech
	ng/ml = μg/l	1.71	1.28	2.14	Beckman Dxl600/800 standardised to WHO IRP96/670
SHBG	nmol/l	11.5	9.20	13.8	Beckman Access / Access 2
	nmol/l	11.7	9.36	14.0	Beckman DxI600/800
Testosterone	nmol/l	1.70	1.36	2.04	Beckman Access / Access 2
	ng/ml	0.490	0.392	0.588	
	ng/dl	49.0	39.2	58.8	
	nmol/l	1.55	1.24	1.86	Beckman DxI600/800
	ng/ml	0.446	0.357	0.535	
	ng/dl	44.6	35.7	53.5	
Thyroglobulin	ng/ml	1.51	1.13	1.89	Beckman Access / Access 2
	ng/ml	1.44	1.08	1.80	Beckman DxI600/800
Thyroid Stimulating Hormone	μU/ml = mlU/l	0.080	0.064	0.096	Beckman Access / Access 2 Fast TSH
	μU/ml = mlU/l	0.078	0.062	0.094	Beckman Access / Access 2 hyperTSH 3rd Generation
	μU/ml = mlU/l	0.074	0.059	0.089	Beckman DxI600/800
		0.076	0.061	0.091	Beckman DxI600/800 Fast TSH
	μU/ml = mlU/l	0.076	0.001	0.051	DECKINAN DXIDUU/000 FASL 13H
	μU/ml = mlU/l μU/ml = mlU/l	0.074	0.059	0.091	Beckman DxI600/800 Hyper TSH





Cat. No. IA3109 / IA3112	Lot No. 1937EC Size:	12 x 5ml / 4 x 5ml Expiry: 2022-1		xpiry: 2022	12-28	
			Ra	nge		
Analyte	unit	Target	low	high	methods	
Total Beta hCG	mU/ml = IU/l	10.2	8.16	12.2	Beckman Access / Access 2	
	IU/ml	0.010	0.008	0.012		
	mU/ml = IU/l	10.3	8.24	12.4	Beckman Access / Access 2 Total BhCG (5th IS)	
	IU/ml	0.010	0.008	0.012		
	mU/ml = IU/l	10.3	8.24	12.4	Beckman DxI600/800	
	IU/ml	0.010	0.008	0.012		
	mU/ml = IU/l	10.3	8.24	12.4	Beckman DxI600/800 Total BhCG (5th IS)	
	IU/ml	0.010	0.008	0.012		
Total T3	nmol/l	1.05	0.788	1.31	Beckman Access / Access 2	
	ng/ml	0.684	0.513	0.855		
	ng/dl	68.4	51.3	85.5		
	nmol/l	0.902	0.677	1.13	Beckman DxI600/800	
	ng/ml	0.587	0.440	0.734		
	ng/dl	58.7	44.0	73.4		
Total T4	nmol/l	21.6	16.2	27.0	Beckman Access / Access 2	
	μg/dl	1.68	1.26	2.10		
	ng/ml	16.8	12.6	21.0		
	nmol/l	16.9	12.7	21.1	Beckman DxI600/800	
	μg/dl	1.32	0.990	1.65		
	ng/ml	13.2	9.90	16.5		
Vitamin B12	pmol/l	86.8	69.4	104	Beckman Access / Access 2	
	pg/ml	118	94.4	142		
	pmol/l	86.2	69.0	103	Beckman DxI600/800	
	pg/ml	117	93.6	140		



CAT. NO. IA3110 **GTIN:** 05055273207262 **SIZE:** 12 x 5 ml **CAT. NO.** IA3112 **GTIN:** 05055273207286 **SIZE:** 4 x 5 ml

LOT NO. 1939EC **EXPIRY:** 2022-12-28

INTENDED USE

This product is intended for *in vitro* diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

For in vitro diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV I, 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 III6-NA-I9-9 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 III6-NA-I9-9 reactive determinants.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

UNOPENED: Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

- Carefullý 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

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. 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.

07 Oct 20 pq



Cat. No. IA3110 / IA3112	No. IA3110 / IA3112 Lot No. 1939EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28				2-12-28
			Ra	nge	
Analyte	unit	Target	low	high	methods
Alpha-fetoprotein	KIU/I = IU/mI	43.9	35.1	52.7	Beckman Access / Access 2
	ng/ml	53.1	42.5	63.7	
	KIU/I = IU/mI	41.3	33.0	49.6	Beckman DxI600/800
	ng/ml	50.0	40.0	60.0	
CA 15-3	U/ml	18.1	14.5	21.7	Beckman Access / Access 2
	U/ml	18.4	14.7	22.1	Beckman DxI600/800
CA 19-9	U/ml	82.2	65.8	98.6	Beckman Access / Access 2
	U/ml	70.8	56.6	85.0	Beckman DxI600/800
CA125	U/ml	70.1	56.1	84.1	Beckman Access / Access 2
	U/ml	67.9	54.3	81.5	Beckman Dxl600/800
Carcinoembryonic	$ng/ml = \mu g/l$	24.9	19.9	29.9	Beckman Access / Access 2
Antigen (CEA)	ng/ml = μg/l	23.3	18.6	28.0	Beckman DxI600/800
Cortisol	nmol/l	607	455	759	Beckman Access / Access 2
	μg/dl	21.9	16.4	27.4	
	nmol/l	558	419	697	Beckman DxI600/800
	μg/dl	20.1	15.1	25.1	
DHEA-S	μmol/l	12.2	9.76	14.6	Beckman Access / Access 2
	μg/dl	450	360	540	
	μmol/l	11.5	9.20	13.8	Beckman DxI600/800
	μg/dl	424	339	509	
Digoxin	nmol/l	3.00	2.40	3.60	Beckman Access / Access 2
	ng/ml	2.34	1.87	2.81	
	nmol/l	3.03	2.42	3.64	Beckman DxI600/800
	ng/ml	2.37	1.90	2.84	
Ferritin	ng/ml = μg/l	69.1	55.3	82.9	Beckman Access / Access 2
	ng/ml = μg/l	67.0	53.6	80.4	Beckman DxI600/800
Folate	nmol/l	9.37	7.12	11.6	Beckman Access / Access 2
	ng/ml	4.13	3.14	5.12	
	nmol/l	9.75	7.41	12.1	Beckman DxI600/800
	ng/ml	4.30	3.27	5.33	
Free T3	pmol/l	10.8	8.10	13.5	Beckman Access / Access 2
	ng/dl	0.702	0.527	0.877	
	pg/ml	7.03	5.27	8.79	
	pmol/l	9.47	7.10	11.8	Beckman DxI600/800
	ng/dl	0.616	0.462	0.770	
	pg/ml	6.16	4.62	7.70	
Free T4	pmol/l	22.5	16.9	28.1	Beckman Access / Access 2
	ng/dl	1.76	1.32	2.20	
	pg/ml	17.6	13.2	22.0	- 1 1000/000
	pmol/l	21.8	16.4	27.2	Beckman DxI600/800
	ng/dl	1.70	1.28	2.12	
	pg/ml	17.0	12.8	21.2	
FSH	mU/ml	31.1	24.9	37.3	Beckman Access / Access 2
Constitution (CV)	mU/ml	31.8	25.4	38.2	Beckman DxI600/800
Growth Hormone (GH)	μU/ml	15.3	12.2	18.4	Beckman Access / Access 2
	ng/ml	5.09	4.07	6.11	Pagliman DylC00/200
	μU/ml	14.4	11.5	17.3	Beckman DxI600/800
Immunoglabulia F	ng/ml	4.80	3.84	5.76	Pockman Access / Access 2
Immunoglobulin E	KIU/I = IU/ml	TBC			Beckman Access / Access 2
Inculin	KIU/I = IU/mI	TBC	12.0	20.0	Beckman DxI600/800
Insulin	mU/I mU/I	16.0	12.0	20.0	Beckman Access / Access 2
Lutainising Harmona /LU\	•	15.2	11.4	19.0	Beckman DxI600/800
Luteinising Hormone (LH)	mU/ml	25.7	20.6	30.8	Beckman Access / Access 2
	mU/ml	24.9	19.9	29.9	Beckman DxI600/800





Cat. No. IA3110 / IA3112 Lot N	No. 1939EC Size:	12 x 5ml / 4	x 5ml E	xpiry: 2022	2-12-28
,				nge	
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	1336	1069	1603	Beckman Access / Access 2
	pg/ml	363	290	436	
	pmol/l	1147	918	1376	Beckman Access / Access 2 Sensitive B84493
	pg/ml	312	250	374	
	pmol/l	1285	1028	1542	Beckman DxI600/800
	pg/ml	350	280	420	
	pmol/l	1079	863	1295	Beckman DxI600/800 Sensitive B84493
	pg/ml	293	234	352	
Progesterone	nmol/l	37.9	30.3	45.5	Beckman Access / Access 2 Prog Cal 33555
_	ng/ml	11.9	9.52	14.3	·
	nmol/l	32.7	26.2	39.2	Beckman Access / Access 2 Prog DE Cal A80773
	ng/ml	10.2	8.16	12.2	
	nmol/l	36.3	29.0	43.6	Beckman DxI600/800 Prog Cal 33555
	ng/ml	11.4	9.12	13.7	. •
	nmol/l	31.7	25.4	38.0	Beckman DxI600/800 Prog DE Cal A80773
	ng/ml	9.92	7.94	11.9	, 0
Prolactin	μU/ml	446	357	535	Beckman Access / Access 2
	μg/l	21.1	16.9	25.3	
	μU/ml	441	353	529	Beckman DxI600/800
	μg/l	20.8	16.6	25.0	,
PSA Free	ng/ml = μg/l	11.1	8.33	13.9	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = μg/l	11.0	8.25	13.8	Beckman Access / Access 2 standardised to WHO IRP96/670
	ng/ml = μg/l	10.5	7.88	13.1	Beckman Dxl600/800 standardised to Hybritech
	ng/ml = μg/l	8.95	6.71	11.2	Beckman DxI600/800 standardised to WHO IRP96/670
PSA Total	ng/ml = μg/l	16.5	12.4	20.6	Beckman Access / Access 2 standardised to Hybritech
	ng/ml = μg/l	16.4	12.3	20.5	Beckman Access / Access 2 standardised to WHO IRP96/670
	ng/ml = μg/l	16.2	12.2	20.2	Beckman Dxl600/800 standardised to Hybritech
	/ 1 //	42.5	0.20	45.6	Beckman DxI600/800 standardised to WHO
	ng/ml = μg/l	12.5	9.38	15.6	IRP96/670
SHBG	nmol/l	47.4	37.9	56.9	Beckman Access / Access 2
	nmol/l	46.6	37.3	55.9	Beckman DxI600/800
Testosterone	nmol/l	12.7	10.2	15.2	Beckman Access / Access 2
	ng/ml	3.66	2.93	4.39	
	ng/dl	366	293	439	
	nmol/l	11.5	9.20	13.8	Beckman DxI600/800
	ng/ml	3.31	2.65	3.97	
	ng/dl	331	265	397	
Thyroglobulin	ng/ml	29.4	22.1	36.7	Beckman Access / Access 2
	ng/ml	28.0	21.0	35.0	Beckman DxI600/800
Thyroid Stimulating Hormone	μU/ml = mlU/l	2.09	1.67	2.51	Beckman Access / Access 2 Fast TSH
	μU/ml = mlU/l	2.15	1.72	2.58	Beckman Access / Access 2 hyperTSH 3rd Generation
	μU/ml = mlU/l	2.09	1.67	2.51	Beckman DxI600/800
	$\mu U/ml = mlU/l$	2.05	1.64	2.46	Beckman DxI600/800 Fast TSH
	$\mu U/mI = mIU/I$	2.10	1.68	2.52	Beckman DxI600/800 Hyper TSH
	$\mu U/ml = mlU/l$	2.09	1.67	2.51	Beckman DxI600/800 Access (3rd IS)
	μο,		,		





Cat. No. IA3110 / IA3112	Lot No. 1939EC Size:	12 x 5ml / 4 x 5ml Expiry: 2022-1		xpiry: 2022	12-28	
			Ra	nge		
Analyte	unit	Target	low	high	methods	
Total Beta hCG	mU/ml = IU/l	14.7	11.8	17.6	Beckman Access / Access 2	
	IU/ml	0.015	0.012	0.018		
	mU/ml = IU/l	15.0	12.0	18.0	Beckman Access / Access 2 Total BhCG (5th IS)	
	IU/ml	0.015	0.012	0.018		
	mU/ml = IU/l	15.1	12.1	18.1	Beckman DxI600/800	
	IU/ml	0.015	0.012	0.018		
	mU/ml = IU/l	15.1	12.1	18.1	Beckman DxI600/800 Total BhCG (5th IS)	
	IU/ml	0.015	0.012	0.018		
Total T3	nmol/l	3.69	2.77	4.61	Beckman Access / Access 2	
	ng/ml	2.40	1.80	3.00		
	ng/dl	240	180	300		
	nmol/l	3.62	2.72	4.52	Beckman DxI600/800	
	ng/ml	2.36	1.77	2.95		
	ng/dl	236	177	295		
Total T4	nmol/l	113	84.8	141	Beckman Access / Access 2	
	μg/dl	8.81	6.61	11.0		
	ng/ml	88.1	66.1	110		
	nmol/l	107	80.3	134	Beckman DxI600/800	
	μg/dl	8.35	6.26	10.4		
	ng/ml	83.5	62.6	104		
Vitamin B12	pmol/l	373	298	448	Beckman Access / Access 2	
	pg/ml	505	404	606		
	pmol/l	356	285	427	Beckman DxI600/800	
	pg/ml	482	386	578		





CAT. NO. IA3111 **GTIN:** 05055273207279 **SIZE:** 12 x 5 ml **CAT. NO.** IA3112 **GTIN:** 05055273207286 **SIZE:** 4 x 5 ml

LOT NO. 1942EC **EXPIRY:** 2022-12-28

INTENDED USE

This product is intended for in vitro diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

For in vitro diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV I, 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 III6-NA-I9-9 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 III6-NA-I9-9 reactive determinants.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. CA19-9 is stable for 3 weeks when frozen once at -20°C. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

UNOPENED: Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials. Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

PREPARATION

Immunoassay Premium Plus is supplied 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.
- 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 3: 12 x 5 ml Tri-Level: 4 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. 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.

EC REP

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

Rev. 30 July '21 me





IMMUNOASSAY PREMIUM PLUS - LEVEL 3 (IA PREMIUM PLUS 3) Cat. No. IA3111 / IA3112 Lot No. 1942EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28 low high Analyte unit Target Alpha-fetoprotein KIU/I = IU/mI170 136 204 Beckman Access / Access 2 ng/ml 206 165 247 KIU/I = IU/mI161 129 193 Beckman DxI600/800 ng/ml 195 156 234 CA 15-3 U/ml 26.8 21.4 32.2 Beckman Access / Access 2 U/ml 27.8 33.4 Beckman DxI600/800 CA 19-9 U/ml 238 190 286 Beckman Access / Access 2 U/ml 200 160 240 Beckman DxI600/800 CA125 U/ml 161 129 193 Beckman Access / Access 2 U/ml 157 126 188 Beckman DxI600/800 Carcinoembryonic $ng/ml = \mu g/l$ 60.2 48.2 72.2 Beckman Access / Access 2 57.2 45.8 Beckman DxI600/800 Antigen (CEA) $ng/ml = \mu g/l$ 68.6 727 Cortisol nmol/l 969 1211 Beckman Access / Access 2 μg/dl 34.9 43.6 26.2 907 1134 Beckman DxI600/800 nmol/l 680 μg/dl 40.9 32.7 24.5 DHEA-S 17.5 14.0 21.0 Beckman Access / Access 2 µmol/l 645 516 774 μg/dl 17.5 14.0 21.0 Beckman DxI600/800 µmol/l 645 516 774 μg/dl 4.92 3.94 5.90 Beckman Access / Access 2 Digoxin nmol/ ng/ml 3.84 3.07 4.61 4.92 3.94 5.90 Beckman DxI600/800 nmol/l ng/ml 3.84 3.07 4.61 Ferritin 243 194 292 Beckman Access / Access 2 $ng/ml = \mu g/l$ Beckman DxI600/800 232 278 $ng/ml = \mu g/l$ 186 Folate 19.0 14.4 23.6 Beckman Access / Access 2 nmol/l ng/ml 8.38 6.37 10.4 Beckman DxI600/800 19.3 14.7 23.9 nmol/l ng/ml 8.51 6.47 10.6 Free T3 19.0 14.3 23.7 Beckman Access / Access 2 pmol/l 0.930 1.55 ng/dl 1.24 pg/ml 9.30 15.5 12.4 17.4 21.7 Beckman DxI600/800 pmol/l 13.1 ng/dl 1.13 0.848 1.41 8.48 pg/ml 11.3 14.1 Free T4 pmol/l 45.1 33.8 56.4 Beckman Access / Access 2 ng/dl 3.52 2.64 4.40 pg/ml 35.2 26.4 44.0 48.4 60.5 Beckman DxI600/800 pmol/l 36.3 ng/dl 3.78 2.84 4.72 pg/ml 37.8 28.4 47.2 FSH 62.3 49.8 74.8 Beckman Access / Access 2 mU/ml mU/ml 50.2 75.2 Beckman DxI600/800 62.7 Growth Hormone (GH) μU/ml 38.3 30.6 46.0 Beckman Access / Access 2 ng/ml 12.8 10.2 15.4 μU/ml 36.9 29.5 44.3 Beckman DxI600/800 ng/ml 12.3 9.84 14.8 Immunoglobulin E KIU/I = IU/mITBC Beckman Access / Access 2 KIU/I = IU/mITBC Beckman DxI600/800 Insulin mU/l 26.4 19.8 33.0 Beckman Access / Access 2 mU/l 25.1 18.8 31.4 Beckman DxI600/800 Luteinising Hormone (LH) mU/ml 39.2 31.4 47.0 Beckman Access / Access 2 mU/ml 38.2 30.6 45.8 Beckman DxI600/800





IMMUNOASSAY PREMIUM PLUS - LEVEL 3 (IA PREMIUM PLUS 3) Cat. No. IA3111 / IA3112 Lot No. 1942EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28 low high methods Analyte unit Target Oestradiol pmol/l 2394 1915 2873 Beckman Access / Access 2 pg/ml 651 521 781 pmol/ 1916 1533 2299 Beckman Access / Access 2 Sensitive B84493 pg/ml 521 417 625 pmol/l 2204 1763 2645 Beckman DxI600/800 pg/ml 599 479 719 Beckman DxI600/800 Sensitive B84493 pmol/l 1832 1466 2198 598 pg/ml 498 398 Progesterone nmol/l 100 80.0 120 Beckman Access / Access 2 Prog Cal 33555 ng/ml 25.0 37.6 31.3 Beckman Access / Access 2 Prog DE Cal A80773 nmol/ 101 80.8 121 25.3 37.9 ng/ml 31.6 Beckman DxI600/800 Prog Cal 33555 nmol/l 100 80.0 120 ng/ml 25.0 37.6 31.3 99.0 79.2 119 Beckman DxI600/800 Prog DE Cal A80773 nmol/l 37.2 24.8 ng/ml 31.0 Prolactin 879 703 1055 Beckman Access / Access 2 μU/ml μg/l 49.8 41.5 33.2 856 1027 Beckman DxI600/800 μU/ml 685 48.5 40.4 32.3 μg/l PSA Free Beckman Access / Access 2 standardised to 25.7 19.3 32.1 $ng/ml = \mu g/l$ Hybritech Beckman Access / Access 2 standardised to WHO $ng/ml = \mu g/l$ 29.0 21.8 36.2 IRP96/670 Beckman DxI600/800 standardised to Hybritech $ng/ml = \mu g/l$ 25.1 18.8 31.4 Beckman DxI600/800 standardised to WHO $ng/ml = \mu g/l$ 25.3 19.0 31.6 IRP96/670 PSA Total Beckman Access / Access 2 standardised to $ng/ml = \mu g/l$ 40.0 30.0 50.0 Hybritech Beckman Access / Access 2 standardised to WHO $ng/ml = \mu g/l$ 40.0 30.0 50.0 Beckman DxI600/800 standardised to Hybritech $ng/ml = \mu g/l$ 39.3 29.5 49.1 Beckman DxI600/800 standardised to WHO $ng/ml = \mu g/l$ 25.7 42.9 34.3 IRP96/670 SHBG 43.7 35.0 52.4 Beckman Access / Access 2 nmol/l 41.6 49.9 Beckman DxI600/800 nmol/l 33.3 Testosterone nmol/l 25.9 20.7 31.1 Beckman Access / Access 2 ng/ml 7.46 5.97 8.95 ng/dl 746 597 895 nmol/l 23.2 18.6 27.8 Beckman DxI600/800 ng/ml 6.68 5.34 8.02 ng/dl 668 534 802 Thyroglobulin ng/ml 52.4 39.3 65.5 Beckman Access / Access 2 ng/ml 50.1 37.6 62.6 Beckman DxI600/800 Thyroid Stimulating Hormone $\mu U/ml = mIU/l$ 18.8 15.0 22.6 Beckman Access / Access 2 Fast TSH Beckman Access / Access 2 hyperTSH 3rd 23.3 $\mu U/mI = mIU/I$ 19.4 15.5 Generation

 $\mu U/mI = mIU/I$

 $\mu U/mI = mIU/I$

 $\mu U/mI = mIU/I$

 $\mu U/mI = mIU/I$

19.0

19.4

18.7

19.0

15.2

15.5

15.0

15.2

22.8

23.3

22.4

22.8

Beckman DxI600/800

Beckman DxI600/800 Fast TSH

Beckman DxI600/800 Hyper TSH

Beckman DxI600/800 Access (3rd IS)





ng/ml

ng/dl

nmol/l

ng/ml

ng/dl

nmol/l μg/dl

ng/ml

nmol/l μg/dl

ng/ml

pmol/l pg/ml

pmol/l pg/ml

Total T4

Vitamin B12

IMMUNOASSAY PREMIUM PLUS - LEVEL 3 (IA PREMIUM PLUS 3) Cat. No. IA3111 / IA3112 Lot No. 1942EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28 Analyte unit **Target** low high methods mU/ml = IU/l Total Beta hCG 135 108 162 Beckman Access / Access 2 IU/ml 0.135 0.108 0.162 mU/mI = IU/I141 113 169 Beckman Access / Access 2 Total BhCG (5th IS) IU/ml 0.141 0.113 0.169 mU/mI = IU/I146 117 175 Beckman DxI600/800 IU/ml 0.146 0.117 0.175 Beckman DxI600/800 Total BhCG (5th IS) mU/mI = IU/I146 117 175 IU/ml 0.146 0.175 0.117 Total T3 7.61 nmol/l 6.09 4.57 Beckman Access / Access 2

2.97

297

4.46

2.90

290

137

10.7

107

134

10.5

105

527

714

514

697

4.95 495

7.42

4.84

484

227

17.7

177

224

17.5

175

791

1072

772

1045

Beckman DxI600/800

Beckman DxI600/800

Beckman DxI600/800

Beckman Access / Access 2

Beckman Access / Access 2

3.96

396

5.94

3.87

387

182

14.2

142

179

14.0

140

659

893

643

871