

# Clinical chemistry

## Roche Cobas<sup>®</sup>Mira programs

### Warning!

The given programs must be used only as guideline.  
To check the reagent correct setting on the instrument, use only good quality control sera and work in accordance with good laboratory practice. Always check instrumental factors.  
This company couldn't be considered responsible for instrumental wrong programming.



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**Analyzer: Cobas Mira**

Application: **ACID PHOSPHATASE (TOTAL)** - Codes AC 0120 / 0245 TC  
 Preparation: POWDER SINGLE REAGENT. FOLLOW PREPARATION PROGRAM INDICATED IN INSERT SHEET.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 10 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 2  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 25.0 µl CYCLE: 1  
 DIL: 25.0 µl

REAGENT VOL: 225 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 75 U/L  
 NORM. RANGE LOW: NO  
 HIGH: NO

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 10 LAST: 20  
 REACTION LIMIT: 0.9000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO

FACTOR: 1252

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.



**Analyzer: Cobas Mira**

Application: **ALBUMIN** - Codes BC 0500 / 1500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 600 nm  
 DECIMAL POSITION: 1  
 UNIT: g/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 g/dl  
 HIGH: 8.0 g/dl  
 NORM. RANGE LOW: 3.8 g/dl  
 HIGH: 5.1 g/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 6

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.3200 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **ALKALINE PHOSPHATASE FL** - Codes AL F245 / F400 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 5.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 5.0 µl DIL: 25.0 µl

REAGENT CYCLE: 1  
 VOL: 225 µl

**CALCULATION**

SAMPLE LIMIT: 0.2000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 1000 U/L  
 NORM. RANGE LOW: 64 U/L  
 HIGH: 306 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.4300 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 1.0000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 5514

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **AMYLASE FL** - Codes AM F120 / F245 / F600 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 7.0 µl DIL: 22.5 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 2000 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 96 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 3 LAST: 7  
 REACTION LIMIT: 0.4000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 5544

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **AMYLASE EPS FL** - Codes EA F245 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 5.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 5.0 µl DIL: 25.0 µl

REAGENT CYCLE: 1  
 VOL: 225 µl

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 5000 U/L  
 NORM. RANGE LOW: 10 U/L  
 HIGH: 220 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 8 LAST: 16  
 REACTION LIMIT: NO

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0700 A  
 HIGH: 0.8000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0200 A

FACTOR: 22000

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **PANCREATIC ISOAMYLASE FL** - Code PA F245 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 5.5 µl CYCLE: 1  
 DIL: 20.0 µl

REAGENT VOL: 250 µl CYCLE: 1

START REAGENT 1: VOL: 62 µl CYCLE: 10  
 DIL: 10.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.1500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 5000 U/L  
 NORM. RANGE LOW: 17 U/L  
 HIGH: 115 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 12 LAST: 18  
 REACTION LIMIT: 0.4000 A  
 POINT: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 30280

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **DIRECT BILIRUBIN** - Code BD 0480CH  
 Preparation: "REAGENT": USE LIQUID READY TO USE REAGENT A  
 "START REAGENT 1": MIX 10 PARTS OF REAGENT A WITH ONE PART OF REAGENT B  
 TO BE PREPARED DAILY.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL (ONLY "REAGENT")

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 550nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 25.0 µl DIL: 20.0 µl  
 REAGENT CYCLE: 1  
 VOL: 300 µl  
 START REAGENT 1 CYCLE: 4  
 VOL: 65 µl DIL: 10.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 A  
 POINT: 2  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mg/dl  
 HIGH: 20.00 mg/dl  
 NORM. RANGE LOW: 0.00 mg/dl  
 HIGH: 0.20 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 3 LAST: 6

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.0500 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.



**Analyzer: Cobas Mira**

Application: **CALCIUM** - Code CA 0500 TC  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 10 DAYS

**PROGRAM**

**GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: SELECT  
 AFTER TESTS: AMYLASE  
 WAVELENGTH: 550 nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 4.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: CB  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mg/dl  
 HIGH: 20.00 mg/dl  
 NORM. RANGE LOW: 8.80 mg/dl  
 HIGH: 10.80 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 4

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CHLORIDE** - Code CL 0500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: BEFORE  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 0  
 UNIT: mEq/l

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 400 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mEq/l  
 HIGH: 180 mEq/l  
 NORM. RANGE LOW: 98 mEq/l  
 HIGH: 110 mEq/l

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 10

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CHOLESTEROL FL** - Codes CT F400 / 150F CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: 20.0 µl

REAGENT VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 700 mg/dl  
 NORM. RANGE LOW: 140 mg/dl  
 HIGH: 200 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: T1 LAST: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1600 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **HDL-DIRECT FL** - Code HD F080 / F245 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 60 DAYS ON BOARD

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 600nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: 20.0 µl

REAGENT VOL: 180 µl

START REAGENT 1 VOL: 60 µl

CYCLE: 1  
 DIL: 10.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 A  
 POINT: 2  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 180 mg/dl  
 NORM. RANGE LOW: 35 mg/dl  
 HIGH: 55 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 10 LAST: 24

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.0500 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CHOLINESTERASE FL (DGKC)** - Codes CH F245 / F400 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 4.0 µl CYCLE: 1  
 DIL: 20.0 µl

REAGENT VOL: 200 µl CYCLE: 1

START REAGENT 1: VOL: 40 µl CYCLE: 4  
 DIL: 10.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.1500 A  
 POINT: T1  
 REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.1800  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 25000 U/L  
 NORM. RANGE LOW: 5200 U/L  
 HIGH: 11200 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 7 LAST: 10  
 REACTION LIMIT: NO

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: 0.8000 A  
 HIGH: 2.0000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 99000

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**NOTA PER L'ESECUZIONE DEL NUMERO DI DIBUCAINA:**

Preparare il reagente utilizzando il reattivo ausiliario CH F020 CH DIBUCAINA ed eseguire il test con la metodica della colinesterasi come sopra indicato.  
 Calcolare il numero di dibucaina come indicato nella metodica manuale.

**Analyzer: Cobas Mira**

Application: **CK-NAC FL** - Codes CK F120 / F245 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 11.0 µl DIL: 18.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 1200 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 190 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 6 LAST: 12  
 REACTION LIMIT: 0.6000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0100 A  
 HIGH: 0.6000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 7688

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CK-MB FL** - Code MB F120 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 14 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 11.0 µl DIL: 18.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 U/L  
 HIGH: 1200.0U/L  
 NORM. RANGE LOW: 0.0 U/L  
 HIGH: 24.0 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 10 LAST: 20  
 REACTION LIMIT: 0.6000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0100 A  
 HIGH: 0.6000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A

FACTOR: 13372

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **COPPER** - Code CU 0100 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 14 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 600 nm  
 DECIMAL POSITION: 0  
 UNIT: microg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 20.0 µl CYCLE: 1  
 DIL: 20.0 µl

REAGENT VOL: 250 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 microg/dl  
 HIGH: 500 microg/dl  
 NORM. RANGE LOW: 80 microg/dl  
 HIGH: 140 microg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 10

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CREATININE** - Code CR 0500 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: 14 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 15.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.3500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mg/dl  
 HIGH: 15.0 mg/dl  
 NORM. RANGE LOW: 0.60 mg/dl  
 HIGH: 1.20 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 2 LAST: 3

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.1000 A  
 HIGH: 0.3500 A  
 BLANK RANGE LOW: -0.0300 A  
 HIGH: 0.0300 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **CREATININE ES FL** - Code CR F200 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 10.0 µl      CYCLE: 1      DIL: 20.0 µl  
 REAGENT VOL: 200 µl      CYCLE: 1  
 START REAGENT 1: VOL: 50 µl      CYCLE: 12      DIL: 10.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.1500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 20 U/L  
 NORM. RANGE LOW: 0.6 U/L  
 HIGH: 1.2 U/L

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 18 LAST: 23

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST  
 REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0100 A  
 CALIBRATOR CUP POS: 1  
 CAL-1: USER DEF  
 REPLICATE: TRIPL.  
 DEVIATION: 10%

**CONTROL**

CS1 POS: USER DEF  
 CS2 POS: USER DEF  
 CS3 POS: USER DEF

**Analyzer: Cobas Mira**

Applicazione: **FRUCTOSAMINE** - Code FR 0048 CH  
 Preparazione: DRY POWDER SINGLE REAGENT. FOLLOW PREPARATION AS INDICATED IN INSERT SHHET..  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAMMA****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: SLOPE AVG  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 550 nm  
 DECIMAL POSITION: 0  
 UNIT: µM/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: NO  
 CONC. FACTOR: NO

SAMPLE VOL: 20.0 µl CYCLE: 1  
 DIL: 40.0 µl  
 REAGENT VOL: 200 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 µM/L  
 HIGH: 1000 µM/L  
 NORM. RANGE LOW: 0 µM/L  
 HIGH: 285 µM/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 24 LAST: 36  
 REACTION LIMIT: 0.9000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO

CALIBRATOR CUP POS: DEF.  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **GAMMA-GT FL** - Codes GT F245 / F400 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 60 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 405 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 5.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 25.0 µl DIL: 25.0 µl

REAGENT CYCLE: 1  
 VOL: 225 µl

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 650 U/L  
 NORM. RANGE LOW: 10 U/L  
 HIGH: 47 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.4300 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0700 A  
 HIGH: 0.8000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.0200 A

FACTOR: 2066

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **GLUCOSE FL** - Codes GL F400 / 150F CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: 20.0 µl

REAGENT VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 600 mg/dl  
 NORM. RANGE LOW: 60 mg/dl  
 HIGH: 110 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 15

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **GLUCOSE UV FL** - Code GL F601 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 60 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: 20.0 µl

REAGENT VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 900 mg/dl  
 NORM. RANGE LOW: 60 mg/dl  
 HIGH: 110 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 15

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.2000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **GOT/AST FL** - Codes GO F245 / F400 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 5.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 25.0 µl DIL: 25.0 µl

REAGENT CYCLE: 1  
 VOL: 225 µl

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 500 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 40 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.2000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: 0.4000 A  
 HIGH: 1.6000 A  
 BLANK RANGE LOW: -0.2000 A  
 HIGH: 0.2000 A

FACTOR: 3080

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **GPT/ALT FL** - Codes GP F245 / F400 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS

**PROGRAM**

**GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 5.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 25.0 µl DIL: 25.0 µl

REAGENT CYCLE: 1  
 VOL: 225 µl

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 500 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 40 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.2000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: 0.4000 A  
 HIGH: 1.6000 A  
 BLANK RANGE LOW: -0.2000 A  
 HIGH: 0.2000 A

FACTOR: 3080

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **IRON FZ** - Code FE F245 / F400 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 550nm  
 DECIMAL POSITION: 0  
 UNIT: µg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 50.0 µl CYCLE: 1  
 DIL: 20.0 µl  
 REAGENT VOL: 200 µl CYCLE: 1  
 START REAGENT 1 VOL: 50 µl CYCLE: 12  
 DIL: 20.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 A  
 POINT: 11  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 1000 mg/dl  
 NORM. RANGE LOW: 59 mg/dl  
 HIGH: 158 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 11 LAST: 15

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST  
 REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.0500 A  
 CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF  
 REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **LDH FL** - Codes LD F120 / F245 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: FACTOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 0  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 2.5 µl CYCLE: 1  
 DIL: 25.0 µl

REAGENT VOL: 225 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: 0.2000 A  
 POINT: T1

REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 1500 U/L  
 NORM. RANGE LOW: 225 U/L  
 HIGH: 450 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 3 LAST: 7  
 REACTION LIMIT: 0.2000 A  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: 0.3000 A  
 HIGH: 1.0000 A  
 BLANK RANGE LOW: -0.2000 A  
 HIGH: 0.2000 A

FACTOR: 30000

**CONTROL**

CS1 POS: UTIL. DEF.  
 CS2 POS: UTIL. DEF.  
 CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **LIPASE FL** - Code HD LP F245 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S-SR1  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: BEFORE  
 WAVELENGTH: 550 nm  
 DECIMAL POSITION: 1  
 UNIT: U/L

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl CYCLE: 1  
 DIL: 20.0 µl

REAGENT VOL: 300 µl CYCLE: 1

START REAGENT 1: CYCLE: 12  
 VOL: 60 µl DIL: 20.0 µl

**CALCULATION**

SAMPLE LIMIT: 0.5000 A  
 POINT: 1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 350 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 30 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 15 LAST: 19  
 REACTION LIMIT: 0.1500 A  
 POINT: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO

CALIBRATOR CUP POS: DEF  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 10%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **MAGNESIUM** - Code MG 0200 / 0500 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C (STABLE 90 days)  
 ROOM TEMPERATURE 15-30°C (STABLE 30 days)

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: SELECT  
 AFTER TESTS: CHOL TRIG ALP  
 WAVELENGTH: 500nm  
 DECIMAL POSITION: 2  
 UNIT: mEq/l

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: NO  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mEq/l  
 HIGH: 10.00 mEq/l  
 NORM. RANGE LOW: 1.30 mEq/l  
 HIGH: 2.10 mEq/l

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 4

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 10%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **PHOSPHORUS** - Code PH 0500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: SELECT  
 AFTER TESTS: LDH - URIC - GLUC  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.2000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 mg/dl  
 HIGH: 15.0 mg/dl  
 NORM. RANGE LOW: 3.0 mg/dl  
 HIGH: 4.5 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **PROTEINS HS** - Code HS 0500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 600 nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.3500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 350 mg/dl  
 NORM. RANGE LOW: 28 mg/dl  
 HIGH: 141 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: T1 LAST: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 10%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **PROTEINS (TOTAL)** - Codes TP 0500 / 1500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 550 nm  
 DECIMAL POSITION: 1  
 UNIT: g/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl CYCLE: 1  
 DIL: 20.0 µl

REAGENT VOL: 250 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: 0.3500 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 g/dl  
 HIGH: 12.0 g/dl  
 NORM. RANGE LOW: 6.30 g/dl  
 HIGH: 8.40 g/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 12

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0100 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0100 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **TRIGLYCERIDES FL** - Codes TR F400 / 150F CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UP TO DECLARED EXPIRATION ON REAGENT LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 500 nm  
 DECIMAL POSITION: 0  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: 20.0 µl

REAGENT VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 1000 mg/dl  
 NORM. RANGE LOW: 10 mg/dl  
 HIGH: 190 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 13

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1800 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.1800 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **UREA UV FL** - Codes AZ F245 / F400 / F600 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 60 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: SELECT  
 AFETER TESTS: IRON  
 WAVELENGTH: 340 nm  
 DECIMAL POSITION: 1  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 3.0 µl DIL: CYCLE: 1 20.0 µl

REAGENT VOL: 250 µl CYCLE: 1

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 mg/dl  
 HIGH: 300.0 mg/dl  
 NORM. RANGE LOW: 10.0 mg/dl  
 HIGH: 50.0 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 3 LAST: 5

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: 0.4000 A  
 HIGH: 1.4000 A  
 BLANK RANGE LOW: -0.0300 A  
 HIGH: 0.1000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **URIC ACID T FL** - Code AU F402 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 90 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 550 nm  
 DECIMAL POSITION: 2  
 UNIT: mg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE VOL: 8.0 µl DIL: 20.0 µl

REAGENT VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mg/dl  
 HIGH: 25.00 mg/dl  
 NORM. RANGE LOW: 3.50 mg/dl  
 HIGH: 7.00 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 16

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.1600 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.1000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.

**Analyzer: Cobas Mira**

Application: **ZINC** - Code ZN 0125 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 14 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: NO  
 WAVELENGTH: 600 nm  
 DECIMAL POSITION: 0  
 UNIT: microg/dl

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO

SAMPLE CYCLE: 1  
 VOL: 15.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 A  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 microg/dl  
 HIGH: 500 microg/dl  
 NORM. RANGE LOW: 70 microg/dl  
 HIGH: 115 microg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: CB LAST: 10

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST

REAGENT BLANK  
 REAG. RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A  
 BLANK RANGE LOW: -0.0500 A  
 HIGH: 0.5000 A

CALIBRATOR CUP POS: 1  
 CAL-1: UTIL. DEF

REPLICATE: TRIPL.  
 DEVIATION: 6%

**CONTROL**

CS1 POS: UTIL. DEF.

CS2 POS: UTIL. DEF.

CS3 POS: UTIL. DEF.