

HUMAN ASSAYED MULTI-SERA - LEVEL 2 (HUM ASY CONTROL 2)

CAT. NO. HN1530 **GTIN:** 05055273203783 **SIZE:** 20 x 5ml
CAT. NO. HS2611 **GTIN:** 05055273203813 **SIZE:** 5 x 5ml
LOT NO. 1593UN **EXPIRY:** 2026-01-28

INTENDED USE

This product is intended for in vitro diagnostic use, in the quality control of diagnostic assays. The Human Assayed Multi-sera is for the control of accuracy.

DEVICE DESCRIPTION

The Human Assayed Multi-sera is supplied at 2 levels, level 2 and 3. Target values and ranges are supplied for the analytes listed in the values section at both levels.

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 NONREACTIVE. 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 serum is stable for 8 hours at +15°C to +25°C or 7 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C. (See Limitations)

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

LIMITATIONS

For Total & Prostatic Acid Phosphatase, the material should be stabilised by adding 1 drop (25µl - 30µl) of 0.7M Acetic acid solution to 1ml of the serum exactly 30 minutes after reconstitution. After stabilisation Total and Prostatic Acid Phosphatase is stable for 2 hours at +15°C to +25°C, 2 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C.

Alkaline Phosphatase levels in the reconstituted serum will rise over the stability period. It is recommended that the reconstituted serum is allowed to stand for 1 hour at +15°C to +25°C before measurement.

Bilirubin in the serum is light sensitive and it is recommended that the serum is stored in the dark. Stored in the dark, it is stable for 4 days at +2°C to +8°C. Do not store at +15°C to +25°C. Do not freeze.

GLDH is stable for 2 days at 2-8°C.

NEFA is stable for 1 day at +2°C to +8°C.

Total PSA is stable for 4 days at +2°C to +8°C, or 28 days in aliquots frozen at -18°C to -24°C.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components.

Different lot numbers of this control should not be interchanged, as the values assigned to the controls vary from lot to lot.

The control should not be used as a calibration material.

Due to the zinc content in some batches of rubber stoppers, the QC and calibrator material should be aliquoted into polypropylene tubes and stored at +2°C to +8°C to ensure stable zinc levels throughout the stability period.

PREPARATION FOR USE

The Human Assayed Multi-sera is supplied lyophilised.

1. Carefully reconstitute each vial of lyophilised serum with exactly 5ml 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

Human Assayed Multi-sera - Level 2 20 x 5ml / 5 x 5ml

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 human serum is submitted to reference laboratories for assignment against international Reference Standards.

Where international Reference Standards are unavailable, Reference Methods are used. Values are also collected from approx. 3000 laboratories worldwide and using a unique statistical analysis, a value is assigned.

With each batch, a control range is provided for individual parameters and each parameter method. The control range is equivalent to the assigned mean ±2S.D.

If an instrument specific value is not available, refer to the Method section. If necessary, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email Technical.Services@randox.com.

NOTES

* All trademarks recognised.

(1) Applies only in Germany. Ranges established according to the Guidelines of the Federal Chamber of Physicians in Germany.

(2) Values established by reference laboratories officially recognised by the Federal Chamber of Physicians in Germany.

(3) DGKC: German Society for Clinical Chemistry.

(4) IFCC: International Federation of Clinical Chemistry.

(5) SCE: Scandinavian Committee on Enzymes.

METHOD HUMAN ASSAYED MULTI-SERA - LEVEL 2

Lot. No.	1593UN	EXPIRY:	2026-01-28	Cat. No.	HN1530 / HS2611			
Analyte	unit	Target	low	high	1SD	2SD	methods	
Albumin	g/dl	4.21	3.58	4.84	0.32	0.63	Bromocresol Green	
Alkaline Phosphatase	U/L	291	248	334	21.5	43	Diethanolamine buffer DEA 37°C	
ALT (GPT)	U/L	32	26	38	3	6	Tris buffer without P5P 37°C	
AST (GOT)	U/L	32	25	39	3.5	7	Tris buffer without P5P 37°C	
Amylase Total	U/L	94	80	108	7	14	pNP Maltotrioxide substrates 37°C	
Apolipoprotein A-1	mg/dl	121	99.2	143	10.9	21.8	Immunoturbidimetric	
Apolipoprotein B	mg/dl	66.9	54.9	78.9	6	12	Immunoturbidimetric	
Bilirubin Direct	mg/dl	1.21	0.95	1.47	0.13	0.26	Dichlorophenyl Diazonium (DPD)	
	mg/dl	1.22	0.96	1.48	0.13	0.26	Diazo with Dichloroaniline (DCA)	
Bilirubin Total	mg/dl	1.59	1.26	1.92	0.17	0.33	Dichlorophenyl Diazonium (DPD)	
	mg/dl	1.67	1.32	2.02	0.18	0.35	Diazo with Dichloroaniline (DCA)	
Calcium	mg/dl	8.7	7.82	9.58	0.44	0.88	Arsenazo III	
	mg/dl	8.58	7.74	9.42	0.42	0.84	Cresolphthalein complexone (CPC)	
Cholesterol	mg/dl	162	141	183	10.5	21	Cholesterol Oxidase	
Chloride	mmol/l	95.2	87.6	103	3.8	7.6	ISE direct	
CK Total	U/L	190	155	225	17.5	35	CK-NAC (IFCC) 37°C	
Copper	µg/dl	102	81.4	123	10.30	20.6	Colorimetric	
Creatinine	mg/dl	1.45	1.15	1.75	0.15	0.30	Jaffe rate blanked	
	mg/dl	1.42	1.14	1.70	0.14	0.28	Enzymatic UV method	
gamma-GT	U/L	46	39	53	3.5	7.0	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	
Glucose	mg/dl	114	97.3	131	8.35	16.7	Glucose oxidase	
HDL - Cholesterol	mg/dl	51.3	43.6	59.0	3.85	7.7	Direct Clearance Method	
Immunoglobulin A	mg/dl	207	155	259	26	52	Immunoturbidimetric	
Immunoglobulin G	mg/dl	713	585	841	64	128	Immunoturbidimetric	
Immunoglobulin M	mg/dl	110	88	132	11	22	Immunoturbidimetric	
Iron	µg/dl	109	89.4	129	9.8	19.6	Colorimetric without ppt.	
Lactate	mg/dl	14.5	11.9	17.1	1.3	2.6	Colorimetric Lactate Oxidase	
LD (LDH)	U/L	422	358	486	32	64	P->L German methods 37°C	
Lipase	U/L	34	28.0	40.0	3	6	Other Colorimetric 37°C	
Lithium	mmol/l	0.98	0.86	1.10	0.058	0.115	Ion selective electrode	
	mg/dl	0.677	0.596	0.758	0.04	0.08		
Magnesium	mg/dl	2.25	1.98	2.52	0.14	0.27	Xylidyl Blue	
NEFA	mmol/l	1.41	1.13	1.69	0.14	0.28	Colorimetric	
Phosphorus	mg/dl	4.56	3.88	5.24	0.34	0.68	Phosphomolybdate UV	
Potassium	mmol/l	3.83	3.52	4.14	0.16	0.31	ISE method - direct	
Sodium	mmol/l	139	132	146	3.5	7.0	ISE method - direct	
Protein Total	g/dl	5.96	4.76	7.16	0.60	1.20	Biuret reaction end point	
TIBC	µg/dl	250	198	302	26	52	Calculated from Transferrin	
Transferrin	mg/dl	200	160	240	20.0	40.0	Immunoturbidimetric	
Triglycerides	mg/dl	102	85.3	119	8.4	16.7	Lipase/GPO-PAP	
Uric Acid (Urate)	mg/dl	5.81	5.06	6.56	0.38	0.75	Uricase Peroxidase with ascorbate oxidase @ 546nm	
Urea	mg/dl	43.8	37.2	50.4	3.3	6.6	Urease kinetic	
	mg/dl	20.4	17.3	23.5	1.55	3.10	BUN	
Zinc	µg/dl	179	143	215	18	36	Colorimetric	