

# **AIRONE 200**

**INSTRUCCIONES DE TRABAJO  
DIRECTIONS FOR USE**

**AUTOMATIZACIÓN  
AUTOMATION**

**LABKIT – CLINICAL DIAGNOSTIC REAGENT**

**Preparation of working reagent:**

The reagents are ready to use and keep stable until date indicated on the label.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	ALB
TEST DEFINITION	
NAME	ALBUMINE
UNITS	g/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	3
PLASMA (µl)	
URINE (µl)	
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	400
FILTER 1	620
FILTER 2	NONE
LINEAL LIMIT	6.0
POLLUTANT	YES
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	0
MIX 2	
INCUBATION 1	300
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE		MEN		WOMEN	
	AGE	Min.	Max.	Min.	Max.
Less than	10	3.9	5.1	3.9	5.1
Between	10-60	3.9	5.1	3.9	5.1
Older than	60	3.9	5.1	3.9	5.1

**Preparation of working reagent:**

Dissolve 1 tablet R3 into one bottle of buffer R1. The working reagent is stable 4 weeks at 2-8°C. R2 is ready to use.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	UREA-B
TEST DEFINITION	
NAME	UREA
UNITS	Mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	3
PLASMA (µl)	3
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	250
R2 VOLUME (µl)	250
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	400
FILTER 1	578
FILTER 2	NONE
LINEAL LIMIT	150
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	2
MIX 2	1
INCUBATION 1	300
INCUBATION 2	240
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

	NORMAL RANGE	MEN		WOMEN	
		AGE	Min.	Max.	Min.
Less than	99	15.0	50.0	15.0	50.0
Between					
Older than					

**Preparation of working reagent:**

Dissolve 1 vial lyophilised R2 with a little quantity of buffer R1. Return to the original vial buffer when it is completely dissolved. The working reagent is stable 28 days refrigerated and keep it out of the light.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	TRIG.
TEST DEFINITION	
NAME	TRIGLYCERIDES
UNITS	Mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	5
PLASMA (µl)	5
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	-25
ABS. LIMIT HIGH	200
FILTER 1	510
FILTER 2	NONE
LINEAL LIMIT	1.000
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	0
MIX 2	0
INCUBATION 1	300
INCUBATION 2	0
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	10	30	150	30	150
Between	10-60	30	150	30	150
Older than	60	30	150	30	150

**Preparation of working reagent:**

Dissolve 1 tablet R3 into one vial of buffer or one tablet with 15 ml. of buffer, depending of the presentation. The working reagent is stable 2 weeks.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	GOT
TEST DEFINITION	
NAME	GOT/AST
UNITS	U/L.
DECIMALS	0
REACTION	KINETIC
SAMPLE VOLUME (µl)	
SERUM (µl)	45
PLASMA (µl)	45
URINE (µl)	0
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	450
R2 VOLUME (µl)	0
ABS. LIMIT LOW	900
ABS. LIMIT HIGH	2000
FILTER 1	340
FILTER 2	NONE
LINEAL LIMIT	250
POLLUTANT	NO
REAGENT BLANK	NO
DIFERENTIAL	NO
TIME	
MIX 1	2
MIX 2	
INCUBATION 1	60
INCUBATION 2	
PHASE	10
MEASUREMENT	30
MEASUREMENT TYPE	
CALIBRATION	FACTOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	10	0	38	0	38
Between	10-60	0	38	0	38
Older than	60	0	38	0	38

**Preparation of working reagent:**

Dissolve 1 vial lyophilised R2 with a little quantity of buffer R1. Return to the original vial buffer when it is completely dissolved. The working reagent is stable 1 month refrigerated and keep it out of the light.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	GLU.
TEST DEFINITION	
NAME	GLUCOSE
UNITS	Mg/dl.
DECIMALS	0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	5
PLASMA (µl)	5
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	-25
ABS. LIMIT HIGH	200
FILTER 1	510
FILTER 2	NONE
LINEAL LIMIT	500
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	0
MIX 2	
INCUBATION 1	600
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	10	55	110	55	110
Between	10-60	55	110	55	110
Older than	60	55	110	55	110

**Preparation of working reagent:**

The reagents are ready to use and keep stable until date indicated on the label.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

<b>METHOD</b>	
<b>METHOD</b>	CREA
<b>TEST DEFINITION</b>	
<b>NAME</b>	CREATININE
<b>UNITS</b>	Mg/dl.
<b>DECIMALS</b>	0.0
<b>REACTION</b>	FIXED TIME
<b>SAMPLE VOLUME (µl)</b>	
<b>SERUM (µl)</b>	45
<b>PLASMA (µl)</b>	45
<b>URINE (µl)</b>	10
<b>NORMAL RANGE (µl)</b>	
<b>TECHNIC</b>	
<b>R1 VOLUME (µl)</b>	225
<b>R2 VOLUME (µl)</b>	225
<b>ABS. LIMIT LOW</b>	0
<b>ABS. LIMIT HIGH</b>	800
<b>FILTER 1</b>	492
<b>FILTER 2</b>	NONE
<b>LINEAL LIMIT</b>	15.0
<b>POLLUTANT</b>	YES
<b>REAGENT BLANK</b>	NO
<b>DIFERENTIAL</b>	NO
<b>TIME</b>	
<b>MIX 1</b>	2
<b>MIX 2</b>	2
<b>INCUBATION 1</b>	10
<b>INCUBATION 2</b>	60
<b>PHASE</b>	10
<b>MEASUREMENT</b>	30
<b>MEASUREMENT TYPE</b>	
<b>CALIBRATION</b>	CALIBRATION
<b>FACTOR</b>	

	<b>NORMAL RANGE</b>	<b>MEN</b>		<b>WOMEN</b>	
		AGE	Min.	Max.	Min.
Less than	10	0.8	1.4	0.7	1.4
Between	10-60	0.8	1.4	0.7	1.4
Older than	60	0.8	1.4	0.7	1.4

**Preparation of working reagent:**

Dissolve 1 tablet (R2) with 25 ml. of buffer (R1). It is stable 21 days at 2-8°C or 5 days at 15-25°C.

Dissolve 1 tablet (R3) with 5 ml. of R4. It is stable 6 weeks at 2-8°C or 7 days at 15-25°C.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	CK-NAC
TEST DEFINITION	
NAME	CK-NAC
UNITS	U/L.
DECIMALS	0
REACTION	KINETIC
SAMPLE VOLUME (µl)	
SERUM (µl)	9
PLASMA (µl)	9
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	450
R2 VOLUME (µl)	45
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	2000
FILTER 1	340
FILTER 2	NONE
LINEAL LIMIT	2000
POLLUTANT	NO
REAGENT BLANK	NO
DIFERENTIAL	NO
TIME	
MIX 1	1
MIX 2	1
INCUBATION 1	120
INCUBATION 2	120
PHASE	2
MEASUREMENT	90
MEASUREMENT TYPE	
CALIBRATION	FACTOR
FACTOR	9003

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	10	24	195	24	170
Between	10-60	24	195	24	170
Older than	60	24	195	24	170

**Preparation of working reagent:**

Dissolve 1 tablet (R2) with 1 vial of buffer (R1), or with 15 ml. of buffer (R1) depending of the presentation. The monoreagent is stable 5 days at 2-8°C or 24 hours at room temperature.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	CK-NAC
TEST DEFINITION	
NAME	CK-NAC
UNITS	U/L.
DECIMALS	0
REACTION	KINETIC
SAMPLE VOLUME (µl)	
SERUM (µl)	15
PLASMA (µl)	15
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	700
FILTER 1	340
FILTER 2	NONE
LINEAL LIMIT	2000
POLLUTANT	NO
REAGENT BLANK	NO
DIFERENTIAL	NO
TIME	
MIX 1	2
MIX 2	
INCUBATION 1	150
INCUBATION 2	
PHASE	10
MEASUREMENT	60
MEASUREMENT TYPE	
CALIBRATION	FACTOR
FACTOR	5450

	NORMAL RANGE	MEN		WOMEN	
		AGE	Min.	Max.	Min.
Less than	10	24	195	24	170
Between	10-60	24	195	24	170
Older than	60	24	195	24	170

**Preparation of working reagent:**

Dissolve 1 tablet (R2) with 1 vial of buffer (R1). The monoreagent is stable 7 days at 2-8°C or 12 hours at room temperature.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	CK-MB
TEST DEFINITION	
NAME	CK-MB
UNITS	U/L.
DECIMALS	0.0
REACTION	KINETIC
SAMPLE VOLUME (µl)	
SERUM (µl)	20
PLASMA (µl)	20
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	600
FILTER 1	340
FILTER 2	NONE
LINEAL LIMIT	1000
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	2
MIX 2	
INCUBATION 1	600
INCUBATION 2	
PHASE	20
MEASUREMENT	60
MEASUREMENT TYPE	
CALIBRATION	FACTOR
FACTOR	8255

	NORMAL RANGE	MEN		WOMEN	
		AGE	Min.	Max.	Min.
Less than	99	0.0	24.0	0.0	24.0
Between					
Older than					

**Preparation of working reagent:**

The reagents are ready to use and keep stable until date indicated on the label.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	CAL-A
TEST DEFINITION	
NAME	CALCIUM
UNITS	mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	5
PLASMA (µl)	--
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	700
FILTER 1	620
FILTER 2	NONE
LINEAL LIMIT	30.0
POLLUTANT	YES
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	1
MIX 2	
INCUBATION 1	120
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	1	8.0	13.0	8.0	13.0
Between	1-12	10.0	12.0	10.0	12.0
Older than	12	9.5	11.0	9.5	11.0

**Preparation of working reagent:**

The reagents are ready to use and keep stable until date indicated on the label.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	CALCIUM
TEST DEFINITION	
NAME	CALCIUM
UNITS	mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	5
PLASMA (µl)	--
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	250
R2 VOLUME (µl)	250
ABS. LIMIT LOW	0
ABS. LIMIT HIGH	600
FILTER 1	578
FILTER 2	NONE
LINEAL LIMIT	15.0
POLLUTANT	YES
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	1
MIX 2	3
INCUBATION 1	30
INCUBATION 2	120
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	1	8.0	13.0	8.0	13.0
Between	1-12	10.0	12.0	10.0	12.0
Older than	12	9.0	11.0	9.0	11.0

**Preparation of working reagent:**

Mix 3 ml. with 0.1 ml. R2 sodium nitrite, to prepare the working reagents. This monoreagent is stable 2 days at 2-8°C.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	BIL. T
TEST DEFINITION	
NAME	TOTAL BILIRUBIN
UNITS	Mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	30
PLASMA (µl)	30
URINE (µl)	
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	-50
ABS. LIMIT HIGH	400
FILTER 1	546
FILTER 2	NONE
LINEAL LIMIT	20
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	1
MIX 2	
INCUBATION 1	300
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	1	0.0	10.0	0.0	10.0
Between	1-99	0.0	1.1	0.0	1.1
Older than					

**Preparation of working reagent:**

Mix 3 ml. with 0.1 ml. R2 sodium nitrite, to prepare the working reagents. This monoreagent is stable 2 days at 2-8°C.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	BIL. D
TEST DEFINITION	
NAME	DIRECT BILIRUBIN
UNITS	mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	30
PLASMA (µl)	30
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	-50
ABS. LIMIT HIGH	400
FILTER 1	546
FILTER 2	NONE
LINEAL LIMIT	20
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	2
MIX 2	
INCUBATION 1	300
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

	NORMAL RANGE	MEN		WOMEN	
		AGE	Min.	Max.	Min.
Less than	99	0.0	0.4	0.0	0.4
Between					
Older than					

**Preparation of working reagent:**

Dissolve 1 tablet (R2) with 1 vial of buffer (R1), or with 15 ml. of buffer (R1) depending of the presentation. The monoreagent is stable 15 days at 2-8°C or 2 days at room temperature.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	AMIL
TEST DEFINITION	
NAME	AMYLASE
UNITS	U/L.
DECIMALS	0
REACTION	KINETIC
SAMPLE VOLUME ( $\mu$ l)	
SERUM ( $\mu$ l)	12
PLASMA ( $\mu$ l)	12
URINE ( $\mu$ l)	6
NORMAL RANGE ( $\mu$ l)	
TECHNIC	
R1 VOLUME ( $\mu$ l)	500
R2 VOLUME ( $\mu$ l)	0
ABS. LIMIT LOW	900
ABS. LIMIT HIGH	2000
FILTER 1	405
FILTER 2	NONE
LINEAL LIMIT	1000
POLLUTANT	NO
REAGENT BLANK	NO
DIFERENTIAL	NO
TIME	
MIX 1	0
MIX 2	0
INCUBATION 1	60
INCUBATION 2	0
PHASE	10
MEASUREMENT	30
MEASUREMENT TYPE	
CALIBRATION	FACTOR
FACTOR	5338

NORMAL RANGE	AGE	MEN		WOMEN	
		Min.	Max.	Min.	Max.
Less than	10	0	90	0	90
Between	10-60	0	90	0	90
Older than	60	0	90	0	90

**Preparation of working reagent:**

Dissolve 1 vial lyophilised R2 with a little quantity of buffer R1. Return to the original vial buffer when it is completely dissolved. The working reagent is stable 3 weeks at 2-8°C.

**Calibration:**

Use LABTROL serum calibrator.

**Operation conditions:**

Introduce in Methods the following programation.

METHOD	
METHOD	URIC
TEST DEFINITION	
NAME	URIC ACID
UNITS	mg/dl.
DECIMALS	0.0
REACTION	ENDPOINT
SAMPLE VOLUME (µl)	
SERUM (µl)	12
PLASMA (µl)	12
URINE (µl)	3
NORMAL RANGE (µl)	
TECHNIC	
R1 VOLUME (µl)	500
R2 VOLUME (µl)	0
ABS. LIMIT LOW	-50
ABS. LIMIT HIGH	200
FILTER 1	510
FILTER 2	NONE
LINEAL LIMIT	25.0
POLLUTANT	NO
REAGENT BLANK	YES
DIFERENTIAL	NO
TIME	
MIX 1	0
MIX 2	
INCUBATION 1	240
INCUBATION 2	
PHASE	2
MEASUREMENT	
MEASUREMENT TYPE	
CALIBRATION	CALIBRATOR
FACTOR	

	NORMAL RANGE	MEN		WOMEN	
		AGE	Min.	Max.	Min.
Less than	10	3.4	7.0	2.5	6.0
Between	10-60	3.4	7.0	2.5	6.0
Older than	60	3.4	7.0	2.5	6.0