

ASSAYED URINE CONTROL - LEVEL 2 (URN ASY CONTROL 2)

CAT. NO. AU 2352 **LOT NO.** 1211UC

SIZE: 12 x 10 ml EXPIRY: 2026-04-28

GTIN: 05055273200539

INTENDED USE

This product is intended for *in vitro* diagnostic use, in the quality control of urine on clinical chemistry systems. The Assayed Urine Controls are for the control of accuracy.

DEVICE DESCRIPTION

The Urine Controls are supplied at 2 levels, level 2 and 3. Target values and ranges are supplied for the following analytes at both levels; amylase, calcium, chloride, copper, cortisol, creatinine, dopamine, epinephrine, glucose, 5-Hydroxyindoleacetic acid, magnesium, metanephrine, microalbumin, norepinephrine (noradrenalin), normetanephrine, osmolality, oxalate, phosphorous inorganic, potassium, total protein, sodium, urea, uric acid and vanillylmandelic acid (VMA).

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.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted urine is stable for 8 hours at +15°C to +25°C and 5 days at +2°C to +8°C if kept capped in original container and free from contamination, or 14 days at -20°C. No stability claims are made for copper. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

PREPARATION AND STABILITY OF SAMPLES FOR Catecholamines, VanillyImandelic Acid (VMA), Oxalate and 5-Hydroxyindole Acetic Acid (5-HIAA):

These analytes are unstable in urine samples and no claims are made on the stability. Samples should be prepared according to the standard procedures within each laboratory.

UNOPENED: Store refrigerated ($+2^{\circ}C$ to $+8^{\circ}C$). Stable to expiration date printed on individual vials.

PREPARATION FOR USE

The Assayed Urine Control is supplied lyophilised.

- Carefully reconstitute each vial of lyophilised urine with exactly 10 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

Assayed Urine Control - Level 2 12 x 10 ml

MATERIALS REQUIRED BUT NOT PROVIDED

Volumetric pipette



ASSIGNED VALUES

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 Assayed Urine Control is submitted to a number of external laboratories and values are assigned from a consensus of results obtained by these laboratories. 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 2SD.

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

The presence of a vertical bar in the margin indicates a technical update from the previous revision.

EC REP

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

Rev. 07 Feb '23 me

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ASSAYED URINE CONTROL LEVEL 2 (URN ASY CONTROL 2)

Cat. No. AU2352 Lot. No. 1211UC

Size 12 x 10ml Expiry 2026-04-28

Range									
Analyte	unit	Target	low	high	methods				
5-HIAA	µmol/l	31.4	25.1	37.7	HPLC				
Amylase	U/I	130	104	156	Vitros				
	U/I	232	186	278	Siemens - blocked pNPG7				
	U/I	232	186	278	Other blocked pNPG7				
	U/I	225	180	270	Randox Liquid Ethylidene pNPG7				
	U/I	200	160	240	Roche liquid pNPG7				
	U/I	208	166	250	Roche Integra 2-chloro-pNPG7				
	U/I	211	169	253	Beckman Coulter - blocked pNPG7				
	U/I	237	190	284	Other 2-chloro-pNPG3				
	U/I	244	195	293	Abbott Architect Non-IFCC Cal.				
	U/I	260	208	312	Abbott Architect IFCC Cal.				
Calcium	mmol/l	1.57	1.41	1.73	Vitros				
	mg/dl	6.29	5.65	6.93					
	mmol/l	1.55	1.40	1.71	Cresolphthalein complexone				
	mg/dl	6.21	5.61	6.81					
	mmol/l	1.52	1.37	1.67	Arsenazo III				
	mg/dl	6.09	5.49	6.69					
	mmol/l	1.55	1.40	1.71	NM-BAPTA				
	mg/dl	6.21	5.61	6.81					
Chloride	mmol/l	84.9	72.2	97.6	Vitros				
	mmol/l	81.0	68.9	93.2	ISE indirect				
	mmol/l	81.4	69.2	93.6	ISE direct				
Copper	µmol/l	1.36	1.09	1.63	Atomic absorption				
	µg/dl	8.65	6.93	10.4					
Cortisol	nmol/l	95.1	71.3	119	Chemiluminescence (+ solvent extraction.)				
	µg/dl	3.42	2.57	4.27					
Creatinine	mmol/l	6.78	5.42	8.14	Alkaline picrate no deproteinization				
	mg/dl	76.6	61.2	92.0					
	mmol/l	7.16	5.73	8.59	Creatinine PAP method				
	mg/dl	80.9	64.7	97.1					
	mmol/l	7.04	5.63	8.45	Enzymatic UV method				
	mg/dl	79.6	63.6	95.6					
	mmol/l	7.03	5.62	8.44	Other enzymatic methods				
	mg/dl	79.4	63.5	95.3					
	mmol/l	7.29	5.83	8.75	Roche Creatinine Plus				
	mg/dl	82.4	65.9	98.9					
	mmol/l	6.95	5.56	8.34	Jaffe rate blanked				
	mg/dl	78.5	62.8	94.2					
	mmol/l	6.92	5.54	8.30	Jaffe rate blanked comp. (-26 µmol/l)				
	mg/dl	78.2	62.6	93.8					
	mmol/l	7.19	5.75	8.63	Vitros IDMS Traceable				
	mg/dl	81.2	65.0	97.4					

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ASSAYED URINE CONTROL LEVEL 2 (URN ASY CONTROL 2)

Cat. No. AU2352 Lot. No. 1211UC Size 12 x 10ml Expiry 2026-04-28 Range Analyte unit methods Target low high Creatinine mmol/l 6.73 5.38 8.08 Jaffe rate blanked compensated (-18 µmol/l) mg/dl 76.0 60.8 91.2 8.33 **IDMS** traceable 6.94 5.55 mmol/l mg/dl 78.4 62.7 94.1 Dopamine HPLC nmol/l 561 449 673 Epinephrine nmol/l 76.1 60.9 91.3 HPLC Glucose 2.60 2.08 3.12 mmol/l Vitros mg/dl 46.9 37.5 56.3 2.72 2.18 3.26 Glucose oxidase mmol/l mg/dl 49.0 39.3 58.7 mmol/l 2.78 2.22 3.34 Hexokinase mg/dl 50.1 40.0 60.2 2.79 2.23 3.35 mmol/l Glucose dehydrogenase 40 2 60.4 mg/dl 50.3 Magnesium mmol/l 3.76 3.01 4.51 Vitros mg/dl 9.14 7.31 11.0 mmol/l 3.19 2.55 3.83 **Xylidyl Blue** mg/dl 7.75 6.20 9.30 3.13 2.50 3.76 Arsenazo III mmol/l mg/dl 7.61 6.08 9.14 2.59 3.89 Chlorphosphonazo III mmol/l 3.24 mg/dl 7.87 6.29 9.45 2.58 3.86 mmol/l 3.22 Enzymatic mg/dl 7.82 6.27 9.37 Metanephrine 0.216 0.324 HPLC µmol/l 0.270 36.8 Immunoturbidimetric Microalbumin mg/l 30.7 24.6 Norepinephrine nmol/l 243 194 292 HPLC HPLC Normetanephrine µmol/l 1.15 0.920 1.38 Osmolality mOsm/kg 390 312 468 Freezing point depression 387 310 464 Calculated mOsm/kg Oxalate mmol/l 0.108 0.086 0.130 Oxalate oxidase **Phosphate Inorganic** mmol/l 10.1 8.08 12.1 Vitros mg/dl 31.3 25.0 37.6 8.93 7.14 10.7 Phosphomolybdate UV mmol/l 27.7 33.3 mg/dl 22.1 mmol/l 8.98 7.18 10.8 Phosphomolybdate enzymatic mg/dl 33.3 27.8 22.3 Potassium mmol/l 30.2 25.7 34.7 Vitros mmol/l 31.3 26.6 36.0 ISE direct 29.9 25.4 34.4 ISE indirect mmol/l **Protein Total** g/l 0.123 0.098 0.148 **Biuret reaction - direct** mg/dl 12.3 9.80 14.8 123 98.0 148 mg/l 0.111 0.089 0.133 Turbidimetry g/l 11.1 8.90 13.3 mg/dl 111 89.0 133 mg/l

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ASSAYED URINE CONTROL LEVEL 2 (URN ASY CONTROL 2) Cat. No. AU2352 Lot. No. 1211UC Size 12 x 10ml Expire 2005 04 28

Cal. NO. A02332 LOL NO. 121100 3126 12 X 10111 LXPITY 2020-04-20									
Range									
Analyte	unit	Target	low	high	methods				
Protein Total	g/l	0.152	0.122	0.182	Pyrogallol Red				
	mg/dl	15.2	12.2	18.2					
	mg/l	152	122	182					
	g/l	0.191	0.153	0.229	Vitros				
	mg/dl	19.1	15.3	22.9					
	mg/l	191	153	229					
Sodium	mmol/l	63.6	56.0	71.2	Vitros				
	mmol/l	64.0	56.3	71.7	ISE direct				
	mmol/l	62.3	54.8	69.8	ISE indirect				
Urea	mmol/l	152	122	182	Vitros				
	mg/dl	914	733	1095					
	mmol/l	152	122	182	Urease kinetic				
	mg/dl	914	733	1095					
	mmol/l	153	122	184	Urease end point				
	mg/dl	920	733	1107					
Uric Acid (Urate)	mmol/l	0.701	0.561	0.841	Ortho Vitros Microslide Systems				
	mg/dl	11.8	9.42	14.2					
	mmol/l	0.712	0.570	0.854	Uricase peroxidase no ascorbate oxidase				
	mg/dl	12.0	9.58	14.4					
	mmol/l	0.682	0.546	0.818	Uricase Peroxidase with ascorbate oxidase @ 546nm				
	mg/dl	11.5	9.17	13.8					
	mmol/l	0.691	0.553	0.829	Uricase peroxidase with ascorbate oxidase				
	mg/dl	11.6	9.29	13.9					
VanillyImandelic Acid	µmol/l	34.4	27.5	41.3	Column test				
(VMA)	µmol/l	28.2	22.6	33.8	HPLC				