

# Chimica clinica

## programmazione

### Roche Cobas® Mira

#### Attenzione!

I programmi forniti devono essere utilizzati esclusivamente come linee guida. Utilizzare sempre sieri di controllo di qualità così come una corretta pratica di laboratorio per verificare la corretta messa a punto del reagente sullo strumento. Verificare i fattori strumentali.

L'azienda non può essere ritenuta responsabile per una non corretta programmazione dello strumento.

**Analizzatore: Cobas Mira**

Applicazione: **ACIDO URICO T FL** - Codice AU F402 CH  
 Preparazione: COME DA METODICA MANUALE  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 CYCLE: 1  
 VOL: 8.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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: 7.20 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.

**Analizzatore: Cobas Mira**

Applicazione: **ALBUMINA** - Codice BC 0500 CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **TEMPERATURA AMBIENTE (2-30°C)**

**PROGRAMMA****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 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 g/dl  
 HIGH: 6.0 g/dl  
 NORM. RANGE LOW: 4.2 g/dl  
 HIGH: 5.5 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.

**Analizzatore: Cobas Mira**

Applicazione: **AMILASI FL** - Codici AM F120 / F245 CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

**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: 20 µl  
  
 REAGENT CYCLE: 1  
 VOL: 260 µl

**CALCULATION**

SAMPLE LIMIT: 0.1500 ΔA  
 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 ΔA  
 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: 5296

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **AMILASI EPS FL (IFCC)** - Codice EA F245 CH  
 Preparazione: COME DA METODICA MANUALE (STARTER CAMPIONE)  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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: 8.0 µl DIL: 20.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 220 µl

**CALCULATION**

SAMPLE LIMIT: NO  
  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000  
  
 TEST RANGE LOW: 0 U/L  
 HIGH: 1500 U/L  
 NORM. RANGE LOW: 28 U/L  
 HIGH: 100 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: 5800

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **ISOAMILASI PANCREATICA FL (IFCC)** - Codici PA F245 CH

Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - INSTALLARE COME "START REAGENT 1"

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 CYCLE: 1  
 VOL: 6 µl DIL: 10.0 µl

REAGENT CYCLE: 1  
 VOL: 230 µl

START REAGENT 1: CYCLE: 10  
 VOL: 50 µl DIL: 10.0 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 2500 U/L  
 NORM. RANGE LOW: 13 U/L  
 HIGH: 53 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 12 LAST: 18  
 REACTION LIMIT: 0.4000 ΔA  
 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: 10460

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **BILIRUBINA TOTALE** - Codice BT 0360 CH

Preparazione: "REAGENT": UTILIZZARE IL REAGENTE A LIQUIDO PRONTO PER L'USO  
 "START REAGENT 1": MESCOLARE 30 PARTI DI REAGENTE B1 CON UNA PARTE DI REAGENTE B2. PREPARARE GIORNALMENTE.

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**GENERAL**

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

**ANALYSIS**

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

SAMPLE VOL: 12.0 µl DIL: 20.0 µl CYCLE: 1  
 REAGENT VOL: 250 µl CYCLE: 1  
 START REAGENT 1 VOL: 60 µl DIL: 10.0 µl CYCLE: 4

**CALCULATION**

SAMPLE LIMIT: 0.3000 ΔA  
 POINT: 2  
 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: 0.00 mg/dl  
 HIGH: 1.20 mg/dl

NUMBER OF STEPS: 1

CALC. STEP A: ENDPOINT  
 READINGS FIRST: 3 LAST: 12

**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.

**Analizzatore: Cobas Mira**

Applicazione: **BILIRUBINA DIRETTA** - Codice BD 0480CH

Preparazione: "REAGENT": UTILIZZARE IL REAGENTE A LIQUIDO PRONTO PER L'USO  
 "START REAGENT 1": MESCOLARE 30 PARTI DI REAGENTE B1 CON UNA PARTE DI REAGENTE B2. PREPARARE GIORNALMENTE.

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 ΔA  
 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.

**Analizzatore: Cobas Mira**

Applicazione: **CALCIO** - Codice CA 0505 CH  
 Preparazione: COME DA METODICA MANUALE  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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 ΔA  
 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: 8.60 mg/dl  
 HIGH: 10.30 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.

**Analizzatore: Cobas Mira**

Applicazione: **CK-NAC FL** - Codici CK F120 / F245 CH  
 Preparazione: COME DA METODICA MANUALE (STARTER CAMPIONE)  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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: 10.0 µl DIL: 10.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 ΔA  
 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: 24 U/L  
 HIGH: 204 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 6 LAST: 12  
 REACTION LIMIT: 0.6000 ΔA  
 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: 6878

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **CK-MB FL** - Codici MB F120 CH  
 Preparazione: COME DA METODICA MANUALE (STARTER CAMPIONE)  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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: 10.0 µl DIL: 10.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: 0.3000 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 U/L  
 HIGH: 1000.0 U/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 ΔA  
 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: 13750

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **CLORO** - Codice CL 0500 CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **TEMPERATURA AMBIENTE (2-30°C)**

**PROGRAMMA**

**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 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mEq/L  
 HIGH: 200 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.

**Analizzatore: Cobas Mira**

Applicazione: **COLESTEROLO FL** - Codice CT F400 / 150F CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

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

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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.

**Analizzatore: Cobas Mira**

Applicazione: **HDL-DIRECT FL** - Codice HD F080 / F245 CH  
 Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - INSTALLARE COME "START REAGENT 1"  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl  
 REAGENT CYCLE: 1  
 VOL: 180 µl  
 START REAGENT 1 CYCLE: 12  
 VOL: 60 µl DIL: 10.0 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 220 mg/dl  
 NORM. RANGE LOW: 35.3 mg/dl  
 HIGH: 79.5 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.

**Analizzatore: Cobas Mira**

Applicazione: **LDL-DIRECT FL** - Codice DL F080 CH  
 Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - INSTALLARE COME "START REAGENT 1"  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl  
 REAGENT CYCLE: 1  
 VOL: 180 µl  
 START REAGENT 1 CYCLE: 12  
 VOL: 60 µl DIL: 10.0 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 400 mg/dl  
 NORM. RANGE LOW: 76 mg/dl  
 HIGH: 218 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.

**Analizzatore: Cobas Mira**

Applicazione: **COLINESTERASI FL (DGKC)** - Codici CH F245 CH  
 Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - INSTALLARE COME "START REAGENT 1"  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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 CYCLE: 1  
 VOL: 4.8 µl DIL: 10.0 µl

REAGENT CYCLE: 1  
 VOL: 230 µl

START REAGENT 1: CYCLE: 4  
 VOL: 38 µl DIL: 10.0 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.1000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 25000 U/L  
 NORM. RANGE LOW: 5600 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.

**Analizzatore: Cobas Mira**Applicazione: **CREATININA** - Codice CR 0500 CH

Preparazione: COME DA METODICA MANUALE

Conservazione: TEMPERATURA AMBIENTE (2-30°C)

**PROGRAMMA****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 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mg/dl  
 HIGH: 20.0 mg/dl  
 NORM. RANGE LOW: 0.70 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.

**Analizzatore: Cobas Mira**

Applicazione: **FERRO FZ** - Codice FE F245 / FE F400 CH  
 Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - PREPARARE COME INDICATO IN METODICA MANUALE  
 ED INSTALLARE COME "START REAGENT 1"  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

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

**CALCULATION**

SAMPLE LIMIT: 0.3000 ΔA  
 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.

**Analizzatore: Cobas Mira**

Applicazione: **FOSFATASI ACIDA TOTALE** - Codici AC 0120 TC  
 Preparazione: **MONOREATTIVO IN POLVERE. SEGUIRE LE MODALITA' DI PREPARAZIONE INDICATE NELLA METODICA MANUALE.**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

**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

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST  
 REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO  
 FACTOR: 1421

**ANALYSIS**

SAMPLE DIL. NAME: H2O  
 POST. DIL. FACTOR: 2.00  
 CONC. FACTOR: NO  
 SAMPLE CYCLE: 1  
 VOL: 25.0 µl DIL: 25.0 µl  
 REAGENT CYCLE: 1  
 VOL: 225 µl

**CONTROL**

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

**CALCULATION**

SAMPLE LIMIT: NO  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000  
 TEST RANGE LOW: 0 U/L  
 HIGH: 60 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 ΔA  
 POINT: T1

**Analizzatore: Cobas Mira**

Applicazione: **FOSFATASI ACIDA NON PROSTATICA** - Codici AC 0120 TC  
 Preparazione: **MONOREATTIVO IN POLVERE. SEGUIRE LE MODALITA' DI PREPARAZIONE INDICATE NELLA METODICA MANUALE. AGGIUNGERE LA QUANTITA' PREVISTA DI L-TARTRATO.**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

**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 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: 60 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 ΔA  
 POINT: T1

**CALIBRATION**

CALIB. INTERVAL: ON REQUEST  
  
 REAGENT BLANK  
 REAG. RANGE LOW: NO  
 HIGH: NO  
 BLANK RANGE LOW: NO  
 HIGH: NO  
  
 FACTOR: 1421

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **FOSFATASI ALCALINA FL** - Codici AL F245 / F400 / F600 CH  
 Preparazione: COME DA METODICA MANUALE (STARTER CAMPIONE)  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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: 10.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: 0.2000 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 2800 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 270 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.4300 ΔA  
 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: 4595

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **FOSFORO** - Codice PH 0500 CH  
 Preparazione: MONOREATTIVO LIQUIDO PRONTO PER L'USO  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.0 mg/dl  
 HIGH: 20.0 mg/dl  
 NORM. RANGE LOW: 2.5 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.

**Analizzatore: Cobas Mira**

Applicazione: **GAMMA-GT FL** - Codici GT F245 / F400 / F600 CH  
 Preparazione: COME DA METODICA MANUALE (STARTER CAMPIONE)  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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: 10.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: NO  
  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000  
  
 TEST RANGE LOW: 0 U/L  
 HIGH: 800 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 50 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.4300 ΔA  
 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: 2130

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **GLUCOSIO FL** - Codice GL F400 / 150F CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

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

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 500 mg/dl  
 NORM. RANGE LOW: 70 mg/dl  
 HIGH: 105 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.

**Analizzatore: Cobas Mira**Applicazione: **GLUCOSIO UV FL** - Codice GL F601 CH

Preparazione: COME DA METODICA MANUALE

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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: 70 mg/dl  
 HIGH: 105 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.

**Analizzatore: Cobas Mira**

Applicazione: **GOT/AST FL** - Codici GO F245 / F400 / F600 CH  
 Preparazione: **COME DA METODICA MANUALE (STARTER CAMPIONE)**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA**

**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: 10.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: NO  
  
 REAC. DIRECTION: DECREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000  
  
 TEST RANGE LOW: 0 U/L  
 HIGH: 440 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 35 U/L  
  
 NUMBER OF STEPS: 1  
  
 CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.2000 ΔA  
 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: 2910

**CONTROL**

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

**Analizzatore: Cobas Mira**Applicazione: **GPT/ALT FL** - Codici GP F245 / F400 / F600 CH

Preparazione: COME DA METODICA MANUALE

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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: 10.0 µl

REAGENT CYCLE: 1  
 VOL: 240 µl

**CALCULATION**

SAMPLE LIMIT: NO

REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 440 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 45 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 4 LAST: 8  
 REACTION LIMIT: 0.2000 ΔA  
 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: 2910

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **LDH FL** - Codici LD F120 / F245 CH  
 Preparazione: **COME DA METODICA MANUALE (STARTER CAMPIONE)**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA****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: 3.0 µl DIL: 20.0 µl  
  
 REAGENT CYCLE: 1  
 VOL: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.2000 ΔA  
 POINT: T1

REAC. DIRECTION: DECREASE  
 CHECK: ON

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 4000 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 ΔA  
 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: 26715

**CONTROL**

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

**Analizzatore: Cobas Mira**

Applicazione: **LIPASI FL** - Codice LP F060 CH  
 Preparazione: REAGENTE A - INSTALLARE COME "REAGENT"  
 REAGENTE B - INSTALLARE COME "START REAGENT 1"  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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 CYCLE: 1  
 VOL: 2.5 µl DIL: 15.0 µl

REAGENT CYCLE: 1  
 VOL: 250 µl

START REAGENT 1: CYCLE: 4  
 VOL: 50 µl DIL: 10.0 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 U/L  
 HIGH: 250 U/L  
 NORM. RANGE LOW: 0 U/L  
 HIGH: 63 U/L

NUMBER OF STEPS: 1

CALC. STEP A: KINETIC  
 READINGS FIRST: 6 LAST: 10  
 REACTION LIMIT: NO

**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.

**Analizzatore: Cobas Mira**

Applicazione: **MAGNESIO** - Codice MG 0200 / 0500 CH  
 Preparazione: COME DA METODICA MANUALE  
 Conservazione: REFRIGERATO A 2-8°C (STABILE 90 gg.)  
 TEMPERATURA AMBIENTE 15-30°C (STABILE 30 gg.)

**PROGRAMMA****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: 280 µl

**CALCULATION**

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

CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0.00 mEq/L  
 HIGH: 8.00 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.

**Analizzatore: Cobas Mira**

Applicazione: **PROTEINE TOTALI** - Codici TP 0500 CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **TEMPERATURA AMBIENTE (2-30°C)**

**PROGRAMMA****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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.3500 ΔA  
 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: 8.30 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.

**Analizzatore: Cobas Mira**

Applicazione: **PROTEINE HS** - Codice HS 0500 CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **TEMPERATURA AMBIENTE (2-30°C)**

**PROGRAMMA**

**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: 2.5 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 300 µl

**CALCULATION**

SAMPLE LIMIT: 0.3500 ΔA  
 POINT: T1  
 REAC. DIRECTION: INCREASE  
 CHECK: ON  
  
 CONVERS. FACTOR: 1.0000  
 OFFSET: 0.0000

TEST RANGE LOW: 0 mg/dl  
 HIGH: 500 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.

**Analizzatore: Cobas Mira**

Applicazione: **RAME** - Codice CU 0100 CH  
 Preparazione: COME DA METODICA MANUALE  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****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: 20.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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: 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.

**Analizzatore: Cobas Mira**

Applicazione: **TRIGLICERIDI FL** - Codice TR F400 / 150F CH  
 Preparazione: **MONOREATTIVO LIQUIDO PRONTO PER L'USO**  
 Conservazione: **REFRIGERATO A 2-8°C**

**PROGRAMMA****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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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: 0 mg/dl  
 HIGH: 200 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.

**Analizzatore: Cobas Mira**Applicazione: **UREA UV FL** - Codice AZ F245 / F400 / F600 CH

Preparazione: COME DA METODICA MANUALE

Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA****GENERAL**

MEASUREMENT MODE: ABSORB  
 REACTION MODE: R-S  
 CALIBRATION MODE: CALIBRATOR  
 REAGENT BLANK: REAG/DIL  
 CLEANER: SELECT  
 AFTER 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 CYCLE: 1  
 VOL: 3.0 µl DIL: 20.0 µl

REAGENT CYCLE: 1  
 VOL: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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.

**Analizzatore: Cobas Mira**

Applicazione: **ZINCO** - Codice ZN 0125 CH  
 Preparazione: COME DA METODICA MANUALE  
 Conservazione: REFRIGERATO A 2-8°C

**PROGRAMMA**

**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: 280 µl

**CALCULATION**

SAMPLE LIMIT: 0.1000 ΔA  
 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: 150 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.