

INFORMATION PRODUIT

Contrôle Chimie Titré Liquide Premium Plus – Niveau 1

Numéro de Catalogue: LAL4213

Numéro de Lotte: 306UL

La cible du contrôle et l'intervalle de confiance pour le Sodium, avec la méthode ISE indirecte, dans les sections Roche Cobas et de Mean of All Instruments ont été mises à jour.

Pour tout renseignement ou questions, veuillez contacter technical.services@randox.com.

Recall 439

CONTRÔLE CHIMIE TITRÉ LIQUIDE PREMIUM PLUS - NIVEAU I (LIQ CHEM ASY PREMIUM PLUS I)

N° CAT. LAL 4213

TAILLE : 12 x 5 ml

N° LOT 306UL

EXPIRATION : 2020-12-28

GTIN : 05055273209006

UTILISATION PRÉVUE

Ce produit est destiné à un usage diagnostique *in vitro*, dans le cadre du contrôle de qualité des tests diagnostiques. Le Contrôle chimie titré liquide premium plus est destiné au contrôle de la précision.

DESCRIPTION DU DISPOSITIF

Le Contrôle chimie titré liquide premium plus est fourni en 3 niveaux, les niveaux 1, 2 et 3. Les valeurs et intervalles cibles sont fournis pour les analytes mentionnés dans la section des valeurs pour les trois niveaux.

PRÉCAUTIONS LIÉES À LA SÉCURITÉ ET AVERTISSEMENTS

Pour diagnostic *in vitro* uniquement. Ne pas pipetter à la bouche. Suivre les précautions normales nécessaires à la manipulation des réactifs de laboratoire.

Le matériel d'origine humaine à partir duquel ce produit a été dérivé a été testé au niveau du donneur pour les anticorps du virus de l'immunodéficience humaine (VIH 1, VIH 2), les antigènes de surface de l'hépatite B (AgHBs) et les anticorps du virus de l'hépatite C (VHC) et s'est avéré NON RÉACTIF. Des méthodes approuvées par la FDA ont été utilisées pour réaliser ces tests. Cependant, vu qu'aucune méthode ne peut garantir complètement l'absence d'agents infectieux, ce matériel et tous les échantillons des patients doivent être manipulés comme s'ils étaient potentiellement infectieux et doivent être éliminés en conséquence.

Les fiches de données de santé et de sécurité sont disponibles sur demande.

CONSERVATION ET STABILITÉ

OUVERT : Conserver réfrigéré (+2 °C à +8 °C). Le sérum décongelé est stable pendant 7 jours entre +2 °C et +8 °C, avec les exceptions suivantes : La troponine T est stable pendant 3 jours entre +2 °C et +8 °C. Seule la quantité nécessaire de produit doit être prélevée. Après utilisation, tout produit résiduel NE DOIT PAS ÊTRE REPLACÉ dans le flacon d'origine.

NON OUVERT : Conserver congelé entre -20 °C et -70 °C. Stable jusqu'à la date d'expiration imprimée sur les flacons individuels (voir Limitations).

LIMITATIONS

Pour la phosphatase acide totale, le matériel doit être stabilisé en ajoutant 1 goutte (25 µl à 30 µl) de solution d'acide acétique 0,7 M à 1 ml de sérum après décongélation. Après stabilisation, la phosphatase acide totale est stable pendant 7 jours entre +2 °C et +8 °C. La bilirubine dans le sérum étant sensible à la lumière, il est recommandé de stocker le sérum à l'abri de la lumière.

Les valeurs de l'ALAT, de la phosphatase acide totale, de la phosphatase alcaline, de la bilirubine totale et directe et de la lipase peuvent diminuer progressivement pendant la durée de conservation du produit.

Une contamination bactérienne du sérum décongelé entraînera une diminution de la stabilité de nombreux composants.

Le contrôle ne doit pas être utilisé comme matériel de calibration.

PRÉPARATION

1. Laisser le contrôle se décongeler à température ambiante (+15 °C à +25 °C) jusqu'à décongélation complète. Remuer le contenu pour s'assurer de son homogénéité.
2. Se référer à la section Contrôle de l'application de l'analyseur individuel.
3. Réfrigérer tout matériel non utilisé. Avant de réutiliser, mélanger soigneusement le contenu.

MATÉRIEL FOURNI

Contrôle chimie titré liquide premium plus - Niveau I 12 x 5 ml

MATÉRIEL NÉCESSAIRE MAIS NON FOURNI

Aucun.

VALEURS ATTRIBUÉES

Chaque lot de sérum est soumis à plusieurs laboratoires externes. Les valeurs sont attribuées à partir d'un consensus des résultats obtenus par ces laboratoires et des tests internes réalisés à Randox Laboratories Ltd. Avec chaque lot, un intervalle de contrôle est fourni pour les paramètres individuels et chaque méthode de paramètre.

Si une valeur spécifique à un instrument n'est pas disponible, se référer à la section Moyenne de tous les instruments. Si nécessaire, contacter Randox Laboratories - Services techniques clients, Irlande du Nord, Tél. : +44 (0) 28 9445 1070 ou e-mail Technical.Services@randox.com

Rév. 29 Jan. 20 bm

Beckman Coulter AU Series® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Albumin	g/l	23.1	19.6	26.6	1.75	3.50	Bromocresol Green
	g/dl	2.31	1.96	2.66	0.18	0.35	
Alkaline Phosphatase	U/l	24	20	28	2.00	4.00	AMP optimised to IFCC 37°C
ALT (GPT)	U/l	35	28	42	3.50	7.00	Tris buffer without P5P 37°C
Amylase Total	U/l	55	47	63	4.00	8.00	Beckman Coulter - blocked pNPG7 37°C
AST (GOT)	U/l	41	33	49	4.00	8.00	Tris buffer without P5P 37°C
Bicarbonate	mmol/l	11.7	9.28	14.1	1.21	2.42	Enzymatic
Bilirubin Direct	µmol/l	11.1	8.77	13.4	1.17	2.33	Dichlorophenyl Diazonium (DPD)
	mg/dl	0.649	0.513	0.785	0.07	0.14	
Bilirubin Total	µmol/l	20.2	16.0	24.4	2.10	4.20	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.18	0.936	1.42	0.12	0.24	
Calcium	mmol/l	1.72	1.55	1.89	0.09	0.17	Arsenazo III
	mg/dl	6.89	6.21	7.57	0.34	0.68	
	mmol/l	1.68	1.51	1.85	0.09	0.17	Cresolphthalein complexone
mg/dl	6.73	6.05	7.41	0.34	0.68		
Chloride	mmol/l	81.6	75.1	88.1	3.25	6.50	ISE indirect
Cholesterol	mmol/l	3.60	3.13	4.07	0.24	0.47	Cholesterol Oxidase
	mg/dl	139	121	157	9.00	18.00	
CK Total	U/l	58	48	68	5.00	10.00	CK-NAC (IFCC) 37°C
Creatinine	µmol/l	53.8	43.0	64.6	5.40	10.80	Jaffe rate blanked
	mg/dl	0.608	0.486	0.730	0.06	0.12	

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Size: 12 x 5 ml Expiry: 2020-12-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
gamma-GT	U/l	30	26	34	2.00	4.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	3.12	2.65	3.59	0.24	0.47	Hexokinase
	mg/dl	56.2	47.8	64.6	4.20	8.40	
Iron	µmol/l	15.1	12.4	17.8	1.35	2.70	Colorimetric without ppt.
	µg/dl	84.4	69.3	99.5	7.55	15.10	
LD (LDH)	U/l	58	49	67	4.50	9.00	L->P IFCC 37°C
Magnesium	mmol/l	0.49	0.43	0.55	0.03	0.06	Xylidyl Blue
	mg/dl	1.19	1.05	1.33	0.07	0.14	
Phosphate Inorganic	mmol/l	0.77	0.65	0.88	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.38	2.03	2.73	0.18	0.35	
Potassium	mmol/l	2.51	2.31	2.71	0.10	0.20	ISE indirect
Protein Total	g/l	39.2	31.4	47.0	3.90	7.80	Biuret reaction end point
	g/dl	3.92	3.14	4.70	0.39	0.78	
Sodium	mmol/l	110	105	115	2.50	5.00	ISE indirect
Triglycerides	mmol/l	1.70	1.43	1.97	0.14	0.27	Lipase/GPO-PAP no correction
	mg/dl	150	127	173	11.50	23.00	
Urea	mmol/l	2.86	2.43	3.29	0.22	0.43	Urease kinetic
	mg/dl	17.2	14.6	19.8	1.30	2.60	
	mmol/l	2.86	2.43	3.29	0.22	0.43	BUN
	mg/dl	8.00	6.80	9.20	0.60	1.20	
Uric Acid (Urate)	mmol/l	0.15	0.13	0.17	0.01	0.02	Uricase peroxidase with ascorbate oxidase
	mg/dl	2.49	2.17	2.81	0.16	0.32	

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Acid Phosphatase (Total)	U/l	6.07	4.07	8.07	1.00	2.00	1-Naphthyl Phosphate substrate Kinetic 37°C
Albumin	g/l	24.5	20.8	28.2	1.85	3.70	Bromocresol Green
	g/dl	2.45	2.08	2.82	0.19	0.37	
	g/l	24.6	20.9	28.3	1.85	3.70	Bromocresol Purple
	g/dl	2.46	2.09	2.83	0.19	0.37	
Alkaline Phosphatase	U/l	22	19	25	1.50	3.00	AMP optimised to IFCC 37°C
	U/l	17	15	19	1.00	2.00	AMP optimised to IFCC 30°C
	U/l	14	12	16	1.00	2.00	AMP optimised to IFCC 25°C
	U/l	59	50	68	4.50	9.00	Diethanolamine buffer DEA 37°C
	U/l	46	39	53	3.50	7.00	Diethanolamine buffer DEA 30°C
	U/l	38	32	44	3.00	6.00	Diethanolamine buffer DEA 25°C
	U/l	38	32	44	3.00	6.00	Diethanolamine buffer DEA 25°C
Alpha-1-Acid Glycoprotein	g/l	0.37	0.30	0.45	0.04	0.08	Immunoturbidimetric
	mg/dl	37.3	29.8	44.8	3.75	7.50	
Alpha-1-Antitrypsin	g/l	0.57	0.45	0.68	0.06	0.11	Immunoturbidimetric
	mg/dl	56.6	45.3	67.9	5.65	11.30	
Alphafoetoprotein	KIU/l =	1.02	0.82	1.22	0.10	0.20	Roche Cobas 6000/8000
	ng/ml	1.23	0.987	1.47	0.12	0.24	
ALT (GPT)	U/l	36	29	43	3.50	7.00	Tris buffer without P5P 37°C
	U/l	27	21	33	3.00	6.00	Tris buffer without P5P 30°C
	U/l	20	16	24	2.00	4.00	Tris buffer without P5P 25°C
	U/l	45	36	54	4.50	9.00	Tris buffer with P5P 37°C
	U/l	33	27	39	3.00	6.00	Tris buffer with P5P 30°C
	U/l	25	20	30	2.50	5.00	Tris buffer with P5P 25°C

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Amikacin	µmol/l	6.83	5.46	8.20	0.69	1.37	Gravimetric
	µg/ml	4.00	3.20	4.80	0.40	0.80	
Amylase Pancreatic	U/l	33	28	38	2.50	5.00	Immunoinhibition EPS substrate 37°C
	U/l	35	30	40	2.50	5.00	Randox Liquid Ethylidene pNPG7 37°C
Amylase Total	U/l	51	43	59	4.00	8.00	Roche liquid stable pNPG7 37°C
	U/l	55	47	63	4.00	8.00	Beckman Coulter - blocked pNPG7 37°C
	U/l	53	45	61	4.00	8.00	Siemens - blocked pNPG7 37°C
	U/l	53	45	61	4.00	8.00	Siemens 2-chloro-pNPG3 37°C
	U/l	54	46	62	4.00	8.00	Randox Liquid Ethylidene pNPG7 37°C
	U/l	42	36	48	3.00	6.00	Randox Lyo. Ethylidene pNPG7 37°C
Apolipoprotein A-1	g/l	0.80	0.65	0.94	0.07	0.14	Immunoturbidimetric
	mg/dl	79.8	65.4	94.2	7.20	14.40	
Apolipoprotein B	g/l	0.51	0.42	0.60	0.05	0.09	Immunoturbidimetric
	mg/dl	50.8	41.7	59.9	4.55	9.10	
AST (GOT)	U/l	39	31	47	4.00	8.00	Tris buffer without P5P 37°C
	U/l	26	21	31	2.50	5.00	Tris buffer without P5P 30°C
	U/l	19	15	23	2.00	4.00	Tris buffer without P5P 25°C
	U/l	50	40	60	5.00	10.00	Tris buffer with P5P 37°C
	U/l	34	27	41	3.50	7.00	Tris buffer with P5P 30°C
	U/l	24	19	29	2.50	5.00	Tris buffer with P5P 25°C
Beta-2-microglobulin	µg/ml =	1.69	1.35	2.03	0.17	0.34	Immunoturbidimetric
Bicarbonate	mmol/l	12.9	10.2	15.6	1.35	2.70	Enzymatic
Bile Acids	µmol/l	17.5	14.0	21.0	1.75	3.50	5th Generation Colorimetric

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Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Bile Acids	µmol/l	14.8	11.8	17.8	1.50	3.00	4th Generation Colorimetric
Bilirubin Direct	µmol/l	11.6	9.16	14.0	1.22	2.44	Dichlorophenyl Diazonium (DPD)
	mg/dl	0.679	0.536	0.822	0.07	0.14	
	µmol/l	12.1	9.59	14.7	1.28	2.55	Diazo with Sulphanilic Acid
	mg/dl	0.710	0.561	0.859	0.07	0.15	
	µmol/l	10.6	8.37	12.8	1.12	2.23	Oxidation to Biliverdin/Vanadate
	mg/dl	0.620	0.490	0.750	0.07	0.13	
µmol/l	8.87	7.01	10.7	0.93	1.86	Modified Jendrassik	
mg/dl	0.519	0.410	0.628	0.05	0.11		
Bilirubin Total	µmol/l	18.9	14.9	22.9	2.00	4.00	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.11	0.872	1.35	0.12	0.24	
	µmol/l	18.9	14.9	22.9	2.00	4.00	Diazo with Sulphanilic Acid
	mg/dl	1.11	0.872	1.35	0.12	0.24	
	µmol/l	19.5	15.4	23.6	2.05	4.10	Oxidation to Biliverdin/Vanadate
	mg/dl	1.14	0.901	1.38	0.12	0.24	
µmol/l	19.2	15.2	23.2	2.00	4.00	Diazo with Dichloroaniline (DCA)	
mg/dl	1.12	0.889	1.35	0.12	0.23		
µmol/l	20.5	16.2	24.8	2.15	4.30	Modified Jendrassik	
mg/dl	1.20	0.948	1.45	0.13	0.25		
C-Reactive Protein	mg/l	3.34	2.67	4.01	0.34	0.67	Immunoturbidimetric
Caeruloplasmin	g/l	0.186	0.140	0.232	0.02	0.05	Immunoturbidimetric
	mg/dl	18.6	14.0	23.2	2.30	4.60	
Caffeine	µmol/l	14.9	11.2	18.6	1.85	3.70	Gravimetric
	µg/ml	2.89	2.17	3.61	0.36	0.72	
Calcium	mmol/l	1.67	1.50	1.84	0.09	0.17	NM-BAPTA
	mg/dl	6.69	6.01	7.37	0.34	0.68	

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Calcium	mmol/l	1.79	1.61	1.97	0.09	0.18	Arsenazo III
	mg/dl	7.17	6.45	7.89	0.36	0.72	
	mmol/l	1.70	1.53	1.87	0.09	0.17	Cresolphthalein complexone
	mg/dl	6.81	6.13	7.49	0.34	0.68	
Carbamazepine	µmol/l	18.5	14.8	22.2	1.85	3.69	Immunoturbidimetric
	µg/ml	4.37	3.50	5.24	0.44	0.87	
	µmol/l	21.2	17.0	25.4	2.10	4.20	Gravimetric
	µg/ml	5.01	4.02	6.00	0.50	0.99	
Carcinoembryonic Antigen (CEA)	ng/ml =	0.45	0.36	0.54	0.04	0.09	Roche Cobas E411
Chloride	mmol/l	77.6	71.4	83.8	3.10	6.20	ISE indirect
	mmol/l	76.8	70.7	82.9	3.05	6.10	ISE direct
	mmol/l	82.7	76.1	89.3	3.30	6.60	Colorimetric
Cholesterol	mmol/l	3.57	3.11	4.03	0.23	0.46	Cholesterol Oxidase
	mg/dl	138	120	156	9.00	18.00	
Cholinesterase	U/l	3663	2930	4396	366.50	733.00	Colorimetric Butyrylthiocholine 37°C
CK Total	U/l	58	48	68	5.00	10.00	CK-NAC (IFCC) 37°C
	U/l	36	30	42	3.00	6.00	CK-NAC (IFCC) 30°C
	U/l	25	20	30	2.50	5.00	CK-NAC (IFCC) 25°C
	U/l	59	48	70	5.50	11.00	CK-NAC substrate start (DGKC) 37°C
	U/l	37	30	44	3.50	7.00	CK-NAC substrate start (DGKC) 30°C
	U/l	25	20	30	2.50	5.00	CK-NAC substrate start (DGKC) 25°C
Complement C3	g/l	0.62	0.50	0.75	0.06	0.12	Immunoturbidimetric
	mg/dl	62.1	49.7	74.5	6.20	12.40	
Complement C4	g/l	0.13	0.10	0.15	0.01	0.03	Immunoturbidimetric
	mg/dl	12.7	10.2	15.2	1.25	2.50	

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Cat. No. LAL4213 Lot No. 306UL

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Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Copper	µmol/l	14.6	11.7	17.5	1.45	2.90	Colorimetric
	µg/dl	92.9	74.4	111	9.25	18.50	
Cortisol	nmol/l	210	158	262	26.00	52.00	Roche Cobas E411
	µg/dl	7.56	5.69	9.43	0.94	1.87	
Creatinine	µmol/l	83.9	67.1	101	8.40	16.80	Jaffe rate blanked comp. (-26 µmol/l)
	mg/dl	0.948	0.758	1.14	0.10	0.19	
	µmol/l	71.4	57.1	85.7	7.15	14.30	Alkaline picrate no deproteinization
	mg/dl	0.807	0.645	0.969	0.08	0.16	
	µmol/l	52.5	42.0	63.0	5.25	10.50	Enzymatic UV method
	mg/dl	0.593	0.475	0.711	0.06	0.12	
	µmol/l	58.9	47.1	70.7	5.90	11.80	Roche Creatinine Plus
	mg/dl	0.666	0.532	0.800	0.07	0.13	
	µmol/l	53.8	43.0	64.6	5.40	10.80	Jaffe rate blanked
	mg/dl	0.608	0.486	0.730	0.06	0.12	
D-3-Hydroxybutyrate	mmol/l	0.19	0.16	0.22	0.01	0.03	Tris buffer 100mmol pH 8.5
DHEA-S	µmol/l	2.24	1.79	2.69	0.23	0.45	Siemens Immulite 2000
Digoxin	nmol/l	1.03	0.82	1.24	0.10	0.21	Enzyme Immunoassay
	ng/ml	0.804	0.644	0.964	0.08	0.16	
	nmol/l	0.95	0.76	1.15	0.10	0.19	Immunoturbidimetric
	ng/ml	0.745	0.596	0.894	0.07	0.15	
	nmol/l	1.02	0.82	1.22	0.10	0.20	
ng/ml	0.797	0.637	0.957	0.08	0.16	Gravimetric	
Ethanol	mg/dl	50.9	40.7	61.0	5.08	10.15	Enzyme Immunoassay
Ferritin	ng/ml =	28.9	23.1	34.7	2.90	5.80	Immunoturbidimetric

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Folate	nmol/l	5.01	3.81	6.21	0.60	1.20	Roche Cobas E411
	ng/ml	2.21	1.68	2.74	0.27	0.53	
Free T3	pmol/l	5.73	4.30	7.16	0.72	1.43	Roche Cobas E411
	ng/dl	0.372	0.280	0.464	0.05	0.09	Roche Cobas E411
	pg/ml	3.73	2.80	4.66	0.47	0.93	Roche Cobas E411
Free T4	pmol/l	15.7	11.8	19.6	1.95	3.90	Roche Cobas 6000/8000
	ng/dl	1.22	0.920	1.52	0.15	0.30	Roche Cobas 6000/8000
	pg/ml	12.2	9.20	15.2	1.50	3.00	Roche Cobas 6000/8000
FSH	mU/ml	9.32	7.46	11.2	0.93	1.86	Roche Cobas E411
Gentamicin	µmol/l	3.64	2.91	4.37	0.37	0.73	Enzyme Immunoassay
	µg/ml	1.74	1.39	2.09	0.18	0.35	
	µmol/l	5.00	4.00	6.00	0.50	1.00	Gravimetric
	µg/ml	2.39	1.91	2.87	0.24	0.48	
	µmol/l	4.67	3.74	5.60	0.47	0.93	Immunoturbidimetric
gamma-GT	U/l	29	25	33	2.00	4.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	23	20	26	1.50	3.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	18	15	21	1.50	3.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
	U/l	36	31	41	2.50	5.00	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	28	24	32	2.00	4.00	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
	U/l	22	19	25	1.50	3.00	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C
GLDH	U/l	18	14	22	2.00	4.00	Triethanolamine buffer 50 mmol 37°C
	U/l	14	11	17	1.50	3.00	Triethanolamine buffer 50 mmol 30°C
	U/l	11	9	13	1.00	2.00	Triethanolamine buffer 50 mmol 25°C
Glucose	mmol/l	3.13	2.66	3.60	0.24	0.47	Hexokinase
	mg/dl	56.4	47.9	64.9	4.25	8.50	

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Glucose	mmol/l	3.19	2.71	3.67	0.24	0.48	Glucose oxidase
	mg/dl	57.5	48.8	66.2	4.35	8.70	
Haptoglobin	g/l	0.54	0.43	0.65	0.05	0.11	Immunoturbidimetric
	mg/dl	54.2	43.4	65.0	5.40	10.80	
HDL - Cholesterol	mmol/l	1.08	0.92	1.24	0.08	0.16	Direct Clearance Method
	mg/dl	41.7	35.4	48.0	3.15	6.30	
	mmol/l	1.57	1.33	1.81	0.12	0.24	Direct HDL PEGME
	mg/dl	60.6	51.3	69.9	4.65	9.30	
Immunoglobulin A	g/l	1.09	0.82	1.36	0.14	0.27	Immunoturbidimetric
	mg/dl	109	81.8	136	13.60	27.20	
Immunoglobulin E	KIU/l =	92.2	73.8	111	9.22	18.44	Immunoturbidimetric
Immunoglobulin G	g/l	6.61	5.42	7.80	0.60	1.19	Immunoturbidimetric
	mg/dl	661	542	780	59.50	119.00	
Immunoglobulin M	g/l	0.48	0.38	0.57	0.05	0.10	Immunoturbidimetric
	mg/dl	47.6	38.1	57.1	4.75	9.50	
Iron	µmol/l	14.7	12.1	17.3	1.30	2.60	Colorimetric without ppt.
	µg/dl	82.2	67.6	96.8	7.30	14.60	
Lactate	mmol/l	0.58	0.48	0.69	0.05	0.11	Colorimetric Lactate Oxidase
	mg/dl	5.23	4.29	6.17	0.47	0.94	
	mmol/l	0.69	0.57	0.82	0.06	0.12	UV LDH
	mg/dl	6.23	5.11	7.35	0.56	1.12	
LAP	U/l	12	10	14	1.00	2.00	NAGEL 37°C
LD (LDH)	U/l	106	90	122	8.00	16.00	P->L German methods 37°C
	U/l	77	65	89	6.00	12.00	P->L German methods 30°C
	U/l	54	46	62	4.00	8.00	P->L German methods 25°C

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
LD (LDH)	U/l	58	49	67	4.50	9.00	L->P IFCC 37°C
	U/l	42	35	49	3.50	7.00	L->P IFCC 30°C
	U/l	29	25	33	2.00	4.00	L->P IFCC 25°C
LDL - Cholesterol	mmol/l	1.58	1.34	1.82	0.12	0.24	Direct Clearance Method
	mg/dl	61.0	51.7	70.3	4.65	9.30	
	mmol/l	1.67	1.42	1.92	0.13	0.25	Selective detergent methods
Lipase	mg/dl	64.5	54.8	74.2	4.85	9.70	
	U/l	20	16	24	2.00	4.00	Roche Colorimetric 37°C
	U/l	26	21	31	2.50	5.00	Randox Colorimetric 37°C
Lipoprotein (a)	U/l	57	46	68	5.50	11.00	Randox Turbidimetric with colipase 37°C
	mg/dl	12.5	10.0	15.0	1.25	2.50	Immunoturbidimetric
	nmol/l	23.4	18.7	28.1	2.35	4.70	
Lithium	mmol/l	0.50	0.44	0.56	0.03	0.06	Gravimetric
	mg/dl	0.347	0.306	0.388	0.02	0.04	
	mmol/l	0.48	0.42	0.54	0.03	0.06	Spectrophotometric
	mg/dl	0.334	0.294	0.374	0.02	0.04	
	mmol/l	0.43	0.38	0.49	0.03	0.05	Randox Colorimetric
Luteinising Hormone (LH)	mg/dl	0.301	0.265	0.337	0.02	0.04	
	mU/ml	5.80	4.64	6.96	0.58	1.16	Roche Cobas E411
Magnesium	mmol/l	0.49	0.43	0.55	0.03	0.06	Xylidyl Blue
	mg/dl	1.19	1.05	1.33	0.07	0.14	
	mmol/l	0.42	0.37	0.47	0.03	0.05	Methylthymol blue
Myoglobin	mg/dl	1.01	0.892	1.13	0.06	0.12	
	ng/ml =	47.9	33.5	62.3	7.20	14.40	Immunoturbidimetric

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Osmolality	mOsm/kg	571	457	685	57.00	114.00	Freezing point depression
Paracetamol	mmol/l	0.12	0.09	0.14	0.01	0.02	Gravimetric
	mg/l	17.5	14.1	20.9	1.70	3.40	
	mmol/l	0.10	0.08	0.12	0.01	0.02	Enzymatic
	mg/l	15.4	12.4	18.4	1.50	3.00	
Phenobarbital	µmol/l	28.5	22.8	34.2	2.85	5.70	Immunoturbidimetric
	µg/ml	6.61	5.29	7.93	0.66	1.32	
	µmol/l	36.0	28.8	43.2	3.60	7.20	Gravimetric
	µg/ml	8.35	6.68	10.0	0.84	1.67	
Phenytoin	µmol/l	29.7	23.8	35.6	2.95	5.90	Gravimetric
	µg/ml	7.50	6.01	8.99	0.75	1.49	
	µmol/l	27.0	21.6	32.4	2.70	5.40	Immunoturbidimetric
	µg/ml	6.82	5.45	8.19	0.69	1.37	
Phosphate Inorganic	mmol/l	0.79	0.67	0.91	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.45	2.08	2.82	0.19	0.37	
Potassium	mmol/l	2.43	2.24	2.62	0.10	0.19	ISE indirect
	mmol/l	2.66	2.45	2.87	0.11	0.21	ISE direct
	mmol/l	2.40	2.21	2.59	0.10	0.19	Enzymatic
Prealbumin	g/l	0.13	0.11	0.16	0.01	0.03	Immunoturbidimetric
	mg/dl	13.4	10.7	16.1	1.35	2.70	
Progesterone	nmol/l	4.09	3.27	4.91	0.41	0.82	Roche Cobas E411
	ng/ml	1.28	1.02	1.54	0.13	0.26	
Prolactin	µU/ml	118	94.4	142	11.80	23.60	Roche Cobas E411
Protein Total	g/l	39.8	31.8	47.8	4.00	8.00	Biuret reaction end point
	g/dl	3.98	3.18	4.78	0.40	0.80	

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
PSA Total	ng/ml =	2.44	1.83	3.05	0.31	0.61	Roche Cobas E411
Salicylate	mmol/l	0.30	0.24	0.36	0.03	0.06	Gravimetric
	mg/dl	4.10	3.28	4.92	0.41	0.82	
	mmol/l	0.25	0.20	0.30	0.03	0.05	Colorimetric
	mg/dl	3.46	2.77	4.15	0.35	0.69	
Sodium	mmol/l	112	106	118	3.00	6.00	ISE indirect
	mmol/l	111	105	117	3.00	6.00	ISE direct
	mmol/l	103	97.9	108	2.55	5.10	Enzymatic
T Uptake	%U	33.9	27.8	40.0	3.05	6.10	Siemens Immulite 2000
Testosterone	nmol/l	3.01	2.41	3.60	0.30	0.60	Roche Cobas E411
	ng/ml	0.866	0.694	1.04	0.09	0.17	Roche Cobas E411
	ng/dl	86.6	69.4	104	8.60	17.20	Roche Cobas E411
Theophylline	µmol/l	26.3	21.0	31.6	2.65	5.30	Immunoturbidimetric
	µg/ml	4.74	3.78	5.70	0.48	0.96	
	µmol/l	30.0	24.0	36.0	3.00	6.00	Gravimetric
	µg/ml	5.41	4.32	6.50	0.55	1.09	
Thyroid Stimulating Hormone	µU/ml =	0.92	0.74	1.10	0.09	0.18	Roche Cobas E411
TIBC	µmol/l	33.6	26.5	40.7	3.55	7.10	Randox Direct
	µg/dl	188	148	228	20.00	40.00	
	µmol/l	30.8	24.3	37.3	3.25	6.50	Direct Colorimetric
	µg/dl	172	136	208	18.00	36.00	
Total Beta hCG	mU/ml=IU	5.22	4.18	6.26	0.52	1.04	Roche Cobas E411
	IU/ml	0.005	0.004	0.006	0.00	0.00	
Total T3	nmol/l	1.75	1.31	2.19	0.22	0.44	Roche Cobas E411
	ng/ml	1.14	0.853	1.43	0.14	0.29	Roche Cobas E411
	ng/dl	114	85.3	143	14.35	28.70	Roche Cobas E411

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods	
			low	high				
Total T4	nmol/l	57.0	42.8	71.2	7.10	14.20	Roche Cobas E411	
	µg/dl	4.45	3.34	5.56	0.56	1.11	Roche Cobas E411	
	ng/ml	44.5	33.4	55.6	5.55	11.10	Roche Cobas E411	
Transferrin	g/l	1.20	0.96	1.44	0.12	0.24	Immunoturbidimetric	
	mg/dl	120	96.0	144	12.00	24.00		
Triglycerides	mmol/l	1.75	1.47	2.03	0.14	0.28	Lipase/GPO-PAP no correction	
	mg/dl	155	130	180	12.50	25.00		
Troponin T	ng/ml = µg/l	0.08	0.05	0.10	0.01	0.02	Roche Cobas E411	
	ng/l = pg/ml	75.2	53.0	97.4	11.10	22.20		
Urea	mmol/l	2.98	2.53	3.43	0.23	0.45	Urease kinetic	
	mg/dl	17.9	15.2	20.6	1.35	2.70		
	mmol/l	2.98	2.53	3.43	0.23	0.45	BUN	
	mg/dl	8.40	7.10	9.70	0.65	1.30		
Uric Acid (Urate)	mmol/l	0.15	0.13	0.17	0.01	0.02	Uricase Peroxidase with ascorbate oxidase @ 546nm	
	mg/dl	2.57	2.23	2.91	0.17	0.34		
	mmol/l	0.13	0.12	0.15	0.01	0.02	Uricase peroxidase no ascorbate oxidase	
	mg/dl	2.25	1.97	2.53	0.14	0.28		
	mmol/l	0.15	0.13	0.17	0.01	0.02	Uricase peroxidase with ascorbate oxidase	
	mg/dl	2.49	2.17	2.81	0.16	0.32		
	Valproic Acid	µmol/l	208	166	250	21.00	42.00	Gravimetric
		µg/ml	30.0	24.0	36.0	3.00	6.00	
µmol/l		188	150	226	19.00	38.00	Immunoturbidimetric	
µg/ml		27.1	21.6	32.6	2.75	5.50		
Vancomycin	µmol/l	3.40	2.72	4.08	0.34	0.68	Gravimetric	
	µg/ml	5.05	4.04	6.06	0.51	1.01		

MEAN OF ALL INSTRUMENTS (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Vitamin B12	pmol/l	150	120	180	15.00	30.00	Roche Cobas E411
	pg/ml	203	163	243	20.00	40.00	
Zinc	µmol/l	18.6	14.9	22.3	1.85	3.70	Colorimetric with deproteinisation
	µg/dl	121	97.3	145	11.85	23.70	

MEAN OF ALL INSTRUMENTS (Elec.) (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Albumin (electrophoresis)		63.2	56.9	69.5	3.15	6.30	% of total Protein (Beckman Capillary)
alpha-1-globulin		6.9	5.2	8.6	0.83	1.66	% of total Protein (Beckman Capillary)
alpha-2-globulin		5.5	4.2	6.8	0.66	1.32	% of total Protein (Beckman Capillary)
beta-globulin		9.8	7.5	12.2	1.18	2.35	% of total Protein (Beckman Capillary)
gamma-globulin		14.6	11.1	18.1	1.75	3.50	% of total Protein (Beckman Capillary)

ROCHE COBAS SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Albumin	g/l	24.8	21.1	28.5	1.85	3.70	Bromocresol Green
	g/dl	2.48	2.11	2.85	0.19	0.37	
Alkaline Phosphatase	U/l	20	17	23	1.50	3.00	Roche Integra AMP buffer 37°C
	U/l	16	13	19	1.50	3.00	Roche Integra AMP buffer 30°C
	U/l	13	11	15	1.00	2.00	Roche Integra AMP buffer 25°C
ALT (GPT)	U/l	37	30	44	3.50	7.00	Tris buffer without P5P 37°C
	U/l	27	22	32	2.50	5.00	Tris buffer without P5P 30°C
	U/l	21	17	25	2.00	4.00	Tris buffer without P5P 25°C
Amylase Total	U/l	51	43	59	4.00	8.00	Roche liquid stable pNPG7 37°C
AST (GOT)	U/l	35	28	42	3.50	7.00	Tris buffer without P5P 37°C
	U/l	24	19	29	2.50	5.00	Tris buffer without P5P 30°C
	U/l	17	13	21	2.00	4.00	Tris buffer without P5P 25°C
Bicarbonate	mmol/l	11.7	9.28	14.1	1.21	2.42	Enzymatic
Bilirubin Direct	µmol/l	12.1	9.56	14.6	1.27	2.54	Dichlorophenyl Diazonium (DPD)
	mg/dl	0.708	0.559	0.857	0.07	0.15	
Bilirubin Total	µmol/l	17.6	13.9	21.3	1.85	3.70	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.03	0.813	1.25	0.11	0.22	
C-Reactive Protein	mg/l	0.90	0.72	1.08	0.09	0.18	Immunoturbidimetric
Calcium	mmol/l	1.67	1.50	1.84	0.09	0.17	NM-BAPTA
	mg/dl	6.69	6.01	7.37	0.34	0.68	
Chloride	mmol/l	73.5	67.6	79.4	2.95	5.90	ISE indirect

ROCHE COBAS SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Cholesterol	mmol/l	3.44	2.99	3.89	0.23	0.45	Cholesterol Oxidase
	mg/dl	133	115	151	9.00	18.00	
CK Total	U/l	54	44	64	5.00	10.00	CK-NAC (IFCC) 37°C
	U/l	34	28	40	3.00	6.00	CK-NAC (IFCC) 30°C
	U/l	23	19	27	2.00	4.00	CK-NAC (IFCC) 25°C
Creatinine	µmol/l	58.9	47.1	70.7	5.90	11.80	Roche Creatinine Plus
	mg/dl	0.666	0.532	0.800	0.07	0.13	
Ferritin	ng/ml =	29.1	23.3	34.9	2.90	5.80	Immunoturbidimetric
gamma-GT	U/l	30	26	34	2.00	4.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	24	20	28	2.00	4.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	19	16	22	1.50	3.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
Glucose	mmol/l	3.04	2.58	3.50	0.23	0.46	Hexokinase
	mg/dl	54.8	46.5	63.1	4.15	8.30	
Iron	µmol/l	14.8	12.1	17.5	1.35	2.70	Colorimetric without ppt.
	µg/dl	82.7	67.6	97.8	7.55	15.10	
Lactate	mmol/l	0.59	0.49	0.70	0.05	0.11	Colorimetric Lactate Oxidase
	mg/dl	5.33	4.37	6.29	0.48	0.96	
LD (LDH)	U/l	109	93	125	8.00	16.00	P->L German methods 37°C
	U/l	79	67	91	6.00	12.00	P->L German methods 30°C
	U/l	55	47	63	4.00	8.00	P->L German methods 25°C
Lipase	U/l	20	16	24	2.00	4.00	Roche Colorimetric 37°C
Lithium	mmol/l	0.48	0.42	0.54	0.03	0.06	Spectrophotometric
	mg/dl	0.334	0.294	0.374	0.02	0.04	
Magnesium	mmol/l	0.49	0.43	0.55	0.03	0.06	Xylidyl Blue
	mg/dl	1.19	1.04	1.34	0.08	0.15	

ROCHE COBAS SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Phosphate Inorganic	mmol/l	0.79	0.67	0.90	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.44	2.07	2.81	0.19	0.37	
Potassium	mmol/l	2.34	2.15	2.53	0.10	0.19	ISE indirect
Protein Total	g/l	39.1	31.3	46.9	3.90	7.80	Biuret reaction end point
	g/dl	3.91	3.13	4.69	0.39	0.78	
Sodium	mmol/l	114	108	120	3.00	6.00	ISE indirect
Triglycerides	mmol/l	1.87	1.57	2.17	0.15	0.30	Lipase/GPO-PAP no correction
	mg/dl	165	139	191	13.00	26.00	
Urea	mmol/l	2.69	2.29	3.09	0.20	0.40	Urease kinetic
	mg/dl	16.2	13.8	18.6	1.20	2.40	
	mmol/l	2.69	2.29	3.09	0.20	0.40	BUN
	mg/dl	7.50	6.40	8.60	0.55	1.10	
Uric Acid (Urate)	mmol/l	0.16	0.14	0.18	0.01	0.02	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	2.62	2.28	2.96	0.17	0.34	

RX SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	26.4	22.4	30.4	2.00	4.00	Bromocresol Green
	g/dl	2.64	2.24	3.04	0.20	0.40	
Alkaline Phosphatase	U/l	20	17	23	1.50	3.00	AMP optimised to IFCC 37°C
	U/l	59	50	68	4.50	9.00	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	36	29	43	3.50	7.00	Tris buffer without P5P 37°C
Amylase Pancreatic	U/l	35	30	40	2.50	5.00	Randox Liquid Ethylidene pNPG7 37°C
Amylase Total	U/l	54	46	62	4.00	8.00	Randox Liquid Ethylidene pNPG7 37°C
AST (GOT)	U/l	41	33	49	4.00	8.00	Tris buffer without P5P 37°C
Bicarbonate	mmol/l	14.3	11.3	17.3	1.50	3.00	Enzymatic
Bile Acids	µmol/l	17.5	14.0	21.0	1.75	3.50	5th Generation Colorimetric
Bilirubin Direct	µmol/l	13.2	10.4	16.0	1.40	2.80	Diazo with Sulphanilic Acid
	mg/dl	0.772	0.608	0.936	0.08	0.16	
	µmol/l	9.94	7.85	12.0	1.05	2.09	Oxidation to Biliverdin/Vanadate
	mg/dl	0.581	0.459	0.703	0.06	0.12	
Bilirubin Total	µmol/l	19.6	15.5	23.7	2.05	4.10	Diazo with Sulphanilic Acid
	mg/dl	1.15	0.907	1.39	0.12	0.24	
	µmol/l	19.1	15.1	23.1	2.00	4.00	Oxidation to Biliverdin/Vanadate
	mg/dl	1.12	0.883	1.36	0.12	0.24	
Calcium	mmol/l	1.83	1.65	2.01	0.09	0.18	Arsenazo III
	mg/dl	7.33	6.61	8.05	0.36	0.72	
Chloride	mmol/l	76.8	70.7	82.9	3.05	6.10	ISE direct

RX SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Cholesterol	mmol/l	3.62	3.15	4.09	0.24	0.47	Cholesterol Oxidase
	mg/dl	140	122	158	9.00	18.00	
CK Total	U/l	67	55	79	6.00	12.00	CK-NAC (IFCC) 37°C
	U/l	59	48	70	5.50	11.00	CK-NAC substrate start (DGKC) 37°C
Creatinine	µmol/l	70.1	56.1	84.1	7.00	14.00	Alkaline picrate no deproteinization
	mg/dl	0.792	0.634	0.950	0.08	0.16	
	µmol/l	52.5	42.0	63.0	5.25	10.50	Enzymatic UV method
	mg/dl	0.593	0.475	0.711	0.06	0.12	
gamma-GT	U/l	36	31	41	2.50	5.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	3.27	2.78	3.76	0.25	0.49	Hexokinase
	mg/dl	58.9	50.1	67.7	4.40	8.80	
	mmol/l	3.25	2.76	3.74	0.25	0.49	Glucose oxidase
	mg/dl	58.6	49.7	67.5	4.45	8.90	
Iron	µmol/l	14.9	12.2	17.6	1.35	2.70	Colorimetric without ppt.
	µg/dl	83.3	68.2	98.4	7.55	15.10	
Lactate	mmol/l	0.57	0.47	0.67	0.05	0.10	Colorimetric Lactate Oxidase
	mg/dl	5.14	4.21	6.07	0.47	0.93	
LD (LDH)	U/l	57	48	66	4.50	9.00	L->P IFCC 37°C
	U/l	103	88	118	7.50	15.00	P->L German methods 37°C
Lipase	U/l	26	21	31	2.50	5.00	Randox Colorimetric 37°C
Lithium	mmol/l	0.43	0.38	0.49	0.03	0.05	Colorimetric
	mg/dl	0.301	0.265	0.337	0.02	0.04	
Magnesium	mmol/l	0.47	0.41	0.52	0.03	0.06	Xylidyl Blue
	mg/dl	1.14	1.00	1.28	0.07	0.14	
Phosphate Inorganic	mmol/l	0.82	0.69	0.94	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.53	2.15	2.91	0.19	0.38	



RX SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Potassium	mmol/l	2.66	2.45	2.87	0.11	0.21	ISE direct
	mmol/l	2.40	2.21	2.59	0.10	0.19	Enzymatic
Protein Total	g/l	40.5	32.4	48.6	4.05	8.10	Biuret reaction end point
	g/dl	4.05	3.24	4.86	0.41	0.81	
Sodium	mmol/l	111	105	117	3.00	6.00	ISE direct
	mmol/l	103	97.9	108	2.55	5.10	Enzymatic
TIBC	µmol/l	33.6	26.5	40.7	3.55	7.10	Direct Colorimetric
	µg/dl	188	148	228	20.00	40.00	
Triglycerides	mmol/l	1.76	1.48	2.04	0.14	0.28	Lipase/GPO-PAP no correction
	mg/dl	156	131	181	12.50	25.00	
Urea	mmol/l	3.01	2.56	3.46	0.23	0.45	Urease kinetic
	mg/dl	18.1	15.4	20.8	1.35	2.70	
	mmol/l	3.01	2.56	3.46	0.23	0.45	BUN
	mg/dl	8.40	7.10	9.70	0.65	1.30	
Uric Acid (Urate)	mmol/l	0.15	0.13	0.17	0.01	0.02	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	2.50	2.18	2.82	0.16	0.32	
	mmol/l	0.11	0.10	0.13	0.01	0.02	Uricase peroxidase no ascorbate oxidase
	mg/dl	1.90	1.65	2.15	0.13	0.25	

SIEMENS ATELLICA / ADVIA 1200/1650/1800/2400 (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Albumin	g/l	23.6	20.1	27.1	1.75	3.50	Bromocresol Green
	g/dl	2.36	2.01	2.71	0.18	0.35	
Alkaline Phosphatase	U/l	20	17	23	1.50	3.00	AMP optimised to IFCC 37°C
ALT (GPT)	U/l	39	31	47	4.00	8.00	Tris buffer with P5P 37°C
Amylase Pancreatic	U/l	33	28	38	2.50	5.00	Immunoinhibition EPS substrate 37°C
Amylase Total	U/l	53	45	61	4.00	8.00	Siemens - blocked pNPG7 37°C
AST (GOT)	U/l	43	34	52	4.50	9.00	Tris buffer with P5P 37°C
Bilirubin Direct	µmol/l	11.3	8.93	13.7	1.19	2.37	Oxidation to Biliverdin/Vanadate
	mg/dl	0.661	0.522	0.800	0.07	0.14	
Bilirubin Total	µmol/l	20.0	15.8	24.2	2.10	4.20	Oxidation to Biliverdin/Vanadate
	mg/dl	1.17	0.924	1.42	0.12	0.25	
C-Reactive Protein	mg/l	2.86	2.29	3.43	0.29	0.57	Immunoturbidimetric
Calcium	mmol/l	1.70	1.53	1.87	0.09	0.17	Cresolphthalein complexone
	mg/dl	6.81	6.13	7.49	0.34	0.68	
	mmol/l	1.81	1.63	1.99	0.09	0.18	Arsenazo III
	mg/dl	7.25	6.53	7.97	0.36	0.72	
Cholesterol	mmol/l	3.61	3.14	4.08	0.24	0.47	Cholesterol Oxidase
	mg/dl	139	121	157	9.00	18.00	
CK Total	U/l	56	46	66	5.00	10.00	CK-NAC (IFCC) 37°C
Creatinine	µmol/l	83.9	67.1	101	8.40	16.80	Jaffe rate blanked comp. (-26 µmol/l)
	mg/dl	0.948	0.758	1.14	0.10	0.19	

SIEMENS ATELLICA / ADVIA 1200/1650/1800/2400 (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
gamma-GT	U/l	29	25	33	2.00	4.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	3.13	2.66	3.60	0.24	0.47	Glucose oxidase
	mg/dl	56.4	47.9	64.9	4.25	8.50	
	mmol/l	3.15	2.68	3.62	0.24	0.47	Hexokinase
	mg/dl	56.8	48.3	65.3	4.25	8.50	
HDL - Cholesterol	mmol/l	1.04	0.88	1.20	0.08	0.16	Direct Clearance Method
	mg/dl	40.1	34.1	46.1	3.00	6.00	
Iron	µmol/l	15.2	12.5	17.9	1.35	2.70	Colorimetric without ppt.
	µg/dl	85.0	69.9	100	7.55	15.10	
LDL - Cholesterol	mmol/l	1.61	1.37	1.85	0.12	0.24	Direct Clearance Method
	mg/dl	62.1	52.9	71.3	4.60	9.20	
Magnesium	mmol/l	0.52	0.46	0.58	0.03	0.06	Xylidyl Blue
	mg/dl	1.26	1.11	1.41	0.08	0.15	
Phosphate Inorganic	mmol/l	0.80	0.68	0.92	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.47	2.10	2.84	0.19	0.37	
Protein Total	g/l	40.6	32.5	48.7	4.05	8.10	Biuret reaction end point
	g/dl	4.06	3.25	4.87	0.41	0.81	
TIBC	µmol/l	30.8	24.3	37.3	3.25	6.50	Direct Colorimetric
	µg/dl	172	136	208	18.00	36.00	
Triglycerides	mmol/l	1.81	1.52	2.10	0.15	0.29	Lipase/GPO-PAP no correction
	mg/dl	160	135	185	12.50	25.00	
Urea	mmol/l	3.00	2.55	3.45	0.23	0.45	Urease kinetic
	mg/dl	18.0	15.3	20.7	1.35	2.70	
	mmol/l	3.00	2.55	3.45	0.23	0.45	BUN
	mg/dl	8.40	7.10	9.70	0.65	1.30	

SIEMENS ATELLICA / ADVIA 1200/1650/1800/2400 (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Uric Acid (Urate)	mmol/l	0.15	0.13	0.17	0.01	0.02	Uricase peroxidase no ascorbate oxidase
	mg/dl	2.59	2.25	2.93	0.17	0.34	

SIEMENS DIMENSION SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Albumin	g/l	24.6	20.9	28.3	1.85	3.70	Bromocresol Purple
	g/dl	2.46	2.09	2.83	0.19	0.37	
Alkaline Phosphatase	U/l	25	21	29	2.00	4.00	Siemens Dimension AMP buffer 37°C
ALT (GPT)	U/l	41	33	49	4.00	8.00	Siemens Dade Standard Non IFCC Correlated 37°C
Amylase Total	U/l	53	45	61	4.00	8.00	Siemens 2-chloro-pNPG3 37°C
AST (GOT)	U/l	48	38	58	5.00	10.00	Siemens Dade Standard Non IFCC Correlated 37°C
Bicarbonate	mmol/l	14.1	11.2	17.0	1.45	2.90	Enzymatic
Bilirubin Direct	µmol/l	7.76	6.13	9.39	0.82	1.63	Diazo with Sulphanilic Acid
	mg/dl	0.454	0.359	0.549	0.05	0.10	
Bilirubin Total	µmol/l	16.8	13.3	20.3	1.75	3.50	Diazo with Sulphanilic Acid
	mg/dl	0.983	0.778	1.19	0.10	0.21	
Calcium	mmol/l	1.71	1.54	1.88	0.09	0.17	Cresolphthalein complexone
	mg/dl	6.85	6.17	7.53	0.34	0.68	
Cholesterol	mmol/l	3.36	2.92	3.80	0.22	0.44	Dimension-Siemens reagents
	mg/dl	130	113	147	8.50	17.00	
CK Total	U/l	53	43	63	5.00	10.00	CK-NAC (IFCC) 37°C
Creatinine	µmol/l	72.8	58.2	87.4	7.30	14.60	Alkaline picrate no deproteinization
	mg/dl	0.823	0.658	0.988	0.08	0.17	
Digoxin	nmol/l	1.03	0.82	1.24	0.10	0.21	Enzyme Immunoassay
	ng/ml	0.804	0.644	0.964	0.08	0.16	
Gentamicin	µmol/l	3.64	2.91	4.37	0.37	0.73	Turbidimetric
	µg/ml	1.74	1.39	2.09	0.18	0.35	

SIEMENS DIMENSION SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
gamma-GT	U/l	44	37	51	3.50	7.00	Siemens Dimension (non IFCC) 37°C
Glucose	mmol/l	3.06	2.60	3.52	0.23	0.46	Hexokinase
	mg/dl	55.1	46.9	63.3	4.10	8.20	
HDL - Cholesterol	mmol/l	1.57	1.33	1.81	0.12	0.24	Direct HDL PEGME
	mg/dl	60.6	51.3	69.9	4.65	9.30	
Iron	µmol/l	13.7	11.2	16.2	1.25	2.50	Colorimetric without ppt.
	µg/dl	76.6	62.6	90.6	7.00	14.00	
Lactate	mmol/l	0.69	0.57	0.82	0.06	0.12	UV LDH
	mg/dl	6.23	5.11	7.35	0.56	1.12	
LD (LDH)	U/l	58	49	67	4.50	9.00	Siemens Dimension L-P Non IFCC 37°C
LDL - Cholesterol	mmol/l	1.67	1.42	1.92	0.13	0.25	Selective detergent methods
	mg/dl	64.5	54.8	74.2	4.85	9.70	
Lipase	U/l	82	66	98	8.00	16.00	Colorimetric Siemens Dimension (LIPL Kit) 37°C
Magnesium	mmol/l	0.42	0.37	0.47	0.03	0.05	Methylthymol blue
	mg/dl	1.01	0.892	1.13	0.06	0.12	
Paracetamol	mmol/l	0.17	0.13	0.20	0.02	0.03	Enzymatic
	mg/l	25.1	20.1	30.1	2.50	5.00	
Phosphate Inorganic	mmol/l	0.78	0.67	0.90	0.06	0.12	Phosphomolybdate UV
	mg/dl	2.42	2.06	2.78	0.18	0.36	
Protein Total	g/l	39.6	31.7	47.5	3.95	7.90	Biuret reaction end point
	g/dl	3.96	3.17	4.75	0.40	0.79	
Salicylate	mmol/l	0.25	0.20	0.30	0.03	0.05	Colorimetric
	mg/dl	3.46	2.77	4.15	0.35	0.69	
Theophylline	µmol/l	26.3	21.0	31.6	2.65	5.30	Turbidimetric
	µg/ml	4.74	3.78	5.70	0.48	0.96	

SIEMENS DIMENSION SERIES® (LIQ CHEM ASY PREMIUM PLUS 1)

Cat. No. LAL4213 Lot No. 306UL

Size: 12 x 5 ml Expiry: 2020-12-28

Analyte	unit	Target	Range		1SD	2SD	methods
			low	high			
Triglycerides	mmol/l	1.61	1.35	1.87	0.13	0.26	Lipase/GPO-PAP no correction
	mg/dl	142	119	165	11.50	23.00	
Urea	mmol/l	3.36	2.86	3.86	0.25	0.50	Urease kinetic
	mg/dl	20.2	17.2	23.2	1.50	3.00	
	mmol/l	3.36	2.86	3.86	0.25	0.50	BUN
	mg/dl	9.40	8.00	10.8	0.70	1.40	
Uric Acid (Urate)	mmol/l	0.16	0.14	0.18	0.01	0.02	Uricase peroxidase no ascorbate oxidase
	mg/dl	2.60	2.27	2.93	0.17	0.33	