



# Standatrol S-E

## 2 niveles

Lyophilized serum for precision control in clinical chemistry

Lot: 1612206210  
Level 1: 201920  
Level 2: 201930

### USES

**Standatrol S-E 2 niveles** is adaptable to different uses:

- intralaboratory precision studies in which a stable, reproducible in time control specimen is required.
- It can be used in the reproducibility daily control and in the preparation of "control charts" following usual methods;
- as "unknown sample" in interlaboratory precision surveys, based on its constant dosage and high stability.

### PRINCIPLE

**Standatrol S-E 2 niveles** contains the compounds usually determined in clinical chemistry laboratories. It must be noted that the assigned values for the different constituents of the control sera have been obtained with Wiener lab.'s methods and reagents, thus, the obtained results will only be comparable to the list if the corresponding methods and reagents have been used.

### PROVIDED REAGENTS

**Control Level 1:** 5 ml-vials of homogenized and lyophilized serum with normal concentrations or normal/pathological threshold of metabolites and enzymes.

**Control Level 2:** 5 ml-vials of homogenized and lyophilized serum with pathological concentrations or normal/pathological threshold of metabolites and enzymes.

### NON-PROVIDED REAGENTS

Bidistilled or deionized water.

### INSTRUCTIONS FOR USE

- Open the vial, slowly pulling out the rubber stopper to avoid any loss of the lyophilized material.
- Add exactly 5.00 ml bidistilled or deionized water (using appropriate volumetric device).
- Cap and mix by gentle inversion, avoiding the formation of foam. Do not shake.
- Let dissolve for 20 minutes at room temperature, occasionally mixing by inversion.
- Mix by inversion immediately before use.

### WARNINGS

Reagents are for "in vitro" diagnostic use.

These control sera have been prepared from non-reactive material to HBsAg, HCV and HIV. However, the controls and blood samples should be handled as if it were infectious material.

Use the reagents according to the working procedures for clinical laboratories.

The reagents and samples should be discarded according to the local regulations in force.

### STABILITY AND STORAGE INSTRUCTIONS

**Standatrol S-E 2 niveles:** is stable in refrigerator (2-10°C) until the expiration date shown on the box.

Once reconstituted the controls, most of their constituents are stable for 10 days refrigerated (2-10°C), with the exception of alkaline phosphatase whose activity may increase with time, and bilirubin that is stable for 12 hours at 4°C and protected from light. For each particular component, the stability is similar to that in the native serum and may be consulted in the corresponding package insert.

To improve its performance, it is recommended to freeze (-20°C) the reconstituted control serum, divided in fractions in airtight containers (e.g. 1.5 ml microcentrifuge tubes). They should only be thawed one time at room temperature, homogenizing the serum before use.

### INSTABILITY OR DETERIORATION OF REAGENTS

Any variation of the organoleptic features of the control sera (such as unusual coloration, humid appearance of lyophilized reagent, incomplete dissolution with abundant flocculation or lump formation) may be a sign of its deterioration.

### PROCEDURE

Reconstituted controls should be used in the same manner as an unknown sample, following the package insert of the reagent kit in use.

Note: the enzymes assigned values were obtained using techniques at 37°C in the different automated analyzers.

### PROCEDURE LIMITATIONS

Mistakes in the reconstitution or conservation may cause erroneous results.

See PROCEDURE LIMITATIONS on the package insert of the kit in use.

### WIENER LAB. PROVIDES

6 x 5 ml vials (Cat. 1937553).

### REFERENCES

- International Federation of Clinical Chemistry - Clin. Chem. 23/9:1784, 1977.
- Tonks, D.B. - Can. J. Med. Tech. 30:38, 1969.

**MANUAL TECHNIQUE - METABOLITES**

METABOLITE	REAGENT	LEVEL 1			LEVEL 2		
		MEAN VALUE	ACCEPTABLE RANGE		MEAN VALUE	ACCEPTABLE RANGE	
Uric acid (mg/dl)	<b>Uricostat enzimático</b>	4.2	3.4	5.0	6.7	5.5	7.9
	<b>Uricostat enzimático AA</b>	5.5	4.5	6.5	9.5	7.8	11.2
	<b>Uricostat enzimático AA líquida</b>	5.1	4.2	6.0	9.1	7.5	10.7
Albumin (g/dl)	<b>Proti-2 (BCF Reag.)</b>	4.6	3.9	5.3	3.0	2.5	3.5
	<b>Albúmina AA</b>	4.4	3.7	5.1	3.0	2.5	3.5
Direct bilirubin (mg/l)	<b>Bilirrubina</b>	2.3	1.6	3.0	8.7	6.1	11.3
	<b>Bilirrubina Directa AA</b>	2.9	2.0	3.8	9.8	6.9	12.7
	<b>Bilirrubina Directa AA líquida</b>	3.0	1.8	4.2	10	6	14
Total bilirubin (mg/l)	<b>Bilirrubina</b>	7.7	5.8	9.6	48	38	58
	<b>Bilirrubina Total AA</b>	9.3	7.4	11.2	40	32	48
	<b>Bilirrubina Total AA líquida</b>	8.1	4.9	11.3	41	25	57
Calcium (mg/dl)	<b>Ca-Color</b>	8.6	7.4	9.8	11	9	13
	<b>Ca-Color AA</b>	8.4	7.2	9.6	11	9	13
	<b>Ca-Color Arsenazo III AA</b>	9.2	7.9	10.5	11	9	13
Cholesterol (g/l)	<b>Colestat enzimático</b>	2.35	2.00	2.70	0.92	0.78	1.06
	<b>Colestat enzimático AA</b>	2.44	2.07	2.81	1.00	0.85	1.15
	<b>Colestat enzimático líquida</b>	2.49	2.12	2.86	1.02	0.87	1.17
Creatinine (mg/l)	<b>Creatinina cinética AA líquida</b>	14	11	18	58	46	70
	<b>Creatinina directa</b>	10	8	13	40	32	48
	Kinetic technique	-	-	-	-	-	-
	Endpoint technique	25	19	31	73	58	88
	<b>Creatinina</b>	26	20	33	71	57	85
Inorganicphosphorus (mg/dl)	<b>Fosfatemia</b>	3.2	2.6	3.8	7.4	6.3	8.5
	<b>Fosfatemia UV AA</b>	4.6	3.8	5.4	7.7	6.5	8.9
Glucose (mg/dl)	<b>Glicemia enzimática</b>	88	75	101	291	247	335
	<b>Glicemia enzimática AA</b>	87	74	100	284	241	327
	<b>Glicemia enzimática AA líquida</b>	88	75	101	269	229	309
Iron (ug/dl)	<b>Fer-color</b>	212	161	263	58	41	75
	<b>Fer-color AA</b>	219	166	272	51	36	66
	<b>Fer-color AA líquida</b>	228	173	283	56	39	73
Magnesium (mg/dl)	<b>Mg-color AA</b>	2.0	1.4	2.6	4.1	3.1	5.1
Total proteins (g/dl)	<b>Proti-2 (EDTA/Cu Reag.)</b>	6.3	5.5	7.1	4.3	3.8	4.8
	<b>Proteínas Totales AA</b>	6.6	5.8	7.4	4.4	3.9	4.9
Triglycerides (g/l)	<b>TG Color GPO/PAP AA</b>	1.78	1.51	2.05	0.94	0.80	1.08
	<b>TG Color GPO/PAP AA líquida</b>	1.74	1.48	2.00	0.98	0.83	1.13
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	184	138	230

(-) Non-assigned

**MANUAL TECHNIQUE - METABOLITES**

METABOLITE	REAGENT	LEVEL 1			LEVEL 2		
		MEAN VALUE	ACCEPTABLE RANGE		MEAN VALUE	ACCEPTABLE RANGE	
Urea (g/l)	Urea color 2R	0.42	0.29	0.55	1.04	0.79	1.29
	Uremia	0.30	0.21	0.39	1.00	0.76	1.24
	Urea UV cinética AA	0.34	0.24	0.44	1.00	0.76	1.24
	Urea UV cinética AA líquida	0.37	0.26	0.48	1.14	0.87	1.41

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**MANUAL TECHNIQUE - ENZYMES**

ENZYME	REAGENT	LEVEL 1			LEVEL 2		
		MEAN VALUE	ACCEPTABLE RANGE		MEAN VALUE	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV unitest</b>	30	24	36	96	77	115
	<b>GPT (ALT) UV AA</b>	42	34	50	104	83	125
	<b>GPT (ALT) UV AA líquida</b>	44	33	55	108	81	135
Amylase (U/l)	<b>Amilasa 405 cinética</b>	90	68	113	519	389	649
	<b>Amilasa 405 AA líquida</b>	93	70	116	547	410	684
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV unitest</b>	39	31	47	199	159	239
	<b>GOT (AST) UV AA</b>	45	36	54	202	162	242
	<b>GOT (AST) UV AA líquida</b>	66	50	83	200	150	250
Cholinesterase (U/l)	<b>Colinesterasa (30°C)</b>	2107	1686	2528	3981	3185	4777
	<b>Colinesterasa AA (30°C)</b>	1957	1468	2446	3890	2918	4863
Creatine Kinase (U/l)	<b>CK NAV UV unitest</b>	126	101	151	407	326	488
	<b>CK NAC UV AA</b>	112	90	134	386	309	463
	<b>CK NAC UV AA líquida</b>	121	91	151	413	310	516
Alkaline phosphatase (U/l)	<b>ALP 405 cinética optimizada</b>	153	115	191	524	393	655
	<b>ALP 405 AA líquida</b>	182	127	237	610	458	763
	<b>Fosfatasas Alcalina optim.</b>	192	154	230	603	482	724
γ-Glutamyl transferase (U/l)	<b>γ-G-test cinética AA</b>	26	20	33	119	95	143
	<b>γ-G-test cinética AA líquida</b>	27	20	34	123	98	148
Lactate dehydrogenase (U/l)	<b>LDH-P UV unitest</b>	356	285	427	826	661	991
	<b>LDH-P UV AA</b>	447	358	536	939	751	1127
	<b>LDH-P UV AA líquida</b>	415	311	519	889	667	1111

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**TARGA BT 3000 - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	<b>Uricostat enzimático AA</b>	5.28	0.48	4.33	6.23	9.75	0.88	7.99	11.51
	<b>Uricostat enz. AA líquida</b>	5.26	0.48	4.31	6.21	9.56	0.86	7.84	11.28
Albumin (g/dl)	<b>Albúmina AA</b>	3.78	0.29	3.21	4.35	2.96	0.27	2.43	3.49
Direct bilirubin (mg/dl)	<b>Bilirrubina</b>	0.34	0.05	0.25	0.43	1.11	0.11	0.89	1.33
	<b>Bilirrubina Directa AA</b>	0.37	0.08	0.22	0.52	1.10	0.22	0.66	1.54
	<b>Bilirrubina Directa AA líquida</b>	0.36	0.07	0.22	0.50	1.13	0.23	0.68	1.58
Total bilirubin (mg/dl)	<b>Bilirrubina</b>	0.98	0.13	0.73	1.23	4.56	0.46	3.65	5.47
	<b>Bilirrubina Total AA</b>	0.85	0.17	0.51	1.19	3.90	0.78	2.34	5.46
	<b>Bilirrubina Total AA líquida</b>	0.84	0.17	0.50	1.18	4.27	0.86	2.56	5.98
Calcium (mg/dl)	<b>Ca-Color AA</b>	8.90	0.63	7.65	10.15	13.0	0.9	11.2	14.8
	<b>Ca-Color Arsenazo III AA</b>	9.89	0.69	8.51	11.27	12.3	0.9	10.6	14.0
Chloride (mEq/l)	<b>Ion-selective electrode</b>	103	5	93	113	85.9	4.3	77.3	94.5
Cholesterol (mg/dl)	<b>Colestat enzimático AA</b>	251	19	213	289	101	8	86	116
	<b>Colestat enz. AA líquida</b>	253	19	215	291	102	8	87	117
Creatinine (mg/dl)	<b>Creatinina cinética AA líquida</b>	1.40	0.21	0.98	1.82	5.52	0.69	4.14	6.90
	<b>Creatinina enzim. AA líquida</b>	0.48	0.06	0.36	0.60	5.23	0.66	3.92	6.54
Inorganic phosphorus (mg/dl)	<b>Fosfatemia UV AA</b>	4.14	0.38	3.39	4.89	7.41	0.56	6.30	8.52
Glucose (mg/dl)	<b>Glicemia enzimática AA</b>	89.5	6.7	76.1	102.9	289	22	246	332
	<b>Glicemia enz. AA líquida</b>	88.5	6.7	75.2	101.8	289	22	246	332
HDL Cholesterol (mg/dl)	<b>HDL Colesterol monofase AA plus</b>	78.2	9.8	58.6	97.8	32.1	4.0	24.1	40.1
Iron (ug/dl)	<b>Fer-color AA</b>	250	30	190	310	60.7	9.1	42.5	78.9
	<b>Fer-color AA líquida</b>	225	27	171	279	59.1	8.9	41.4	76.8
Lactate (mg/dl)	<b>Lactate</b>	37.2	3.4	30.5	43.9	9.41	0.85	7.72	11.10
LDL Cholesterol (mg/dl)	<b>LDL Colesterol monofase AA</b>	135	17	101	169	54.4	6.8	40.8	68.0
Magnesium (mg/dl)	<b>Mg-color AA</b>	2.00	0.30	1.40	2.60	4.34	0.52	3.30	5.38
Potassium (mEq/l)	<b>Ion-selective electrode</b>	3.98	0.20	3.58	4.38	6.00	0.30	5.40	6.60
Total Proteins (g/dl)	<b>Proteínas Totales AA</b>	6.59	0.40	5.80	7.38	4.36	0.26	3.84	4.88
Sodium (mEq/l)	<b>Ion-selective electrode</b>	142	7	128	156	125	7	112	138
Triglycerides (mg/dl)	<b>TG Color GPO/PAP AA</b>	176	13	150	202	81.1	6.1	68.9	93.3
	<b>TG Color GPO/PAP AA líquida</b>	172	13	146	198	81.0	6.1	68.8	93.2

**TARGA BT 3000 - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	-	119	15	89	149
Urea (mg/dl)	<b>Urea UV cinética AA</b>	33.3	5.0	23.3	43.3	102	12	78	126
	<b>Urea UV cin.AA líquida</b>	33.8	5.1	23.7	43.9	104	13	79	129

(-) Non-assigned

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**TARGA BT 3000 - ENZYMES**

ENZIMA	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA</b>	32.4	3.3	25.9	38.9	97.3	9.8	77.8	116.8
	<b>GPT (ALT) UV AA líquida</b>	32.0	4.0	24.0	40.0	100	13	75	125
Amylase (U/l)	<b>Amilasa 405 cinética AA</b>	82.5	10.3	61.9	103.1	475	60	356	594
	<b>Amilasa 405 AA líquida</b>	80.8	10.1	60.6	101.0	468	59	351	585
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA</b>	40.0	4.0	32.0	48.0	190	19	152	228
	<b>GOT (AST) UV AA líquida</b>	36.7	4.6	27.5	45.9	187	24	140	234
Cholinesterase (U/l)	<b>Colinesterasa AA</b>	2073	208	1658	2488	4302	430	3442	5162
	<b>Cholinesterase</b>	2407	241	1926	2888	4570	457	3656	5484
Creatine kinase (U/l)	<b>CK-NAC UV AA</b>	116	12	93	139	404	41	323	485
	<b>CK-NAC UV AA líquida</b>	121	15	91	151	400	50	300	500
Alkaline Phosphatase (U/l)	<b>ALP 405 AA líquida</b>	212	21	170	254	723	73	578	868
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA</b>	30.2	3.8	22.6	37.8	136	14	109	163
	<b><math>\gamma</math>-G-test cinética AA líquida</b>	29.2	3.7	21.9	36.5	136	14	109	163
Lactate deshydrogenase (U/l)	<b>LDH-P UV AA</b>	350	35	280	420	722	72	578	866
	<b>LDH-P UV AA líquida</b>	333	42	250	416	730	92	547	913
	<b>LDH-L</b>	166	17	133	199	358	36	286	430
Lipase (U/l)	<b>Lipasa AA líquida</b>	39.4	4.0	31.5	47.3	57.3	5.8	45.8	68.8

Lot: 1612206210 Level 1: 201920 Level 2: 201930

SELECTRA 1 / 2 / E - METABOLITES

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	Uricostat enzimático AA	6.48	0.59	5.31	7.65	10.0	0.90	8.2	11.8
	Uricostat enz. AA líquida	5.22	0.47	4.28	6.16	10.6	0.95	8.7	12.5
Albumin (g/dl)	Albúmina AA	4.07	0.31	3.46	4.68	3.03	0.28	2.48	3.58
Direct bilirubin (mg/dl)	Bilirrubina	0.39	0.08	0.23	0.55	1.10	0.22	0.66	1.54
	Bilirrubina Directa AA	0.50	0.12	0.27	0.73	1.50	0.30	0.90	2.10
	Bilirrubina Directa AA líquida	0.69	0.16	0.38	1.00	2.00	0.40	1.20	2.80
Total bilirubin (mg/dl)	Bilirrubina	1.09	0.22	0.65	1.53	4.68	0.94	2.81	6.55
	Bilirrubina Total AA	1.15	0.26	0.63	1.67	3.92	0.79	2.35	5.49
	Bilirrubina Total AA líquida	1.21	0.27	0.67	1.75	3.50	0.70	2.10	4.90
Calcium (mg/dl)	Ca-Color AA	9.24	0.65	7.95	10.53	12.8	0.90	11.0	14.6
	Ca-Color Arsenazo III AA	10.3	0.70	8.9	11.7	12.6	0.90	10.8	14.4
Cholesterol (mg/dl)	Colestat enzimático AA	248	19	211	285	100	7.5	85	115
	Colestat enz. AA líquida	255	19	217	293	100	7.5	85	115
Creatinine (mg/dl)	Creatinina cinética AA líquida	1.25	0.19	0.87	1.63	5.15	0.78	3.60	6.70
	Creatinina enz. AA líquida	0.47	0.06	0.35	0.59	5.42	0.68	4.06	6.78
Inorganic phosphorus (mg/dl)	Fosfatemia UV AA	4.23	0.38	3.47	4.99	8.23	0.62	7.00	9.46
Glucose (mg/dl)	Glicemia enzimática AA	90.9	6.8	77.3	104.5	285	22	242	328
	Glicemia enz. AA líquida	93.1	7.0	79.1	107.1	287	22	244	330
HDL Cholesterol (mg/dl)	HDL Colesterol monofase AA plus	74.3	9.3	55.7	92.9	35.7	4.5	26.8	44.6
Iron (ug/dl)	Fer-color AA	257	39	180	334	67.6	11.9	43.9	91.3
	Fer-color AA líquida	227	34	159	295	58.5	10.3	38.0	79.0
Lactate (mg/dl)	Lactate	37.3	3.4	30.6	44.0	8.97	0.81	7.36	10.58
LDL Cholesterol (mg/dl)	LDL Colesterol monofase AA	116	15	87	145	43.7	5.5	32.8	54.6
Magnesium (mg/dl)	Mg-color AA	2.30	0.35	1.61	2.99	4.19	0.51	3.18	5.20
Total Proteins (g/dl)	Proteínas Totales AA	6.83	0.41	6.01	7.65	4.50	0.27	3.96	5.04
Triglycerides (mg/dl)	TG Color GPO/PAP AA	170	13	144	196	81.0	6.1	68.8	93.2
	TG Color GPO/PAP AA líquida	176	13	150	202	80.2	6.0	68.2	92.2
UIBC (ug/dl)	UIBC/TIBC AA líquida	-	-	-	-	145	22	101	189
Urea (mg/dl)	Urea UV cinética AA	34.7	5.2	24.3	45.1	105	13	80	130
	Urea UV cin. AA líquida	32.8	4.9	23.0	42.6	101	12	77	125

(-) Non-assigned

Lot: 1612206210 Level 1: 201920 Level 2: 201930



SELECTRA 1 / 2 / E - ENZYMES

ENZYME	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA</b>	32.3	4.1	24.2	40.4	94.6	12	70.9	118.3
	<b>GPT (ALT) UV AA líquida</b>	28.9	3.6	21.7	36.1	91.8	11.5	68.8	114.8
Amylase (U/l)	<b>Amilasa 405 cinética AA</b>	81.1	10	60.8	101.4	503	63	377	629
	<b>Amilasa 405 AA líquida</b>	79.9	10	59.9	99.9	490	62	367	613
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA</b>	39.1	4.9	29.3	48.9	185	23	139	231
	<b>GOT (AST) UV AA líquida</b>	37.4	4.7	28.0	46.8	185	23	139	231
Cholinesterase (U/l)	<b>Colinesterasa AA</b>	1856	232	1392	2320	3846	481	2884	4808
	<b>Cholinesterase</b>	2339	293	1754	2924	4650	582	3487	5813
Creatine kinase (U/l)	<b>CK-NAC UV AA</b>	143	18	107	179	489	61	367	611
	<b>CK-NAC UV AA líquida</b>	124	16	93	155	402	51	301	503
Non-prostatic acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	4.21	0.63	2.95	5.47	4.54	0.68	3.18	5.90
Total acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	8.08	1.2	5.66	10.50	39.1	5.9	27.4	50.8
Alkaline phosphatase (U/l)	<b>ALP 405 AA líquida</b>	178	23	133	223	572	72	429	715
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA</b>	26.8	3.4	20.1	33.5	116	15	87	145
	<b><math>\gamma</math>-G-test cinética AA líquida</b>	29.9	3.8	22.4	37.4	133	17	100	166
Lactate dehydrogenase (U/l)	<b>LDH-P UV AA</b>	340	43	255	425	805	101	604	1006
	<b>LDH-P UV AA líquida</b>	317	40	238	396	764	96	573	955
	<b>LDH-L</b>	166	21	124	208	388	49	291	485
Lipase (U/l)	<b>Lipasa AA líquida</b>	42.9	5.4	32.2	53.6	56.0	7.0	42.0	70.0

Lot: 1612206210 Level 1: 201920 Level 2: 201930

KONELAB SERIES / WIENER LAB. CT SERIES - METABOLITES

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	Uricostat enzimático AA Uricostat enz. AA líquida	5.08	0.46	4.17	5.99	9.58	0.86	7.86	11.30
		5.07	0.46	4.16	5.98	9.55	0.86	7.83	11.27
Albumin (g/dl)	Albúmina AA	3.93	0.30	3.34	4.52	2.89	0.26	2.37	3.41
Direct bilirubin (mg/dl)	Bilirrubina	0.19	0.03	0.14	0.24	0.94	0.10	0.75	1.13
	Bilirrubina Directa AA	0.32	0.07	0.19	0.45	1.14	0.23	0.68	1.60
	Bilirrubina Directa AA líquida	0.37	0.08	0.22	0.52	1.14	0.23	0.68	1.60
Total bilirubin (mg/dl)	Bilirrubina	1.01	0.13	0.76	1.26	4.53	0.46	3.62	5.44
	Bilirrubina Total AA	0.87	0.18	0.52	1.22	4.02	0.81	2.41	5.63
	Bilirrubina Total AA líquida	0.87	0.18	0.52	1.22	4.16	0.83	2.50	5.82
Calcium (mg/dl)	Ca-Color AA	9.10	0.64	7.83	10.37	12.4	0.9	10.7	14.1
	Ca-Color Arsenazo III AA	9.56	0.67	8.22	10.90	12.5	0.9	10.7	14.3
Ionized calcium (Ca <sub>i</sub> ) (mmol/l)	Ion-selective electrode	0.85	0.10	0.66	1.04	1.08	0.12	0.84	1.32
Chloride (mEq/l)	Ion-selective electrode	99.3	5	89.4	109.2	83.6	4.2	75.2	92.0
Cholesterol (mg/dl)	Colestat enzimático AA	247	19	210	284	98.1	7.4	83.4	112.8
	Colestat enz. AA líquida	249	19	212	286	98.7	7.4	83.9	113.5
Creatinine (mg/dl)	Creatinina cinética AA líquida	1.28	0.19	0.90	1.66	5.35	0.67	4.01	6.69
	Creatinina cinética AA líquida (compensated)	1.30	0.20	0.91	1.69	5.75	0.72	4.31	7.19
	Creatinina enzym. AA líquida	0.45	0.06	0.34	0.56	5.16	0.65	3.87	6.45
Inorganic phosphorus (mg/dl)	Fosfatemia UV AA	4.13	0.37	3.39	4.87	7.68	0.58	6.53	8.83
Glucose (mg/dl)	Glicemia enzimática AA	86.3	6.5	73.4	99.2	285	22	242	328
	Glicemia enz. AA líquida	84.5	6.4	71.8	97.2	283	21	241	325
HDL Cholesterol (mg/dl)	HDL Colesterol monofase AA plus	68.1	8.5	51.1	85.1	28.9	3.6	21.7	36.1
	HDL Cholesterol fast	65.3	8.2	49.0	81.6	28.9	3.6	21.7	36.1
Iron (ug/dl)	Fer-color AA	247	30	188	306	62.9	9.5	44.0	81.8
	Fer-color AA líquida	237	29	180	294	56.6	8.5	39.6	73.6
Lactate (mg/dl)	Lactate	35.3	3.2	28.9	41.7	8.86	0.80	7.27	10.45
LDL Cholesterol (mg/dl)	LDL Colesterol monofase AA	150	19	112	188	60.8	7.6	45.6	76.0
Lithium (mmol/l)	Ion-selective electrode	0.65	0.09	0.47	0.83	1.70	0.16	1.39	2.01
Magnesium (mg/dl)	Mg-color AA	2.03	0.31	1.42	2.64	4.40	0.53	3.34	5.46
	Magnesium CPZ	2.06	0.31	1.44	2.68	4.66	0.56	3.54	5.78
Potassium (mEq/l)	Ion-selective electrode	4.04	0.20	3.64	4.44	6.02	0.30	5.42	6.62

KONELAB SERIES / WIENER LAB. CT SERIES - METABOLITES

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Total proteins (g/dl)	<b>Proteínas Totales AA</b>	6.55	0.40	5.76	7.34	4.28	0.26	3.77	4.79
	<b>Total Protein</b>	6.30	0.38	5.54	7.06	4.12	0.25	3.63	4.61
Sodium (mEq/l)	<b>Ion-selective electrode</b>	146	8	131	161	127	7	114	140
Triglycerides (mg/dl)	<b>TG Color GPO/PAP AA</b>	168	13	143	193	76.0	5.7	64.6	87.4
	<b>TG Color GPO/PAP AA líquida</b>	173	13	147	199	77.9	5.9	66.2	89.6
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	-	141	14	113	169
Urea (mg/dl)	<b>Urea UV cinética AA</b>	32.7	4.9	22.9	42.5	103	13	78	128
	<b>Urea UV cin.AA líquida</b>	31.8	4.8	22.3	41.3	102	12	78	126

(-) Non-assigned

Lot: 1612206210 Level 1: 201920 Level 2: 201930

KONELAB SERIES / WIENER LAB. CT SERIES - ENZYMES

ENZYME	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA</b>	34.7	3.5	27.8	41.6	105	11	84	126
	<b>GPT (ALT) UV AA líquida</b>	34.9	4.4	26.2	43.6	104	13	78	130
Amylase (U/l)	<b>Amilasa 405 cinética AA</b>	85.1	10.7	63.8	106.4	513	64	385	641
	<b>Amilasa 405 AA líquida</b>	84.1	10.5	63.1	105.1	503	63	377	629
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA</b>	38.7	3.9	31.0	46.4	195	20	156	234
	<b>GOT (AST) UV AA líquida</b>	40.6	5.1	30.4	50.8	190	24	142	238
Cholinesterase (U/l)	<b>Colinesterasa AA</b>	2056	206	1645	2467	4534	454	3627	5441
	<b>Cholinesterase</b>	2365	237	1892	2838	4545	455	3636	5454
Creatine kinase (U/l)	<b>CK-NAC UV AA</b>	118	12	94	142	410	41	328	492
	<b>CK-NAC UV AA líquida</b>	116	15	87	145	394	50	295	493
Non-prostatic acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	4.65	0.70	3.25	6.05	4.74	0.71	3.32	6.16
Total acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	9.22	1.39	6.45	11.99	37.5	4.7	28.1	46.9
Alkaline phosphatase (U/l)	<b>ALP 405 AA líquida</b>	158	16	126	190	564	57	451	677
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA</b>	29.8	3.8	22.3	37.3	136	14	109	163
	<b><math>\gamma</math>-G-test cinética AA líquida</b>	30.0	3.8	22.5	37.5	136	14	109	163
Lactate dehydrogenase (U/l)	<b>LDH-P UV AA</b>	335	34	268	402	753	76	602	904
	<b>LDH-P UV AA líquida</b>	333	42	250	416	742	93	556	928
	<b>LDH-L</b>	166	17	133	199	358	36	286	430
Lipase (U/l)	<b>Lipasa AA líquida</b>	36.0	3.6	28.8	43.2	52.9	5.3	42.3	63.5

Lot: 1612206210 Level 1: 201920 Level 2: 201930

**BT 3000 PLUS / WIENER LAB. CB SERIES - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	<b>Uricostat enzimático AA</b>	5.28	0.48	4.33	6.23	9.75	0.88	7.99	11.51
	<b>Uricostat enz. AA líquida</b>	5.26	0.48	4.31	6.21	9.56	0.86	7.84	11.28
Albumin (g/dl)	<b>Albúmina AA</b>	3.78	0.29	3.21	4.35	2.96	0.27	2.43	3.49
Direct bilirubin (mg/dl)	<b>Bilirrubina</b>	0.29	0.04	0.22	0.36	1.11	0.11	0.89	1.33
	<b>Bilirrubina Directa AA</b>	0.39	0.08	0.23	0.55	1.10	0.22	0.66	1.54
	<b>Bilirrubina Directa AA líquida</b>	0.34	0.07	0.20	0.48	1.13	0.23	0.68	1.58
Total bilirubin (mg/dl)	<b>Bilirrubina</b>	0.98	0.13	0.73	1.23	4.56	0.46	3.65	5.47
	<b>Bilirrubina Total AA</b>	0.85	0.17	0.51	1.19	3.90	0.78	2.34	5.46
	<b>Bilirrubina Total AA líquida</b>	0.77	0.16	0.46	1.08	4.03	0.81	2.42	5.64
Calcium (mg/dl)	<b>Ca-Color AA</b>	8.90	0.63	7.65	10.15	13.0	0.9	11.2	14.8
	<b>Ca-Color Arsenazo III AA</b>	9.89	0.69	8.51	11.27	12.3	0.9	10.6	14.0
Chloride (mEq/l)	<b>Ion-selective electrode</b>	103	5	93	113	85.9	4.3	77.3	94.5
Cholesterol (mg/dl)	<b>Colestat enzimático AA</b>	251	19	213	289	101	8	86	116
	<b>Colestat enz. AA líquida</b>	253	19	215	291	102	8	87	117
Creatinine (mg/dl)	<b>Creatinina cinética AA líquida</b>	1.40	0.21	0.98	1.82	5.52	0.69	4.14	6.90
	<b>Creatinina cinética AA líquida (compensated)</b>	1.39	0.21	0.97	1.81	5.77	0.72	4.33	7.21
	<b>Creatinina enzym. AA líquida</b>	0.45	0.06	0.34	0.56	5.23	0.66	3.92	6.54
Inorganic phosphorus (mg/dl)	<b>Fosfatemia UV AA</b>	3.98	0.36	3.26	4.70	7.41	0.56	6.30	8.52
Glucose (mg/dl)	<b>Glicemia enzimática AA</b>	89.5	6.7	76.1	102.9	289	22	246	332
	<b>Glicemia enz. AA líquida</b>	88.5	6.7	75.2	101.8	289	22	246	332
HDL Cholesterol (mg/dl)	<b>HDL Colesterol monofase AA plus</b>	78.2	9.8	58.6	97.8	29.5	3.7	22.1	36.9
	<b>HDL Cholesterol fast</b>	67.3	8.4	50.5	84.1	24.7	3.1	18.5	30.9
Iron (ug/dl)	<b>Fer-color AA</b>	250	30	190	310	60.7	9.1	42.5	78.9
	<b>Fer-color AA líquida</b>	225	27	171	279	54.7	8.2	38.3	71.1
Lactate (mg/dl)	<b>Lactate</b>	37.2	3.4	30.5	43.9	8.97	0.81	7.36	10.58
LDL Cholesterol (mg/dl)	<b>LDL Colesterol monofase AA</b>	125	16	94	156	52.4	6.6	39.3	65.5
Magnesium (mg/dl)	<b>Mg-color AA</b>	2.00	0.30	1.40	2.60	4.34	0.52	3.30	5.38
	<b>Magnesium CPZ</b>	1.99	0.30	1.39	2.59	4.54	0.55	3.45	5.63
Potassium (mEq/l)	<b>Ion-selective electrode</b>	3.98	0.20	3.58	4.38	6.00	0.30	5.40	6.60
Total proteins (g/dl)	<b>Proteínas Totales AA</b>	6.59	0.40	5.80	7.38	4.36	0.26	3.84	4.88
	<b>Total Protein</b>	6.49	0.39	5.71	7.27	4.20	0.25	3.70	4.70
Sodium (mEq/l)	<b>Ion-selective electrode</b>	142	7	128	156	125	7	112	138

**BT 3000 PLUS / WIENER LAB. CB SERIES - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Triglycerides (mg/dl)	<b>TG Color GPO/PAP AA</b>	176	13	150	202	81.1	6.1	68.9	93.3
	<b>TG Color GPO/PAP AA líquida</b>	172	13	146	198	81.0	6.1	68.8	93.2
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	-	119	15	89	149
Urea (mg/dl)	<b>Urea UV cinética AA</b>	33.3	5.0	23.3	43.3	102	12	78	126
	<b>Urea UV cin.AA líquida</b>	33.8	5.1	23.7	43.9	104	13	79	129

(-) Non-assigned

Lot: 1612206210 Level 1: 201920 Level 2: 201930

**BT 3000 PLUS / WIENER LAB. CB SERIES - ENZYMES**

ENZYME	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA</b>	34.5	3.5	27.6	41.4	102	10	82	122
	<b>GPT (ALT) UV AA líquida</b>	32.0	4.0	24.0	40.0	100	13	75	125
Amylase (U/l)	<b>Amilasa 405 cinética AA</b>	86.9	10.9	65.2	108.6	517	65	388	646
	<b>Amilasa 405 AA líquida</b>	86.9	10.9	65.2	108.6	508	64	381	635
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA</b>	40.0	4.0	32.0	48.0	190	19	152	228
	<b>GOT (AST) UV AA líquida</b>	36.7	4.6	27.5	45.9	187	24	140	234
Cholinesterase (U/l)	<b>Colinesterasa AA</b>	2073	208	1658	2488	4302	430	3442	5162
	<b>Cholinesterase</b>	2407	241	1926	2888	4570	457	3656	5484
Creatine kinase (U/l)	<b>CK-NAC UV AA</b>	116	12	93	139	404	41	323	485
	<b>CK-NAC UV AA líquida</b>	121	15	91	151	400	50	300	500
Non-prostatic acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	3.92	0.59	2.74	5.10	4.38	0.66	3.07	5.69
Total acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	8.40	1.26	5.88	10.92	41.1	5.2	30.8	51.4
Alkaline phosphatase (U/l)	<b>ALP 405 AA líquida</b>	189	19	151	227	669	67	535	803
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA</b>	30.2	3.8	22.6	37.8	136	14	109	163
	<b><math>\gamma</math>-G-test cinética AA líquida</b>	29.2	3.7	21.9	36.5	136	14	109	163
Lactate dehydrogenase (U/l)	<b>LDH-P UV AA</b>	350	35	280	420	722	72	578	866
	<b>LDH-P UV AA líquida</b>	354	45	265	443	730	92	547	913
	<b>LDH-L</b>	166	17	133	199	358	36	286	430
Lipase (U/l)	<b>Lipasa AA líquida</b>	39.4	4.0	31.5	47.3	57.3	5.8	45.8	68.8

Lot: 1612206210 Level 1: 201920 Level 2: 201930

**METROLAB 2300 PLUS / WIENER LAB. CM SERIES - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	<b>Uricostat enzimático AA</b>	5.20	0.47	4.26	6.14	9.90	0.89	8.12	11.68
	<b>Uricostat enz. AA líquida</b>	5.11	0.46	4.19	6.03	9.69	0.87	7.95	11.43
Albumin (g/dl)	<b>Albúmina AA</b>	4.00	0.30	3.40	4.60	2.90	0.26	2.38	3.42
Direct bilirubin (mg/dl)	<b>Bilirrubina</b>	0.14	0.05	0.04	0.24	1.01	0.10	0.81	1.21
	<b>Bilirrubina Directa AA</b>	0.21	0.05	0.10	0.32	1.04	0.21	0.62	1.46
	<b>Bilirrubina Directa AA líquida</b>	0.40	0.08	0.24	0.56	1.13	0.23	0.68	1.58
Total bilirubin (mg/dl)	<b>Bilirrubina</b>	1.04	0.13	0.78	1.30	4.56	0.46	3.65	5.47
	<b>Bilirrubina Total AA</b>	0.88	0.18	0.53	1.23	3.93	0.79	2.36	5.50
	<b>Bilirrubina Total AA líquida</b>	0.84	0.17	0.50	1.18	4.03	0.81	2.42	5.64
Calcium (mg/dl)	<b>Ca-Color AA</b>	9.47	0.67	8.14	10.80	12.8	0.9	11.0	14.6
	<b>Ca-Color Arsenazo III AA</b>	9.79	0.69	8.42	11.16	12.7	0.9	10.9	14.5
Cholesterol (mg/dl)	<b>Colestat enzimático AA</b>	247	19	210	284	101	8	86	116
	<b>Colestat enz. AA líquida</b>	249	19	212	286	102	8	87	117
Creatinine (mg/dl)	<b>Creatinina cinética AA líquida</b>	1.12	0.17	0.78	1.46	5.38	0.68	4.03	6.73
	<b>Creatinina cinética AA líquida (compensated)</b>	1.21	0.18	0.85	1.57	5.59	0.70	4.19	6.99
	<b>Creatinina enzim. AA líquida</b>	0.45	0.06	0.34	0.56	5.30	0.67	3.97	6.63
Inorganic phosphorus (mg/dl)	<b>Fosfatemia UV AA</b>	4.42	0.40	3.62	5.22	8.07	0.61	6.86	9.28
Glucose (mg/dl)	<b>Glicemia enzimática AA</b>	85.3	6.4	72.5	98.1	291	22	247	335
	<b>Glicemia enz. AA líquida</b>	86.0	6.5	73.1	98.9	292	22	248	336
HDL Cholesterol (mg/dl)	<b>HDL Colesterol monofase AA plus</b>	66.4	8.3	49.8	83.0	26.8	3.4	20.1	33.5
	<b>HDL Cholesterol fast</b>	63.6	8.0	47.7	79.5	25.3	3.2	19.0	31.6
Iron (ug/dl)	<b>Fer-color AA</b>	251	30	191	311	62.6	9.4	43.8	81.4
	<b>Fer-color AA líquida</b>	239	29	182	296	59.0	8.9	41.3	76.7
Lactate (mg/dl)	<b>Lactate</b>	36.7	3.3	30.1	43.3	11.3	1.0	9.3	13.3
LDL Cholesterol (mg/dl)	<b>LDL Colesterol monofase AA</b>	125	16	94	156	53.6	6.7	40.2	67.0
Magnesium (mg/dl)	<b>Mg-color AA</b>	2.10	0.32	1.47	2.73	4.25	0.51	3.23	5.27
	<b>Magnesium CPZ</b>	2.03	0.31	1.42	2.64	4.61	0.56	3.50	5.72
Total proteins (g/dl)	<b>Proteínas Totales AA</b>	6.72	0.41	5.91	7.53	4.43	0.27	3.90	4.96
	<b>Total Protein</b>	6.30	0.38	5.54	7.06	4.44	0.27	3.91	4.97
Triglycerides (mg/dl)	<b>TG Color GPO/PAP AA</b>	173	13	147	199	80.9	6.1	68.8	93.0
	<b>TG Color GPO/PAP AA líquida</b>	174	13	148	200	79.0	6.0	67.1	90.9
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	-	151	15	121	181

(-) Non-assigned



**METROLAB 2300 PLUS / WIENER LAB. CM SERIES - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Urea (mg/dl)	Urea UV cinética AA	35.3	5.3	24.7	45.9	105	13	80	130
	Urea UV cin.AA líquida	33.0	5.0	23.1	42.9	106	13	81	131

Lot: 1612206210 Level 1: 201920 Level 2: 201930

**METROLAB 2300 PLUS / WIENER LAB. CM SERIES - ENZYMES**

ENZYME	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA</b>	32.1	3.2	25.7	38.5	109	11	87	131
	<b>GPT (ALT) UV AA líquida</b>	29.9	3.8	22.4	37.4	107	14	80	134
Amylase (U/l)	<b>Amilasa 405 cinética AA</b>	84.1	10.5	63.1	105.1	526	66	394	658
	<b>Amilasa 405 AA líquida</b>	82.9	10.4	62.2	103.6	515	65	386	644
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA</b>	39.8	4.0	31.8	47.8	204	21	163	245
	<b>GOT (AST) UV AA líquida</b>	37.4	4.7	28.0	46.8	203	26	152	254
Cholinesterase (U/l)	<b>Colinesterasa AA</b>	2228	223	1782	2674	4534	454	3627	5441
	<b>Cholinesterase</b>	2394	240	1915	2873	4601	460	3681	5521
Creatine kinase (U/l)	<b>CK-NAC UV AA</b>	124	13	99	149	423	43	338	508
	<b>CK-NAC UV AA líquida</b>	123	16	92	154	397	50	298	496
Non-prostatic acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	4.18	0.63	2.93	5.43	4.70	0.71	3.29	6.11
Total acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	8.69	1.31	6.08	11.30	41.1	5.2	30.8	51.4
Alkaline phosphatase (U/l)	<b>ALP 405 AA líquida</b>	187	19	150	224	672	67	538	806
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA</b>	29.5	3.7	22.1	36.9	134	14	107	161
	<b><math>\gamma</math>-G-test cinética AA líquida</b>	27.8	3.5	20.8	34.8	144	15	115	173
Lactate dehydrogenase (U/l)	<b>LDH-P UV AA</b>	348	35	278	418	730	73	584	876
	<b>LDH-P UV AA líquida</b>	343	43	257	429	749	94	562	936
	<b>LDH-L</b>	173	18	138	208	371	37	297	445
Lipase (U/l)	<b>Lipasa AA líquida</b>	38.2	3.8	30.6	45.8	47.1	4.7	37.7	56.5

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**WIENER LAB. CMD 800 SERIES - METABOLITES**

METABOLITE	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Uric acid (mg/dl)	<b>Uricostat enz. AA líquida</b>	5.10	0.46	4.18	6.02	9.18	0.83	7.53	10.83
Albumin (g/dl)	<b>Albúmina AA</b>	3.97	0.30	3.37	4.57	2.85	0.26	2.34	3.36
Direct bilirubin (mg/dl)	<b>Bilirrubina Directa AA líquida</b>	0.35	0.07	0.21	0.49	0.93	0.19	0.56	1.30
Total bilirubin (mg/dl)	<b>Bilirrubina Total AA líquida</b>	1.09	0.22	0.65	1.53	5.00	1.00	3.00	7.00
Calcium (mg/dl)	<b>Ca-Color Arsenazo III AA</b>	9.87	0.69	8.49	11.25	12.3	0.9	10.6	14.0
Chloride (mEq/l)	<b>Ion-selective electrode</b>	97.4	4.9	87.7	107.1	80.5	4.1	72.4	88.6
Cholesterol (mg/dl)	<b>Colestat enz. AA líquida</b>	254	19	216	292	98.0	7.4	83.3	112.7
Creatinine (mg/dl)	<b>Creatinina cinética AA líquida (compensated)</b>	1.35	0.21	0.94	1.76	5.78	0.73	4.33	7.23
	<b>Creatinina enzym. AA líquida</b>	0.46	0.06	0.34	0.58	5.32	0.67	3.99	6.65
Inorganic phosphorous (mg/dl)	<b>Fosfatemia UV AA</b>	4.52	0.41	3.71	5.33	7.76	0.58	6.60	8.92
Glucose (mg/dl)	<b>Glicemia enz. AA líquida</b>	89.0	6.7	75.6	102.4	289	22	246	332
	<b>Glucose HK</b>	81.0	6.1	68.8	93.2	276	21	235	317
HDL Cholesterol (mg/dl)	<b>HDL Colesterol monofase AA plus</b>	73.0	9.2	54.7	91.3	28.7	3.6	21.5	35.9
	<b>HDL Cholesterol fast</b>	68.1	8.5	51.1	85.1	27.0	3.4	20.2	33.8
Iron (ug/dl)	<b>Fer-color AA líquida</b>	256	31	195	317	61.0	9.2	42.7	79.3
Lactate (mg/dl)	<b>Lactate</b>	37.2	3.4	30.5	43.9	8.80	0.79	7.22	10.38
LDL Cholesterol (mg/dl)	<b>LDL Colesterol monofase AA</b>	128	16	96	160	52.3	6.6	39.2	65.4
Magnesium (mg/dl)	<b>Magnesium CPZ</b>	2.10	0.32	1.47	2.73	4.68	0.56	3.56	5.80
Potassium (mEq/l)	<b>Ion-selective electrode</b>	3.97	0.20	3.57	4.37	6.11	0.31	5.50	6.72
Total Protein (g/dl)	<b>Proteínas Totales AA</b>	6.76	0.41	5.95	7.57	4.27	0.26	3.76	4.78
	<b>Total Protein</b>	6.65	0.40	5.85	7.45	4.22	0.26	3.71	4.73
Sodium (mEq/l)	<b>Ion-selective electrode</b>	142	7	128	156	123	6	111	135
Triglycerides (mg/dl)	<b>TG Color GPO/PAP AA líquida</b>	177	14	150	204	78.0	5.9	66.3	89.7
UIBC (ug/dl)	<b>UIBC/TIBC AA líquida</b>	-	-	-	-	135	17	101	169
Urea (mg/dl)	<b>Urea UV cinética AA líquida</b>	31.9	4.8	22.3	41.5	89.3	10.7	67.9	110.7

(-) Non-assigned

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**WIENER LAB. CMD 800 SERIES - ENZYMES**

ENZYME	REAGENT	LEVEL 1				LEVEL 2			
		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
Alanine aminotransferase (GPT/ALT) (U/l)	<b>GPT (ALT) UV AA líquida</b>	32.2	4.1	24.1	40.3	99.3	12.4	74.5	124.1
Amilase (U/l)	<b>Amilasa 405 AA líquida</b>	85.0	10.7	63.7	106.3	490	62	367	613
Aspartate aminotransferase (GOT/AST) (U/l)	<b>GOT (AST) UV AA líquida</b>	38.0	4.8	28.5	47.5	183	23	137	229
Cholinesterase (U/l)	<b>Cholinesterase</b>	2411	241	1929	2893	4390	439	3512	5268
Creatine kinase (U/l)	<b>CK-NAC UV AA líquida</b>	122	16	91	153	389	49	292	486
Non-prostatic acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	3.33	0.50	2.33	4.33	4.19	0.63	2.93	5.45
Total acid phosphatase (U/l)	<b>Fosfatasa Acida Total y Prostática cinética</b>	7.67	1.15	5.37	9.97	42.1	5.3	31.6	52.6
Alkaline phosphatase (U/l)	<b>ALP 405 AA líquida</b>	158	16	126	190	515	52	412	618
$\gamma$ -glutamyl transferase (U/l)	<b><math>\gamma</math>-G-test cinética AA líquida</b>	29.7	3.7	22.3	37.1	130	13	104	156
Lactato dehydrogenase (U/l)	<b>LDH-P UV AA líquida</b>	343	43	257	429	728	91	546	910
	<b>LDH-L</b>	171	17	137	205	356	36	285	427
Lipase (U/l)	<b>Lipasa AA líquida</b>	39.1	3.9	31.3	46.9	53.1	5.3	42.5	63.7

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**WIENER LAB. IC SERIES - IONS**

ION	LEVEL 1				LEVEL 2			
	MEAN VALUE	1 D.S.	ACCEPTABLE RANGE		MEAN VALUE	1 D.S.	ACCEPTABLE RANGE	
<b>Potassium</b> (mEq/l)	3.88	0.20	3.49	4.27	6.00	0.30	5.40	6.60
<b>Sodium</b> (mEq/l)	139	7	125	153	120	6	108	132
<b>Chloride</b> (mEq/l)	92.3	4.6	83.1	101.5	78.9	4.0	71.0	86.8
<b>Ionic calcium - Ca<sub>n</sub></b> (mmol/l)	0.88	0.08	0.72	1.04	1.20	0.13	0.94	1.46
<b>Ionic calcium - Ca<sub>i</sub></b> (mmol/l)	0.75	0.08	0.60	0.90	1.04	0.12	0.81	1.27
<b>Lithium</b> (mmol/l)	0.58	0.08	0.42	0.74	1.74	0.16	1.43	2.05

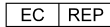
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# Symbols

The following symbols are used in the packaging for Wiener lab. diagnostic reagent kits.



This product fulfills the requirements of the European Directive 98/79 EC for "in vitro" diagnostic medical devices



Authorized representative in the European Community



"In vitro" diagnostic medical device



Contains sufficient for <n> tests



Use by



Temperature limitation (store at)



Do not freeze



Biological risks



Volume after reconstitution



Contents



Batch code



Manufactured by:



Harmful



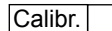
Corrosive / Caustic



Irritant



Consult instructions for use



Calibrator



Control




Positive Control



Negative Control



Catalog number

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