

## IMMUNOASSAY SPECIALITY I - LEVEL I (IA SPECIALITY I LEV I)

**CAT NO.** IAS3113                      **LOT NO.** 2420EC  
**SIZE** 5 x 2 ml                      **EXPIRY:** 2026-04-28  
**GTIN:** 05055273207293

### INTENDED USE

This product is intended for *in vitro* diagnostic use, in the quality control of the accuracy of Immunoassays on clinical chemistry systems. This material can be used to monitor the control of accuracy or the control of reproducibility of immunoassays.

### 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.

Health and Safety Data Sheets are available on request.

### STORAGE AND STABILITY

Unopened: Unreconstituted control is stable up to the expiry date shown on the side of each individual bottle.

Opened: Once reconstituted, the components of the control are stable for 5 days at +2°C to +8°C and 28 days at -20°C when frozen once. Except:

Analyte	+2°C to +8°C	Aliquoted and frozen once at -20°C
Anti-TG	3 days	-
C-Peptide	1 day	-
IGF-I	8 hours	-
Osteocalcin	4 hours	-
Parathyroid Hormone (PTH)	4 hours	14 days
Procalcitonin	1 day	-

Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

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

The Immunoassay Speciality I Control is supplied lyophilised.

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

### MATERIALS PROVIDED

Immunoassay Speciality I - Level I 5 x 2 ml

### MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

### VALUE ASSIGNMENT

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.

Each batch of Immunoassay Speciality I Control is submitted to a number of reference laboratories and values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. With each batch, a control range is provided for individual parameters and each parameter method. The control range is equivalent to the assigned mean  $\pm 2$  S.D.

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

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## IMMUNOASSAY SPECIALITY I - LEVEL 1 (IA SPECIALITY I LEV 1)

Cat. No. IAS3113 Lot. No. 2420EC

Size 5 x 2 ml Expiry 2026-04-28

Analyte	unit	Target	Range		methods
			low	high	
1-25 (OH) <sub>2</sub> Vitamin D	pmol/l	157	110	204	Diasorin Liaison XL
25-OH Vitamin D	nmol/l	52.7	39.5	65.9	Diasorin Liaison
	nmol/l	37.8	28.4	47.3	Abbott Architect (3L52)
	nmol/l	70.9	53.2	88.6	Siemens Centaur XP/XPT/Classic
	nmol/l	76.0	57.0	95.0	SNIBE Maglumi Analysers
	nmol/l	55.4	41.6	69.3	Vitros ECi
	nmol/l	49.9	37.4	62.4	BioMerieux Vidas
	nmol/l	41.4	31.1	51.8	Beckman Dxl 600/800
	nmol/l	37.5	28.1	46.9	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	54.8	41.1	68.5	Diasorin Liaison XL
	nmol/l	24.5	18.4	30.6	Roche Vitamin D Total II
	nmol/l	70.5	52.9	88.1	Siemens Atellica IM
	nmol/l	25.9	19.4	32.4	Roche Vitamin D Total II e801
	nmol/l	25.8	19.4	32.3	Roche Vitamin D Total III
Anti TG	kU/l	28.7	21.5	35.9	Siemens Immulite 2000/2500
	kU/l	46.8	35.1	58.5	Abbott Architect / Alinity
	kU/l	111	83.3	139	Roche Cobas 4000/E411
	kU/l	112	84.0	140	Roche Cobas e601/602
	kU/l	70.2	52.7	87.8	Beckman Dxl 600/800
	kU/l	46.1	34.6	57.6	Siemens Centaur XP/XPT/Classic
	kU/l	75.8	56.9	94.8	Beckman Access/LXi725
	kU/l	76.6	57.5	95.8	BioMerieux Vidas
	kU/l	49.2	36.9	61.5	Siemens Atellica IM
	kU/l	108	81.0	135	Roche Cobas e402/e801
	kU/l	50.7	38.0	63.4	Siemens Atellica IM aTgII
	kU/l	50.8	38.1	63.5	Siemens Centaur XP/XPT aTgII
	Anti TPO	kU/l	48.8	36.6	61.0
kU/l		51.1	38.3	63.9	Siemens Immulite 2000/2500
kU/l		28.0	21.0	35.0	Beckman Dxl 600/800
kU/l		196	147	245	Siemens Centaur XP/XPT/Classic
kU/l		46.0	34.5	57.5	BioMerieux Vidas
kU/l		29.7	22.3	37.1	Roche Cobas e402/e801
kU/l		186	140	233	Siemens Atellica IM
C-Peptide	nmol/l	0.342	0.257	0.428	Siemens Centaur XP/XPT/Classic
	ng/ml	1.03	0.776	1.28	
	nmol/l	0.459	0.344	0.574	Roche Cobas e601/602
	ng/ml	1.39	1.04	1.74	
	nmol/l	0.373	0.280	0.466	Abbott Architect / Alinity
	ng/ml	1.13	0.845	1.42	
	nmol/l	0.309	0.232	0.386	Siemens Immulite 2000/2500
	ng/ml	0.933	0.700	1.17	
	nmol/l	0.445	0.334	0.556	Roche Cobas 4000/E411
	ng/ml	1.34	1.01	1.67	

## IMMUNOASSAY SPECIALITY I - LEVEL 1 (IA SPECIALITY I LEV 1)

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Size 5 x 2 ml Expiry 2026-04-28

Analyte	unit	Target	Range		methods	
			low	high		
C-Peptide	nmol/l	0.492	0.369	0.615	Diasorin Liaison XL	
	ng/ml	1.49	1.11	1.87		
	nmol/l	0.436	0.327	0.545	Roche Cobas e402/e801	
	ng/ml	1.32	0.987	1.65		
	nmol/l	0.341	0.256	0.426	Siemens Atellica IM	
	ng/ml	1.03	0.773	1.29		
	IGF 1	µg/l	67.7	50.8	84.6	Siemens Immulite 2000/2500
		µg/l	29.0	21.8	36.3	Diasorin Liaison
µg/l		17.5	13.1	21.9	Roche Cobas 4000/E411	
µg/l		16.1	12.1	20.1	Roche Cobas 6000/8000	
µg/l		15.7	11.8	19.6	Roche Elecsys	
Insulin	mU/l	4.70	3.53	5.88	Abbott Architect	
	µU/ml	4.70	3.53	5.87		
	mU/l	4.99	3.74	6.24	Roche Cobas 6000/8000	
	µU/ml	4.99	3.74	6.24		
	mU/l	5.60	4.20	7.00	Siemens Centaur XP/XPT/Classic	
	µU/ml	5.60	4.20	7.00		
	mU/l	2.32	1.74	2.90	Siemens Immulite 2000	
	µU/ml	2.32	1.74	2.90		
	mU/l	4.51	3.38	5.64	Beckman Dxl 600/800	
	µU/ml	4.51	3.38	5.64		
	mU/l	5.33	4.00	6.66	Roche Cobas 4000/E411	
	µU/ml	5.33	4.00	6.66		
	mU/l	4.77	3.58	5.96	Diasorin Liaison XL	
	µU/ml	4.77	3.58	5.96		
Osteocalcin	mU/l	5.41	4.06	6.76	Siemens Atellica IM	
	µU/ml	5.41	4.06	6.76		
	mU/l	4.47	3.35	5.59	Abbott Alinity i	
µU/ml	4.47	3.35	5.59			
Osteocalcin	µg/l	15.2	11.4	19.0	Siemens Immulite 2000/2500	
	µg/l	29.1	21.8	36.4	Roche Cobas 6000/8000	
	µg/l	28.6	21.5	35.8	Roche Cobas 4000/E411	
Parathyroid Hormone (PTH)	pmol/l	5.53	4.15	6.91	Abbott Architect / Alinity	
	pg/ml	52.5	39.4	65.6		
	pmol/l	4.00	3.00	5.00	Beckman Dxl 600/800	
	pg/ml	38.0	28.5	47.5		
	pmol/l	3.98	2.99	4.98	Roche Cobas e601/602 PTH	
	pg/ml	37.8	28.4	47.2		
	pmol/l	4.42	3.32	5.53	Roche Cobas 4000/e411 PTH/PTH STAT	
	pg/ml	42.0	31.5	52.5		
	pmol/l	5.14	3.86	6.43	Siemens Centaur XP/XPT/Classic	
	pg/ml	48.8	36.7	60.9		
	pmol/l	4.30	3.23	5.38	Roche Cobas e601/602 PTH (1-84)	
pg/ml	40.8	30.7	50.9			
pmol/l	4.53	3.40	5.66	Roche Cobas 4000/E411 PTH (1-84)		
pg/ml	43.0	32.3	53.7			

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Size 5 x 2 ml Expiry 2026-04-28

Analyte	unit	Target	Range		methods
			low	high	
Parathyroid Hormone (PTH)	pmol/l	5.10	3.83	6.38	Siemens Atellica IM
	pg/ml	48.4	36.4	60.4	
	pmol/l	4.09	3.07	5.11	Roche Cobas e801 PTH
	pg/ml	38.8	29.2	48.4	
	pmol/l	4.41	3.31	5.51	Roche Cobas e801 PTH (1-84)
	pg/ml	41.9	31.4	52.4	
	pmol/l	3.96	2.97	4.95	Roche Cobas e801 PTH STAT
	pg/ml	37.6	28.2	47.0	
Procalcitonin	pmol/l	3.85	2.89	4.81	Roche Cobas e601/602 PTH STAT
	pg/ml	36.6	27.4	45.8	
	µg/l	0.890	0.668	1.11	Brahms Kryptor
	µg/l	2.64	1.98	3.30	BioMerieux Vidas
	µg/l	1.29	0.968	1.61	Roche Elecsys/Cobas/Modular
	µg/l	2.33	1.75	2.91	Siemens Centaur XP/XPT/Classic
	µg/l	2.38	1.79	2.98	Siemens Centaur CP 10378883
	µg/l	1.29	0.968	1.61	Abbott Architect / Alinity Brahms PCT
	µg/l	1.31	0.983	1.64	Roche Cobas e402/e801
	µg/l	2.33	1.75	2.91	Siemens Atellica IM 10995651
	µg/l	1.77	1.33	2.21	Beckman Access PCT
	µg/l	2.25	1.69	2.81	Siemens Centaur XP/XPT 11202697
µg/l	2.20	1.65	2.75	Siemens Centaur CP 11202697	
µg/l	2.30	1.73	2.88	Siemens Atellica IM 11202699	

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Unopened: Unreconstituted control is stable up to the expiry date shown on the side of each individual bottle.

Opened: Once reconstituted, the components of the control are stable for 5 days at +2°C to +8°C and 28 days at -20°C when frozen once. Except:

Analyte	+2°C to +8°C	Aliquoted and frozen once at -20°C
Anti-TG	3 days	-
C-Peptide	1 day	-
IGF-I	8 hours	-
Osteocalcin	4 hours	-
Parathyroid Hormone (PTH)	4 hours	14 days
Procalcitonin	1 day	-

Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

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.

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

### MATERIALS PROVIDED

Immunoassay Speciality I - Level I 5 x 2 ml

### MATERIAL REQUIRED BUT NOT PROVIDED

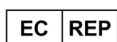
Volumetric pipette

### VALUE ASSIGNMENT

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.

Each batch of Immunoassay Speciality I Control is submitted to a number of reference laboratories and values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. With each batch, a control range is provided for individual parameters and each parameter method. The control range is equivalent to the assigned mean ±2 S.D.

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## IMMUNOASSAY SPECIALITY I LEVEL 1 (IA SPECIALITY I LEV 1)

Cat. No. IAS3113		Lot No. 2420EC		Size: 5 x 2ml		Expiry: 2026-04-28	
Analyte	unit	Target	Range		methods		
			low	high			
25-OH Vitamin D	nmol/l	53.3	40.0	66.6	Beckman Access / Access 2		
	nmol/l	41.4	31.1	51.8	Beckman Dxl600/800		
Anti TG	kU/l	75.8	56.9	94.8	Beckman Access / Access 2		
	kU/l	70.2	52.7	87.8	Beckman Dxl600/800		
Anti TPO	kU/l	24.94	18.7	31.2	Beckman Access / Access 2		
	kU/l	28.0	21.0	35.0	Beckman Dxl600/800		
C-Peptide	nmol/l	0.246	0.185	0.307	Beckman Access		
	ng/ml	0.743	0.557	0.929			
Insulin	mU/l	4.72	3.54	5.90	Beckman Access / Access 2		
	mU/l	4.51	3.38	5.64	Beckman Dxl600/800		
Parathyroid Hormone (PTH)	pmol/l	3.99	2.99	4.99	Beckman Access / Access 2		
	pg/ml	37.9	28.4	47.4			
	pmol/l	4.00	3.00	5.00	Beckman Dxl600/800		
	pg/ml	38.0	28.5	47.5			
Procalcitonin	µg/l	1.90	1.43	2.38	Beckman Access / Access 2		
	µg/l	1.77	1.33	2.21	Beckman Dxl600/800		