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RANDOX

Randox Acusera Chemistry Controls Typical Values



Radox Acusera Chemistry Controls

Radox offer several different chemistry controls each covering an extensive range of general and special serum chemistry tests. Controls are available in liquid and lyophilised or assayed and unassayed formats to suit your laboratory's needs.

With 30 years experience in quality control consolidation, flexibility and most importantly performance is guaranteed.



“Revolutionising healthcare through continuously improving diagnostic solutions”

Liquid Chemistry Premium/Liquid Chemistry Premium Plus

- Liquid for ease of use
- Extensive analyte menu covering routine chemistries, proteins, immunoassays, cardiac markers, lipids, therapeutic drugs and electrophoresis
- High CRP levels in the liquid chemistry premium plus control eliminate the need to purchase separate controls
- Open vial stability of 7 days at +2-8°C

Description

Description	Size	Cat. No.
Liquid Chemistry Premium Level 2	12 x 5ml	LUN5048
Liquid Chemistry Premium Level 3	12 x 5ml	LUE5049
Liquid Chemistry Premium Plus Level 1	12 x 5ml	LUL5069
Liquid Chemistry Premium Plus Level 2	12 x 5ml	LUN5070
Liquid Chemistry Premium Plus Level 3	12 x 5ml	LUE5071
Liquid Chemistry Premium Plus Level 1	12 x 10ml	LUL5093
Liquid Chemistry Premium Plus Level 2	12 x 10ml	LUN5094
Liquid Chemistry Premium Plus Level 3	12 x 10ml	LUE5095

Analyte	Unit	Liquid Chemistry Premium		Liquid Chemistry Premium Plus		
		Level 2	Level 3	Level 1	Level 2	Level 3
		LUN5048	LUE5049	LUL5069/ LUL5093	LUN5070/ LUN5094	LUE5071/ LUE5095
Acid Phosphatase (Prostatic)	U/l	8.17	26.3	1.33	6.75	23.3
Acid Phosphatase (Total)	U/l	16.1	42.8	7.6	9.58	29.1
Albumin	g/l	39.8	28.2	21.6	36	57.8
Alkaline Phosphatase	U/l	301	486	53	193	419
Alpha-1-Acid Glycoprotein	g/l	0.47	0.41	0.25	0.51	0.76
Alpha-1-Antitrypsin	g/l	1.01	0.88	0.46	0.99	1.55
AFP	IU/ml	1.9	1.6	1.27	2.24	3.35
ALT	U/l	38	136	38	92	221
Amikacin	ug/ml	-	-	3.5	12.2	25.5
Amylase (Pancreatic)	U/l	89	269	35	123	309
Amylase (Total)	U/l	110	296	49	149	353
Apolipoprotein A1	g/l	1.02	1.12	0.65	1.16	1.77
Apolipoprotein B	g/l	0.63	0.58	0.4	0.64	0.9
AST	U/l	40	145	39	113	213
Beta-2-Microglobulin	mg/l	-	-	1.6	3.29	4.76
Bicarbonate	mmol/l	23.8	26.9	9.94	21.2	27.8
Bile Acids	umol/l	35	51.4	18.4	29.1	38.2
Bilirubin (Direct)	umol/l	21.9	28.4	9.2	20.6	28.5
Bilirubin (Total)	umol/l	26.7	80.7	18.4	55	75.7
CRP	mg/l	2.87	6.1	1.29	17.6	45.4
Ceruloplasmin	g/l	0.26	0.235	0.17	0.306	0.406
Caffeine	ug/ml	-	-	2.5	6.41	10.7
Calcium	mmol/l	2.31	2.93	1.73	2.3	3.06
Calcium (Ionised)	mmol/l	1.16	1.47	0.87	1.15	1.53
Carbamazepine	ug/ml	8.58	13.8	5.13	8.42	11.7
CEA	ng/ml	1.1	1	0.6	1	1.8
Chloride	mmol/l	94.1	110	80.6	103	123
Cholesterol	mmol/l	4.12	7.45	3.46	4.88	6.94
Cholinesterase	U/l	5565	4882	3335	6084	8788
CK (Total)	U/l	245	534	55	233	468
CK-MB	U/l	-	-	12	155	385
C3	g/l	0.91	0.86	0.63	1.3	1.56
C4	g/l	0.18	0.16	0.13	0.21	0.3

Liquid Chemistry Premium/Liquid Chemistry Premium Plus

Analyte	Unit	Liquid Chemistry Premium		Liquid Chemistry Premium Plus		
		Level 2 LUN5048	Level 3 LUE5049	Level 1 LUL5069 LUL5093	Level 2 LUN5070 LUN5094	Level 3 LUE5071/ LUE5095
Copper	umol/l	17	25	13.9	18.8	27.2
Cortisol	nmol/l	170	150	144	190	269
Creatinine	umol/l	131	300	80	138	293
D-3-Hydroxybutyrate	mmol/l	0.36	1.03	0.18	0.38	1.05
DHEA-Sulphate	umol/l	-	-	3.7	14.6	25.9
Digoxin	ng/ml	1.54	2.75	0.47	1.63	2.73
Ethanol	mg/dl	24.6	212	45.3	80.3	140
Ferritin	ng/ml	49.8	46.4	23.2	47.9	72.1
Folate	nmol/l	36.3	22.7	15.6	9.75	3.85
FT3	pmol/l	7	12	4.26	6.56	12.8
FT4	pmol/l	14	25	11.8	20.3	42.5
FSH	mIU/ml	-	-	8.1	13.7	18.8
Gentamicin	ug/ml	3.39	7.34	2.26	5.35	8.08
Gamma GT	U/l	64	206	31	78	192
GLDH	U/l	17	31	16	24	49
Glucose	mmol/l	5.7	13.5	2.77	7.16	18.8
Growth Hormone	uIU/ml	-	-	1.44	2.43	3
Haptoglobin	mg/dl	89.9	73.7	45.2	82.9	123
HBDH	U/l	212	408	20	83	175
HDL Cholesterol	mmol/l	1.31	3.37	1.57	2.24	3.39
hCG	mIU/ml	23	450	4.48	63.4	167
IgA	g/l	1.71	1.71	1.11	1.92	2.69
IgE	IU/ml	64.9	59.2	100	178	269
IgG	g/l	8.01	6.79	6.76	12.1	17
IgM	g/l	0.64	0.95	0.54	0.86	1.24
Iron	umol/l	21.3	33.9	14.9	27.6	38.3
Lactate	mmol/l	1.4	4.94	0.55	1.39	4.99
LAP	U/l	20	18	16	26	35
LDH	U/l	386	712	52	181	343
LDL Cholesterol	mmol/l	2.2	2.1	1.32	2.29	3.33
Lipase	U/l	74	112	24	60	128
Lp(a)	nmol/l	25.59	16.45	11.45	21.53	24.73
Lithium	mg/dl	0.63	1.16	0.29	0.56	0.95
LH	mIU/ml	-	-	4.8	12.8	17
Magnesium	mmol/l	0.98	1.63	0.46	0.91	1.62
Myoglobin	ng/ml	40.5	253	46.8	127	257
Osmolality	mOsm/kg	758	751	712	1200	1819
Paracetamol	mg/l	7.01	68.4	12.1	72.54	149.2
Phenobarbital	ug/ml	29.2	48.8	6.75	26.1	47.8
Phenytoin	ug/ml	12.2	14.6	6.01	10	16.2
Phosphate (Inorganic)	mmol/l	1.43	2.1	0.76	1.27	2.25
Potassium	mmol/l	4	5.98	2.62	4.13	6
Prealbumin	g/l	0.24	0.18	0.11	0.21	0.3
Progesterone	nmol/l	-	-	2.81	27.1	95.1
Prolactin	uIU/ml	140	130	91.1	267	423
Salicylate	mg/dl	8.74	14.5	5.38	20.6	45.3
PSA Total	µg/l	7	15	-	-	-
Sodium	mmol/l	139	154	114	147	179

Liquid Chemistry Premium/Liquid Chemistry Premium Plus



Analyte	Unit	Liquid Chemistry Premium		Liquid Chemistry Premium Plus		
		Level 2 LUN5048	Level 3 LUE5049	Level 1 LUL5069 LUL5093	Level 2 LUN5070 LUN5094	Level 3 LUE5071/ LUE5095
T Uptake	%U	-	-	37.6	33.87	32.55
Testosterone	nmol/l	-	-	1.75	11.1	21.9
Theophylline	ug/ml	5.15	20.9	5.24	12.8	23.8
TSH	mIU/l	1.5	14.7	0.96	4.23	10.8
T4	nmol/l	90	240	42	95.1	188
TIBC	umol/l	43.3	41.9	36.6	51.9	70
Transferrin	g/l	1.91	1.64	1.24	2.28	3.28
Triglycerides	mmol/l	0.94	2.47	1.42	2.38	3.64
T3	nmol/l	2.3	3	0.91	1.49	2.75
Total Protein	g/l	60.6	46.3	47.1	66.8	88.1
Troponin I	ng/ml	0.15	3.7	0.18	0.269	4.48
Troponin T	µg/l	0.01	0.23	0.057	1.068	1.528
Urea	mmol/l	7.42	17.4	2.91	9.61	18.6
Uric Acid	mmol/l	0.35	0.53	0.14	0.24	0.49
Valproic Acid	ug/ml	78.9	119	33	38.8	59.2
Vancomycin	ug/ml	14	25.3	2.9	10.1	20.7
Vitamin B12	pg/ml	280	407	618	680	656
Zinc	umol/l	34.4	34.7	13.7	26.9	42.3
Albumin (Electrophoresis)	%	63.6	58.2	41.1	47.6	53
Alpha-1-Globulin (Electrophoresis)	%	3.5	6	29.9	15.1	4.8
Alpha-2-Globulin (Electrophoresis)	%	8	8.6	6.5	8.3	9
beta-Globulin (Electrophoresis)	%	12.4	13.3	9.1	11.6	13.3
Gamma-Globulin (Electrophoresis)	%	12.5	14	13.4	17.4	20

Assayed Chemistry Premium Plus

- Lyophilised for enhanced stability
- True third party control
- Assayed target values and ranges provided for 69 analytes including routine chemistries, proteins, immunoassays, lipids, therapeutic drugs and electrophoresis
- Instrument specific values provided for up to 25 commonly used analysers
- Reconstituted stability of 7 days at +2-8°C or 4 weeks at -20°C

Description

Assayed Chemistry Premium Plus Level 2

Assayed Chemistry Premium Plus Level 3

Assayed Chemistry Premium Plus Level 2 & 3

Size

20 × 5ml

20 × 5ml

2 × 5 × 5ml

Cat. No.

HNI530

HEI532

HS2611

Analyte	Unit	Assayed Chemistry Premium Plus		Analyte	Unit	Assayed Chemistry Premium Plus	
		Level 2 HNI530	Level 3 HEI532			Level 2 HNI530	Level 3 HEI532
alpha-HBDH	U/L	256	463	IgM	g/l	0.84	0.81
Acid Phosphatase (non-prostatic)	U/L	6.09	3.66	Iron	µmol/l	19.7	36.9
Acid Phosphatase (prostatic)	U/L	7.41	28	Lactate	mmol/l	1.58	5.54
Acid Phosphatase (Total)	U/L	13.5	31.7	LAP	U/L	17	15
Albumin	g/l	41.6	29.4	LDH (Randox L>P)	U/L	232	418
Alkaline Phosphatase	U/L	282	480	Lipase (Colorimetric)	U/L	44	71
ALT (GPT)	U/L	38	133	Lipase (Turbidimetric)	U/L	207	415
Amylase Pancreatic	U/L	71	278	Lithium	mg/dl	0.674	1.35
Amylase Total	U/L	92	308	Magnesium	mmol/l	0.93	1.72
Apolipoprotein A-I	g/l	1.06	0.98	NEFA	mmol/l	1.8	0.83
Apolipoprotein B	g/l	0.58	0.55	Osmolality	mOsm/kg	307	385
AST (GOT)	U/L	36	150	Paracetamol	mg/l	11.5	85.1
Bicarbonate	mmol/l	15	18.8	Phosphate Inorganic	mmol/l	1.42	2.32
Bile Acids	µmol/l	23.8	45.7	Potassium	mmol/l	4.01	6.11
Bilirubin Direct	µmol/l	19.6	31.2	Protein Total	g/l	58.6	45.1
Bilirubin Total	µmol/l	27.9	85.1	PSA Total	ng/ml	9.1	24.8
Calcium	mmol/l	2.29	3.13	Salicylate	mg/dl	8.21	14.4
Chloride	mmol/l	97.4	112	Sodium	mmol/l	141	156
Cholesterol	mmol/l	4.05	7.25	Theophylline	µg/ml	5.14	23.1
Cholinesterase	U/L	5735	5220	TSH	µU/ml	1.47	1.13
CK Total	U/L	194	496	TIBC	µmol/l	43.1	42.9
Copper	µmol/l	16.3	27.3	Tobramycin	µg/ml	2.75	7.23
Cortisol	nmol/l	471	969	Total T3	nmol/l	2.67	4.48
Creatinine (Alkaline Picrate)	µmol/l	126	376	Total T4	nmol/l	77.9	181
Creatinine (Enzymatic)	µmol/l	132	397	Transferrin	g/l	2.03	1.82
D-3-Hydroxybutyrate	mmol/l	0.28	1.15	Triglycerides	mmol/l	1.06	2.91
Digoxin	ng/ml	1.56	2.69	Urea (Urease berthelot)	mmol/l	6.84	18.2
Folate	nmol/l	29	16	Urea (BUN)	mmol/l	7.31	19.3
Free T4	pmol/l	15.6	49.5	Uric Acid (Urate)	mmol/l	0.34	0.56
Gentamicin	µg/ml	3.47	9.01	Vitamin B12	pg/ml	551	214
gamma-GT	U/L	49	156	Zinc	µmol/l	20.7	37.3
GLDH	U/L	16	32	Albumin (electrophoresis)	%	63.7	57.2
Glucose	mmol/l	6.37	15.7	alpha-1-globulin (electrophoresis)	%	3.4	5.4
HDL Cholesterol				alpha-2-globulin	%	8.6	10.6
IgA	g/l	1.87	1.72	beta-globulin	%	12.7	14.4
IgG	g/l	6.68	6.07	gamma-globulin	%	11.8	12.4

Precision Chemistry Premium Plus

- Lyophilised for enhanced stability
- Extensive analyte menu covering 89 analytes including routine chemistries, proteins, immunoassays, cardiac markers, lipids, therapeutic drugs and electrophoresis
- Reconstituted stability of 7 days at +2-8°C or 4 weeks at -20°C

Description

Precision Chemistry Premium Plus Level 2

Precision Chemistry Premium Plus Level 3

Size

20 × 5ml

20 × 5ml

Cat. No.

UNI557

UEI558

Analyte	Unit	Precision Chemistry Premium Plus		Analyte	Unit	Precision Chemistry Premium Plus	
		Level 2	Level 3			Level 2	Level 3
		UNI557	UEI558			UNI557	UEI558
alpha-HBDH	U/L	206	405	Haptoglobin	g/l	0.83	0.7
Acid Phosphatase (prostatic)	U/L	9	24	hCG	mU/ml	25.8	391
Acid Phosphatase (Total)	U/L	15.7	43.8	IgA	g/l	1.87	1.7
Albumin	g/l	41.7	27	IgE	KIU/l	103	102
Alkaline Phosphatase	U/L	301	495	IgG	g/l	8.32	7.86
Alpha-I-Acid glycoprotein	g/l	0.51	0.47	IgM	g/l	0.71	0.8
Alpha-I-antitrypsin	g/l	1.03	0.95	Iron	µmol/l	19.3	36.3
Alphafetoprotein	IU/l	2.01	1.45	Lactate	mmol/l	1.45	5.43
ALT (GPT)	U/L	38	142	LAP	U/L	17	15
Amylase Pancreatic	U/L	74	282	LDH	U/L	402	754
Amylase Total	U/L	93	300	Lipase (Turbidimetric)	U/L	161	393
Apolipoprotein A-I	g/l	1.08	1.02	Lipase (Colorimetric)	U/L	41	74
Apolipoprotein B	g/l	0.71	0.7	Lithium	mg/dl	0.69	1.28
AST (GOT)	U/L	34	144	Magnesium	mmol/l	0.92	1.7
Bicarbonate	mmol/l	15.3	20.3	Myoglobin	ng/ml	46.6	264
Bile Acids	µmol/l	27.3	41.9	NEFA	mmol/l	1.45	0.81
Bilirubin Direct	µmol/l	21.7	32.2	Osmolality	mmol/kg	313	395
Bilirubin Total	µmol/l	33.2	91.9	Paracetamol	mg/l	7.9	85.8
C-Reactive Protein	mg/l	1.43	5.18	Phenobarbital	µmol/l	122	223
Ceruloplasmin	g/l	0.235	0.21	Phenytoin	µmol/l	59.4	74.1
Calcium	mmol/l	2.2	2.93	Phosphate Inorganic	mmol/l	1.46	2.2
Carbamazepine	µmol/l	33.8	63.5	Potassium	mmol/l	3.85	5.82
Carcinoembryonic Antigen (CEA)	ng/ml	1.15	0.88	Prealbumin	g/l	0.21	0.17
Chloride	mmol/l	98.7	107	Prolactin	µU/ml	176	157
Cholesterol	mmol/l	4.18	7.12	Protein Total	g/l	60.3	45.4
Cholinesterase	U/L	5277	4748	PSA Total	ng/ml	10.4	23.5
CK Total	U/L	211	561	Salicylate	mg/dl	6.21	12.2
Complement C3	g/l	0.88	0.78	Sodium	mmol/l	139	157
Complement C4	g/l	0.17	0.16	Theophylline	µg/ml	4.85	22.6
Copper	µmol/l	17.5	25.9	Thyroid Stimulating Hormone	µU/ml	1.42	16.4
Cortisol	nmol/l	478	417	Thyroxine (T4)	nmol/l	95.5	197
Creatinine (Alkaline Picrate)	µmol/l	127	288	TIBC	µmol/l	46.8	47.2
Creatinine (Enzymatic)	µmol/l	128	737	Tobramycin	µg/ml	2.7	6.7
D-3-Hydroxybutyrate	mmol/l	0.3	1.24	Transferrin	g/l	1.97	1.77
Digoxin	ng/ml	1.86	3.2	Triglycerides	mmol/l	1.06	2.85
Ferritin	ng/ml	43.2	37.7	Triiodothyronine (T3)	nmol/l	2.34	3.37
Folate	nmol/l	42.4	19.5	Troponin I	µg/l	0.25	3.34
Free T3	pmol/l	10.6	13.5	Urea	mmol/l	7.12	18.7
Free Thyroxine (FT4)	pmol/l	24.8	35.6	Uric Acid (urate)	mmol/l	0.337	0.541
Gentamicin	µg/ml	3.32	10.1	Valproic Acid	µmol/l	500	922
gamma-GT	U/L	49	190	Vancomycin	µmol/l	10.3	20.1
GLDH	U/L	18	36	Vitamin B12	pg/ml	598	213
Glucose	mmol/l	6.15	15.6	Zinc	µmol/l	29.6	35.8

Chemistry Premium

- Lyophilised for enhanced stability
- Assayed target values and ranges provided for 40 analytes including routine chemistries, lipids and proteins.
- Reconstituted stability of 7 days at +2-8°C or 4 weeks at -20°C

Description

Chemistry Premium Level 2
Chemistry Premium Level 3

Size

12 x 5ml
12 x 5ml

Cat. No.

HN5067
HE5068

Chemistry Premium				Chemistry Premium			
		Level 2	Level 3			Level 2	Level 3
Analyte	Unit	HN5067	HE5068	Analyte	Unit	HN5067	HE5068
alpha-HBDH	U/L	218	437	Immunoglobulin A	g/l	1.52	1.58
Acid Phosphatase (Prostatic)	U/L	11.1	25.4	Immunoglobulin G	g/l	6.06	5.81
Acid Phosphatase (Total)	U/L	15.4	37.2	Immunoglobulin M	g/l	0.73	0.71
Albumin	g/l	39.2	29.5	Iron	µmol/l	19	37.4
Alkaline Phosphatase	U/L	293	509	Lactate	mmol/l	1.45	5.13
ALT (GPT)	U/L	41	154	LAP	U/L	16	15
Amylase Pancreatic	U/L	73	280	LDH	U/L	393	740
Amylase Total	U/L	91	308	Lipase	U/L	44	101
AST (GOT)	U/L	43	152	Lithium	mg/dl	0.674	1.27
Bilirubin Direct	µmol/l	20	36.5	Magnesium	mmol/l	0.88	1.64
Bilirubin Total	µmol/l	28.4	87.2	Phosphate Inorganic	mmol/l	1.4	2.31
Calcium	mmol/l	2.19	2.99	Potassium	mmol/l	3.82	5.82
Chloride	mmol/l	93.4	109	Protein Total	g/l	57.1	46.7
Cholesterol	mmol/l	4.19	7.06	Sodium	mmol/l	139	163
Cholinesterase	U/L	5018	5210	TIBC	µmol/l	46.7	44
CK Total	U/L	210	522	Transferrin	g/l	1.9	1.8
Creatinine	µmol/l	127	351	Triglycerides	mmol/l	1.04	2.69
gamma-GT	U/L	48	173	UIBC	µmol/l	27.7	6.6
GLDH	U/L	16	31	Urea	mmol/l	7.12	20.2
Glucose	mmol/l	6.13	16	Uric Acid (Urate)	mmol/l	0.34	0.54

Note: All enzyme values determined at 37°C.
Typical values only. Variation may occur between lot numbers

RANDOX

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