

# Clinical chemistry

## Roche Cobas<sup>®</sup> Fara 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.

**Chema**  
D I A G N O S T I C A

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**Analyzer: Cobas Fara**

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

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 405 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 15.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 130 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 300.0 s  
 NUMBER: : 15  
 INTERVAL : 20 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0.00 IU/l  
 HIGH : 75.00 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.00 IU/l  
 HIGH : 4.70 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 1  
 LAST : 15  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 FACTOR : 750.00  
 REAGENT RANGE LOW : 0.0005 A  
 HIGH : 0.8000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **ACID PHOSPHATASE (NON PROSTATIC)** - Codes AC 0120 / 0245 TC  
 Preparation: POWDER SINGLE REAGENT. FOLLOW PREPARATION PROGRAM INDICATED IN INSERT SHEET.  
 ADD THE RIGHT QUANTITY OF L-TARTRATE.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 10 DAYS

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 405 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 15.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 130 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 300.0 s  
 NUMBER: : 15  
 INTERVAL : 20 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0.00 IU/l  
 HIGH : 75.00 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.00 IU/l  
 HIGH : 4.70 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 1  
 LAST : 15  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 FACTOR : 750.00  
 REAGENT RANGE LOW : 0.0005 A  
 HIGH : 0.8000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 600 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : g/dl

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0.00 g/dl  
 HIGH : 8.00 g/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 3.80 g/dl  
 HIGH : 5.10 g/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.0002 A  
 HIGH : 0.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 405 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 5.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 225 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 15 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 40  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 700 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 64 IU/l  
 HIGH : 306 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 12  
 LAST : 36  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 FACTOR : 2757.00  
 REAGENT RANGE LOW : 0.0500 A  
 HIGH : 1.3000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **AMYLASE FL** - Codes AM F120 / F245 / F600 CH

Preparation: LIQUID READY TO USE SINGLE REAGENT

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 405 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 6.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 24.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 220 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 15 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 40  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 2000 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 96 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 12  
 LAST : 36  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 3178.00  
 REAGENT RANGE LOW : 0.0010 A  
 HIGH : 1.0000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **AMYLASE EPS FL** - Codes EA F245 / F600 CH

Preparation: AS INDICATED IN INSERT SHEET

Storage: REFRIGERATE AT 2-8°C

Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 405 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 5.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 225 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 24  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 5000 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 220 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 12  
 LAST : 24  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 13920  
 REAGENT RANGE LOW : 0.0000 A  
 HIGH : 0.8000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **PANCREATIC ISOAMYLASE FL** - Code PA F245 CHPreparation: REAGENT A - INSTALL AS "REAGENT 1"  
REAGENT B - INSTALL AS "START REAGENT 1"

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-I-SR1-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 405 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 4.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 180 µl  
 TIME CONTROL : NO

I INCUBATION : 300 s  
 M : NO s  
 M : NO s

SR1 START REAG 1 : 50.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF

T TEMP DELAY : 0 s

A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 21  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 5000 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 17 IU/l  
 HIGH : 115 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 7  
 LAST : 21

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST

FACTOR : 15140.00  
 REAGENT RANGE LOW : 0.0005 A  
 HIGH : 0.5000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST

MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **TOTAL BILIRUBIN** - Code BT 0360 CH  
 Preparation: "REAGENT 1": USE LIQUID READY TO USE REAGENT A  
 "START REAGENT 1": MIX 30 PARTS OF REAGENT B1 WITH ONE PART OF REAGENT B2.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: REAGENT 1: UNTIL EXPIRATION - START REAGENT 1: PREPARE DAILY

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-S-I-SR1-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 510 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 200 µl  
 TIME CONTROL : NO s  
 S SAMPLE VOLUME : 10.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 SR1 START REAG 1 : 50.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 20  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0.00 mg/dl  
 HIGH : 20.00 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.10 mg/dl  
 HIGH : 1.20 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 20

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
  
 REAGENT RANGE LOW : 0.0002 A  
 HIGH : 0.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **DIRECT BILIRUBIN** - Code BD 0480CH

Preparation: "REAGENT 1": USE LIQUID READY TO USE REAGENT A

"START REAGENT 1": MIX 30 PARTS OF REAGENT A WITH ONE PART OF REAGENT B.

Storage: REFRIGERATE AT 2-8°C

Stability: REAGENT 1: UNTIL EXPIRATION - START REAGENT 1: PREPARE DAILY

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-S-I-SR1-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 546 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 200 µl  
 TIME CONTROL : NO s  
 S SAMPLE VOLUME : 10.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 SR1 START REAG 1 : 50.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF

A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 20  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0.00 mg/dl  
 HIGH : 20.00 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.10 mg/dl  
 HIGH : 1.20 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 20

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0002 A  
 HIGH : 0.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **CALCIUM** - Code CA 0500 TC  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 14 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABSORB  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 570 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 5.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 12  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 20 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 8.80 mg/dl  
 HIGH : 10.80 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 12

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0500 A  
 HIGH : 0.7500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **CALCIUM ASX** - Code CA 0500 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABSORB  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 660 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 12  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 20 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 8.80 mg/dl  
 HIGH : 10.80 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 12

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0500 A  
 HIGH : 1.5000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 470 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : meq/l

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 2.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 meq/l  
 HIGH : 200 meq/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 98 meq/l  
 HIGH : 110 meq/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0050 A  
 HIGH : 0.5000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **CHOLESTEROL FL** - Codes CT F400 / 150F CH

Preparation: LIQUID READY TO USE SINGLE REAGENT

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 300 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 1000 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 140 mg/dl  
 HIGH : 200 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : DEUSER F  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **HDL DIRECT FL** - Code HD F245 CH  
 Preparation: REAGENT A - INSTALL AS "REAGENT 1"  
 REAGENT B - INSTALL AS "START REAGENT 1"  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-I-SR1-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL  
 WAVELENGTH : 600 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 2.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 180 µl  
 TIME CONTROL : NO  
 I INCUBATION : 300 s  
 M 1 : 295 s  
 M : NO s  
 SR1 START REAG 1 : 60.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 250 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 35 IU/l  
 HIGH : 55 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **CHOLINESTERASE** - Code CH F245 / F400 CH

Preparation: REAGENT A - INSTALL AS "REAGENT 1"  
REAGENT B - INSTALL AS "START REAGENT 1"

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
REACTION MODE : P-I-SR1-T-A  
CALIBRATION MODE : FACTOR  
REAGENT BLANK : REAG/DIL  
  
WAVELENGTH : 405 nm  
  
TEMPERATURE : 37.0 °C  
DECIMAL POSITION : 0  
UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 4.0 µl  
DILUENT NAME : H2O  
VOLUME : 10.0 µl  
CLEANER CYCLE : ON  
REAGENT VOLUME : 200 µl  
TIME CONTROL : NO  
I INCUBATION : 120 s  
M : NO s  
M : NO s  
SR1 START REAG 1 : 40.0 µl  
DILUENT NAME : H2O  
VOLUME : 10.0 µl  
TIME CONTROL : NO s  
WET CYCLE : OFF  
T TEMP DELAY : 0 s  
A READINGS  
FIRST : 10.0 s  
NUMBER: : 24  
INTERVAL : 10 s  
M : NO s  
M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
REACTION DIRECTION: : DECREASE  
CHECK : ON  
CONVERSION FACTOR : 1.00000  
OFFSET : 0.00000  
TEST RANGE LOW : 0 IU/l  
HIGH : 25000 IU/l  
RANGE TYPE : NORM RANGE  
NORM RANGE LOW : IU/l  
HIGH : IU/l  
  
NUMBER OF STEPS : 1  
CALCULATION STEP A : KINETIC  
FIRST : 15  
LAST : 24

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
FACTOR : 131600.00  
REAGENT RANGE LOW : 0.8000 A  
HIGH : 2.0000 A  
BLANK RANGE LOW : NO A  
HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
MONTHLY REPORT : USER DEF  
CS1 POSITION : USER DEF  
  
CS2 POSITION : USER DEF  
  
CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 9.6 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.4 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 220 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 1200 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 190 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 18  
 LAST : 30  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 4127.00  
 REAGENT RANGE LOW : 0.0100 A  
 HIGH : 1.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 1  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 9.6 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.4 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 220 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 40  
 INTERVAL : 15 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 1200 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 24 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 20  
 LAST : 40  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 8254.00  
 REAGENT RANGE LOW : 0.0100 A  
 HIGH : 1.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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 : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 580 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : µg/dl

**ANALYSIS**

R1 REAGENT 1 : 220 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 11.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 19.0 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 µg/dl  
 HIGH : 500 µg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 80 µg/dl  
 HIGH : 140 µg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USSER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0500 A  
 HIGH : 0.7500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **CREATININE** - Code CR 0500 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: ROOM TEMPERATURE (2-30°C)  
 Stability: 10 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 15.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 150 µl  
 TIME CONTROL : NO s

A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 12  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 18 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.6 mg/dl  
 HIGH : 1.2 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 3  
 LAST : 9

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0100 A  
 HIGH : 1.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-I-SR1-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL  
 WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 10.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 15.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 200 µl  
 TIME CONTROL : NO  
 I INCUBATION : 300 s  
 M 1 : NO s  
 M : NO s  
 SR1 START REAG 1 : 50.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF  
 A READINGS  
 FIRST : 10 s  
 NUMBER: : 24  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 25 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0.60 IU/l  
 HIGH : 1.20 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 12  
 LAST : 24

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **GAMMA-GT FL** - Codes GT F245 / F400 / F600 CH

Preparation: AS INDICATED IN INSEERT SHEET

Storage: REFRIGERATE AT 2-8°C

Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 405 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 23.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 27.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 200 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 40  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 600 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 10 IU/l  
 HIGH : 47 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 12  
 LAST : 36  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 1346.00  
 REAGENT RANGE LOW : 0.0100 A  
 HIGH : 1.5000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **GLUCOSE FL** - Codes GL F400 / 150F CH

Preparation: LIQUID READY TO USE SINGLE REAGENT

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 300 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 500 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 60 mg/dl  
 HIGH : 110 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **GLUCOSE UV FL** - Codes GL F601 CH  
 Preparation: AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 90 DAYS

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 340 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
     VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 300 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
     FIRST : 0.5 s  
     NUMBER: : 30  
     INTERVAL : 10 s  
     M : NO s  
     M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
     CHECK : ON  
 CONVERSION FACTOR : 1.00000  
     OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
     HIGH : 1000 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 60 mg/dl  
     HIGH : 110 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
     FIRST : 1  
     LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
  
 REAGENT RANGE LOW : 0.0020 A  
     HIGH : 0.4000 A  
 BLANK RANGE LOW : NO A  
     HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 23.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 27.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 200 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 48  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : DECREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 440 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 40 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 18  
 LAST : 48  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 1746.00  
 REAGENT RANGE LOW : 0.9000 A  
 HIGH : 2.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 340 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 23.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 27.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 200 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 48  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : DECREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 440 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 0 IU/l  
 HIGH : 40 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 18  
 LAST : 48  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 FACTOR : 1746.00  
 REAGENT RANGE LOW : 0.9000 A  
 HIGH : 2.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **IRON CRX** - Code FE 0500 CH  
 Preparation: LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (15-30°C)  
 Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 630 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : µg/dl

**ANALYSIS**

R1 REAGENT 1 : 250 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 10.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 µg/dl  
 HIGH : 500 µg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 59 µg/dl  
 HIGH : 158 µg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.1500 A  
 HIGH : 0.7500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM**

**GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-S-I-SR1-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL  
  
 WAVELENGTH : 565 nm  
  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : microg/dl

**ANALYSIS**

R1 REAGENT 1 : 160 µl  
 TIME CONTROL : NO  
 P SAMPLE VOLUME : 40.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO  
 I INCUBATION : 300 s  
 M 1 : 280 s  
 M : NO s  
 SR1 START REAG 1 : 40.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 10.0 µl  
 TIME CONTROL : NO s  
 WET CYCLE : OFF  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 12  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 1000 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 39 IU/l  
 HIGH : 159 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 12

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
  
 REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.4000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
  
 CS2 POSITION : USER DEF  
  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : FACTOR  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : IU/l

**ANALYSIS**

P SAMPLE VOLUME : 2.5 µl  
 DILUENT NAME : H2O  
 VOLUME : 17.5 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 230 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 15 s  
 A READINGS  
 FIRST : 10.0 s  
 NUMBER: : 25  
 INTERVAL : 5 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : DECREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 IU/l  
 HIGH : 1200 IU/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 225 IU/l  
 HIGH : 450 IU/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : KINETIC  
 FIRST : 12  
 LAST : 24  
 REACTION LIMIT : NO A

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 FACTOR : 16030.00  
 REAGENT RANGE LOW : 0.9000 A  
 HIGH : 2.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

Application: **MAGNESIUM** - Code MG 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 : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : meq/l

**ANALYSIS**

R1 REAGENT 1 : 227 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 6  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 meq/l  
 HIGH : 10 meq/l  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 1.30 meq/l  
 HIGH : 2.10 meq/l

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 6

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.0500 A  
 HIGH : 1.0000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABSORB  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 15 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 4.00 mg/dl  
 HIGH : 6.50 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.1000 A  
 HIGH : 0.7500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 600 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

R1 REAGENT 1 : 225 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.5 µl  
 DILUENT NAME : H2O  
 VOLUME : 21.5 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 500 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 28 mg/dl  
 HIGH : 141 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 546 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 2  
 UNIT : g/dl

**ANALYSIS**

R1 REAGENT 1 : 300 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 g/dl  
 HIGH : 12 g/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 6.3 g/dl  
 HIGH : 8.4 g/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.0002 A  
 HIGH : 0.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **TRIGLYCERIDES FL** - Codes CT F400 / 150F CH

Preparation: LIQUID READY TO USE SINGLE REAGENT

Storage: REFRIGERATE AT 2-8°C

Stability: UNTIL EXPIRATION DATE ON LABEL

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 510 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 300 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 1000 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 10 mg/dl  
 HIGH : 190 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%  
 REAGENT RANGE LOW : 0.0020 A  
 HIGH : 0.2500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**Application: **UREA UV FL** - Codes AZ F245 / F400 / F600 CH

Preparation: AS INDICATED IN INSERT SHEET

Storage: REFRIGERATE AT 2-8°C

Stability: 30 DAYS

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 340 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 1  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 3.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 300 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 10 s  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 10  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : DECREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 300 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 10 mg/dl  
 HIGH : 50 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 3  
 LAST : 9

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.1150 A  
 HIGH : 2.5000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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 : ABS  
 REACTION MODE : P-T-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 546 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 1  
 UNIT : mg/dl

**ANALYSIS**

P SAMPLE VOLUME : 5.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 20.0 µl  
 CLEANER CYCLE : ON  
 REAGENT VOLUME : 200 µl  
 TIME CONTROL : NO s  
 T TEMP DELAY : 0 s  
 A READINGS  
 FIRST : 0.5 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 mg/dl  
 HIGH : 25 mg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 3.5 mg/dl  
 HIGH : 7.0 mg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : 1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF  
 REPLICATE : TRIPLICATE  
 DEVIATION : 10%

REAGENT RANGE LOW : 0.0002 A  
 HIGH : 0.1000 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF

**Analyzer: Cobas Fara**

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

**PROGRAM****GENERAL**

MEASUREMENT MODE : ABS  
 REACTION MODE : R1-I-S-A  
 CALIBRATION MODE : SLOPE AVG  
 REAGENT BLANK : REAG/DIL

WAVELENGTH : 575 nm  
 TEMPERATURE : 37.0 °C  
 DECIMAL POSITION : 0  
 UNIT : µg/dl

**ANALYSIS**

R1 REAGENT 1 : 220 µl  
 TIME CONTROL : NO s  
 I INCUBATION : 10 s  
 M 1 : 10.0 s  
 M : NO s  
 S SAMPLE VOLUME : 11.0 µl  
 DILUENT NAME : H2O  
 VOLUME : 19 µl  
 CLEANER CYCLE : ON  
 TIME CONTROL : NO s  
 A READINGS  
 FIRST : 5.0 s  
 NUMBER: : 30  
 INTERVAL : 10 s  
 M : NO s  
 M : NO s

**CALCULATION**

SAMPLE CHECK LIMIT : NO A  
 REACTION DIRECTION: : INCREASE  
 CHECK : ON  
 CONVERSION FACTOR : 1.00000  
 OFFSET : 0.00000  
 TEST RANGE LOW : 0 µg/dl  
 HIGH : 500 µg/dl  
 RANGE TYPE : NORM RANGE  
 NORM RANGE LOW : 70 µg/dl  
 HIGH : 115 µg/dl

NUMBER OF STEPS : 1  
 CALCULATION STEP A : ENDPOINT  
 FIRST : M1  
 LAST : 30

**CALIBRATION**

CALIB. INTERVAL : ON REQUEST  
 NUMBER OF STDS. : 1  
 POSITION OF STD1 : USER DEF  
 STD1 : USER DEF

REPLICATE : TRIPLICATE  
 DEVIATION : 5%

REAGENT RANGE LOW : 0.0050 A  
 HIGH : 0.7500 A  
 BLANK RANGE LOW : NO A  
 HIGH : NO A

**CONTROL**

CONTROL INTERVAL : ON REQUEST  
 MONTHLY REPORT : USER DEF  
 CS1 POSITION : USER DEF  
 CS2 POSITION : USER DEF  
 CS3 POSITION : USER DEF