

CAT.NO. HE1532
LOT.NO. 1174UE

HUMAN ASSAYED MULTI-SERA - LEVEL 3
(HUM ASY CONTROL 3)

EXPIRY: 2024-06-28
SIZE: 20 x 5ml

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 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.

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 or 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. 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.

PREPARATION FOR USE

The Human Assayed Multi-sera is supplied lyophilised.

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

MATERIALS PROVIDED

Human Assayed Multi-sera - Level 3 20 x 5ml

ASSIGNED VALUES

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 $\pm 2S.D$. This results in an assayed serum with extremely accurate values, which may be confidently used by laboratories to ensure the accuracy of their methods. If an instrument specific value is not available, refer to the Mean of all Instruments section. If necessary, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email Technical.Services@randox.com.

MEAN OF ALL INSTRUMENT			ASSAYED HUMAN SERA 3 (HUMAN ASY CONTROL 3)				
Lot. No. 1174UE Cat. No. HE1532							
Size 20 x 5ml		Expiry 2024-06-28		Range			
Analyte	Unit	Target	Low	High	1SD	2SD	Methods
Acid Phosphatase (Total)	U/l	40.1	26.9	53.3	6.6	13.2	1-Naphthyl Phosphate Substrate Kinetic 37°C
Albumin	g/dl	3.07	2.61	3.53	0.23	0.46	Bromocresol Green
Alkaline Phosphatase	U/l	487	414	560	36.5	73	Diethanolamine buffer DEA 37°C(DGKC)
ALT(GPT)	U/l	143	115	171	14	28	Tris buffer without P5P 37°C
Amylase Total	U/l	285	242	328	21.5	43	pNP Maltotrioxide substrates 37°C (CNP3)
	U/l	301	256	346	22.5	45	Liquid Ethylidene pNPG7 37°C (EPSG7)
Apolipoprotein A-1	mg/dl	107	87.7	126	9.575	19.15	Immunoturbidimetric
Apolipoprotein B	mg/dl	50.6	41.5	59.7	4.55	9.1	Immunoturbidimetric
AST(GOT)	U/l	146	117	175	14.5	29	Tris buffer without P5P 37°C
Bilirubin Direct	mg/dl	1.5	1.19	1.81	0.16	0.31	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.67	1.32	2.02	0.175	0.35	Diazo with Sulphanilic Acid
	mg/dl	1.63	1.29	1.97	0.17	0.34	Diazo with Dichloroaniline (DCA)
Bilirubin Total	mg/dl	5.32	4.21	6.43	0.555	1.11	Diazo with Dichloroaniline (DCA)
	mg/dl	5.09	4.02	6.16	0.535	1.07	Diazo with Sulphanilic Acid
	mg/dl	4.73	3.74	5.72	0.495	0.99	Dichlorophenyl Diazonium (DPD)
Calcium	mg/dl	12.5	11.3	13.7	0.6	1.2	Cresolphthalein complexone (CPC)
	mg/dl	12.4	11.2	13.6	0.6	1.2	Arsenazo III
Chloride	mmol/l	113	104	122	4.5	9	Colorimetric
	mmol/l	112	103	121	4.5	9	ISE indirect
	mmol/l	113	104	122	4.5	9	ISE direct
Cholesterol	mg/dl	279	242	316	18.5	37	Cholesterol Oxidase
CK Total	U/l	504	413	595	45.5	91	CK-NAC (IFCC) 37°C
Copper	µg/dl	160	128	192	16	32	Colorimetric
Creatinine	mg/dl	4.19	3.36	5.02	0.415	0.83	Enzymatic UV method
	mg/dl	4.11	3.29	4.93	0.41	0.82	Jaffe rate blanked
D-3-Hydroxybutyrate	mmol/l	1.15	0.98	1.32	0.085	0.17	Tris buffer 100mmol pH 8.5
gamma-GT	U/l	168	143	193	12.5	25	Gamma glutamyl-3-carboxy-4-nitroanilide 37°C (SZASZ)
Glucose	mg/dl	281	240	322	20.5	41	Glucose oxidase
	mg/dl	101	86.1	116	7.45	14.9	Direct Clearance Method
HDL - Cholesterol	mg/dl	96.9	82.2	112	7.35	14.7	Direct precipitation
	mg/dl	101	86.1	116	7.45	14.9	Direct precipitation
Immunoglobulin A	mg/dl	162	122	202	20	40	Immunoturbidimetric
Immunoglobulin G	mg/dl	660	541	779	59.5	119	Immunoturbidimetric
Immunoglobulin M	mg/dl	71.9	57.5	86.3	7.2	14.4	Immunoturbidimetric
Iron	µg/dl	209	171	247	19	38	Colorimetric without ppt.
Lactate	mg/dl	50.3	41.3	59.3	4.5	9	Colorimetric Lactate Oxidase
LDH	U/l	706	600	812	53	106	P->L German methods 37°C (DGKC)
	U/l	63	51	75	6	12	Other Colorimetric 37°C
Lipase	U/l	83	66	100	8.5	17	Randox Colorimetric 37°C
	U/l	63	51	75	6	12	Other Colorimetric 37°C
Lithium	mmol/l	2.24	1.97	2.51	0.135	0.27	Ion selective electrode
Magnesium	mg/dl	4.03	3.55	4.51	0.24	0.48	Calmagite
	mg/dl	4.11	3.62	4.6	0.245	0.49	Xylidyl Blue
NEFA	mmol/l	0.53	0.45	0.61	0.04	0.08	Colorimetric
Phosphorus	mg/dl	6.98	5.95	8.01	0.515	1.03	Phosphomolybdate UV
Potassium	mmol/l	6	5.52	6.48	0.24	0.48	ISE method - direct
	mmol/l	6.07	5.58	6.56	0.245	0.49	ISE method - indirect
Protein Total	g/dl	4.56	3.65	5.47	0.455	0.91	Biuret reaction end point
Sodium	mmol/l	155	147	163	4	8	ISE method - direct
	mmol/l	157	149	165	4	8	ISE method - indirect
TIBC	µg/dl	241	191	291	25	50	Direct Colorimetric
Transferrin	mg/dl	165	132	198	16.5	33	Immunoturbidimetric
Triglycerides	mg/dl	275	231	319	22	44	Lipase/GPO-PAP no correction
Urea	mg/dl	118	100	136	9	18	Urease kinetic
	mg/dl	55.3	47	63.6	4.15	8.3	BUN
Uric Acid (Urate)	mg/dl	9.26	8.06	10.5	0.6	1.2	Uricase peroxidase no ascorbate oxidase (TOOS)
	mg/dl	9.16	7.96	10.4	0.6	1.2	Uricase Peroxidase with ascorbate oxidase@546nm(TBHBA)
Zinc	µmol/l	36.7	29.4	44	3.65	7.3	Colorimetric
	µg/dl	240	192	288	24	48	Colorimetric