



Hitachi 717 instructions

rev 408.0.2 - 2010-08-01

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

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Hitachi 717 instructions

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Warning!

These programs should be used only as guideline. To check the reagent correct setting on the instrument, use only good quality control sera and work accordingly to with good laboratory practice. Instrumental factor must be checked. Chema Diagnostica will not be responsible for instrumental bad programming.

Analyzer: Hitachi 717Application: **ACID PHOSPHATASE (TOTAL)** - Codes AC 0120 TC

Preparation: POWDER SINGLE REAGENT. FOLLOW PREPARATION PROGRAM INDICATED IN INSERT SHEET. INSTALL AS R1

Storage: REFRIGERATE AT 2-8°C

PROGRAM

TEST:	ACP
ASSAY CODE:	RATE-A - 30 - 50
SAMPLE VOL:	20
R1 VOLUME:	230
R2 VOLUME:	0
WAVELENGTHS:	700 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 5.1
PANIC VALUE:	0 - 75

X - X* user def

Analyzer: Hitachi 717Application: **ACID PHOSPHATASE (NON PROSTATIC)** - Codes AC 0120 TC

Preparation: POWDER SINGLE REAGENT. FOLLOW PREPARATION PROGRAM INDICATED IN INSERT SHEET. INSTALL AS R1

Storage: REFRIGERATE AT 2-8°C

PROGRAM

TEST:	ACP
ASSAY CODE:	RATE-A - 30 - 50
SAMPLE VOL:	20
R1 VOLUME:	230
R2 VOLUME:	0
WAVELENGTHS:	700 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 4.1
PANIC VALUE:	0 - 75

X - X* user def

Analyzer: Hitachi 717

Application: **ALBUMIN** - Codes BC 0100 / 0500 / 1000 / 1500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	ALB
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 600
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	3.8 - 5.1
PANIC VALUE:	1.0 - 7.0

X - X* user def

Analyzer: Hitachi 717

Application: **ALKALINE PHOSPHATASE DGKC FL** - Codes AL F080 / F245 / F400 / F600 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	ALP
ASSAY CODE:	RATE-A - 35 - 48
SAMPLE VOL:	4
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	64 - 306
PANIC VALUE:	5 - 2000

X - X* user def

Analyzer: Hitachi 717

Application: **ALKALINE PHOSPHATASE IFCC FL** - Codes AF F080 / F245 / F400 / F600 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	ALP
ASSAY CODE:	RATE-A - 35 - 48
SAMPLE VOL:	4
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	28 - 100
PANIC VALUE:	5 - 2000

X - X* user def

Analyzer: Hitachi 717

Application: **AMYLASE FL** - Codes AM F060 / F120 / F245 CH
Preparation: R1 -LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	AMY
ASSAY CODE:	RATE-A - 06 - 20
SAMPLE VOL:	10
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 96 (*)
PANIC VALUE:	2 - 1800 (*)

X - X* user def

NOTE: CNP-G3 method is not always available among calibrator values. If it fails, use PNP-G7 value or EPS, and program the parameters (*) as indicated below:

EXPECTED VALUE:	10 - 220
PANIC VALUE:	2 - 5000

Analyzer: Hitachi 717

Application: **AMYLASE EPS FL** - Codes EA F080 / F245 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	AMY
ASSAY CODE:	RATE-A - 32 - 48
SAMPLE VOL:	7
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	10 - 220
PANIC VALUE:	2 - 5000

X - X* user def

Analyzer: Hitachi 717

Application: **PANCREATIC ISOAMYLASE FL** - Code PA F080 / F245 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	AMYP
ASSAY CODE:	RATE-A - 32 - 48
SAMPLE VOL:	7
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	17 - 115
PANIC VALUE:	2 - 5000

X - X* user def

Analyzer: Hitachi 717

Application: **BICARBONATE FL** - Codes BR F060 / F245 / F400 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	C02
ASSAY CODE:	1POINT - 20 - 0
SAMPLE VOL:	3
R1 VOLUME:	300
R2 VOLUME:	0
WAVELENGTHS:	700 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	22 - 29
PANIC VALUE:	2 - 50

X - X* user def

Analyzer: Hitachi 717Application: **BILIRUBIN TOTAL FL** - Code DT F125 / F500 CHPreparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	BILT
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	15
R1 VOLUME:	240
R2 VOLUME:	60
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0.1 - 1.2
PANIC VALUE:	0.0 - 20.0

X - X* user def

Analyzer: Hitachi 717Application: **BILIRUBIN DIRECT FL** - Code DD F125 / F500 CHPreparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	BILD
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	15
R1 VOLUME:	240
R2 VOLUME:	60
WAVELENGTHS:	700 - 546
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0.0 - 0.2
PANIC VALUE:	0.0 - 20.0

X - X* user def

Analyzer: Hitachi 717

Application: **CALCIUM** - Code CA 0305 / 0505 CH
Preparation: R1 -INSTALL LIQUID READY TO USE REAGENT B
R2 -INSTALL LIQUID READY TO USE REAGENT A
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CA
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	125
R2 VOLUME:	125
WAVELENGTHS:	700 - 570
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	9.2 - 11.0
PANIC VALUE:	3.0 - 20.0

X - X* user def

Analyzer: Hitachi 717

Application: **CALCIUM ASX** - Code CA 0100 / 0500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CA
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 660
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	9.2 - 11.0
PANIC VALUE:	3.0 - 20.0

X - X* user def

Analyzer: Hitachi 717

Application: **CHOLESTEROL FL** - Code CT F100 / F400 / 100F / 150F CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CHOL
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	140 - 200
PANIC VALUE:	70 - 750

X - X* user def

Analyzer: Hitachi 717

Application: **HDL DIRECT FL-** Code HD F080 / F245 / F400 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
CALIBRATOR - RECONSTITUTE AS INDICATED IN INSERT SHEET
Storage: REFRIGERATE AT 2-8°C
Stability: 60 DAYS OPEN BOTTLES - CALIBRATOR: AS INDICATED IN INSERT SHEET

PROGRAM

TEST:	HDL
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	3
R1 VOLUME:	252
R2 VOLUME:	84
WAVELENGTHS:	700 - 600
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	35 - 55
PANIC VALUE:	10 - 180

X - X* user def

Analyzer: Hitachi 717

Application: **LDL DIRECT FL**- Code DL F080 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
CALIBRATOR - RECONSTITUTE AS INDICATED IN INSERT SHEET
Storage: REFRIGERATE AT 2-8°C
Stability: 60 DAYS OPEN BOTTLES - CALIBRATOR: AS INDICATED IN INSERT SHEET

PROGRAM

TEST:	LDL
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	3
R1 VOLUME:	252
R2 VOLUME:	84
WAVELENGTHS:	700 - 600
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	76 - 218
PANIC VALUE:	10 - 400

X - X* user def

Analyzer: Hitachi 717Application: **CHOLINESTERASE FL (DGKC)** - Codes CH F096 / F245 CH

Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A

R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CHE
ASSAY CODE:	RATE-A - 28 - 32
SAMPLE VOL:	6
R1 VOLUME:	200
R2 VOLUME:	40
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	12000 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	5600 - 11200
PANIC VALUE:	1000 - 25000

X - X* user def

Analyzer: Hitachi 717

Application: **CK-NAC FL** - Codes CK F060 / F120 / F245 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CK
ASSAY CODE:	RATE-A - 36 - 48
SAMPLE VOL:	8
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 190
PANIC VALUE:	2 - 2500

X - X* user def

Analyzer: Hitachi 717

Application: **CK-MB FL** - Code MB F060 / F120 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CKMB
ASSAY CODE:	RATE-A - 36 - 48
SAMPLE VOL:	10
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 24
PANIC VALUE:	2 - 2000

X - X* user def

Analyzer: Hitachi 717

Application: **COPPER** - Code CU 0100 CH
Preparation: R1 - MIX REAGENT A + REAGENT B AS INDICATED IN INSERT SHEET
Storage: DO NOT REFRIGERATE!
Stability: 2 WEEKS

PROGRAM

TEST:	CU
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	12
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 570
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	80 - 140
PANIC VALUE:	3 - 500

X - X* user def

Analyzer: Hitachi 717

Application: **CREATININE** - Code CR 0500 / 1000 / 1500 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT B
R2 - INSTALL LIQUID READY TO USE REAGENT A
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	CREA
ASSAY CODE:	2POINT - 28 - 32
SAMPLE VOL:	10
R1 VOLUME:	125
R2 VOLUME:	125
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	0.6 - 1.2
PANIC VALUE:	0.2 - 12.0

X - X* user def

Analyzer: Hitachi 717

Application: **GAMMA-GT FL** - Codes GT F080 / F245 / F400 / F600 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	GGT
ASSAY CODE:	RATE-A - 35 - 48
SAMPLE VOL:	20
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	660 - 415
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	11 - 50
PANIC VALUE:	1 - 1000

X - X* user def

Analyzer: Hitachi 717

Application: **GLUCOSE FL** - Code GL F400 / 100F / 150F CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	GLUC
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	70 - 110
PANIC VALUE:	20 - 450

X - X* user def

Analyzer: Hitachi 717

Application: **GLUCOSE UV FL** - Code GL F601 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	GLUC
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	60 - 110
PANIC VALUE:	20 - 800

X - X* user def

Analyzer: Hitachi 717Application: **GOT/AST FL** - Codes GO F080 / F245 / F400 / F600 CH

Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A

R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	GOT
ASSAY CODE:	RATE-A - 36 - 48
SAMPLE VOL:	20
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	5 - 40
PANIC VALUE:	1 - 700

X - X* use def

Analyzer: Hitachi 717Application: **GPT/ALT FL** - Codes GP F080 / F245 / F400 / F600 CH

Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A

R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	GPT
ASSAY CODE:	RATE-A - 36 - 48
SAMPLE VOL:	20
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	5 - 40
PANIC VALUE:	1 - 700

X - X* user def

Analyzer: Hitachi 717

Application: **IRON FZ** - Codes FE F245 / F400 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL REAGENT B (READ PREPARATION IN MANUAL INSERT SHEET)
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	FE
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	20
R1 VOLUME:	240
R2 VOLUME:	60
WAVELENGTHS:	700 - 570
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	59 - 158
PANIC VALUE:	10 - 700

X - X* user def

Analyzer: Hitachi 717

Application: **LDH FL** - Codes LD F060 / F120 / F245 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	LIP
ASSAY CODE:	RATE-A - 35 - 48
SAMPLE VOL:	3
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	700 - 570
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	0 - 60
PANIC VALUE:	1 - 300

X - X* user def

Analyzer: Hitachi 717

Application: **LIPASE FL** - Codes LP F060 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	LIP
ASSAY CODE:	RATE-A - 35 - 48
SAMPLE VOL:	4
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	10000 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	225 - 450
PANIC VALUE:	20 - 4000

X - X* user def

Analyzer: Hitachi 717

Application: **MAGNESIUM** - Code MG 0200 / 0500 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT B
R2 - INSTALL LIQUID READY TO USE REAGENT A
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	MG
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	125
R2 VOLUME:	125
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	1.3 - 2.1
PANIC VALUE:	0.5 - 8.5

X - X* user def

Analyzer: Hitachi 717

Application: **MAGNESIUM XL** - Code MX 0300 / 0500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	MG
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	300
R2 VOLUME:	0
WAVELENGTHS:	700 - 546
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	1.3 - 2.1
PANIC VALUE:	0.5 - 6.0

X - X* user def

Analyzer: Hitachi 717

Application: **PHOSPHORUS**- Code PH 0100 / 0500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	PHOS
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	2.3 - 4.7
PANIC VALUE:	0.5 - 15.0

X - X* user def

Analyzer: Hitachi 717

Application: **PROTEINS HS** - Code HS 0100 / 0500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	HS
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	10
R1 VOLUME:	300
R2 VOLUME:	0
WAVELENGTHS:	700 - 600
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	28 - 141
PANIC VALUE:	3 - 500

X - X* user def

Analyzer: Hitachi 717

Application: **TOTAL PROTEINS** - Codes TP 0500 / 1000 / 1500 CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: ROOM TEMPERATURE OR REFRIGERATE (2-30°C)
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	TP
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 546
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	6.0 - 7.8
PANIC VALUE:	3.0 - 12.0

X - X* user def

Analyzer: Hitachi 717

Application: **TRIGLYCERIDES FL** - Codes TR F100 / F400 / 100F / 150F CH
Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	TRIG
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	3
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 505
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	10 - 190
PANIC VALUE:	5 - 1000

X - X* user def

Analyzer: Hitachi 717Application: **UREA UV FL** - Codes AZ F080 / F245 / F400 / F600 CH

Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A

R2 - INSTALL LIQUID READY TO USE REAGENT B

Storage: REFRIGERATE AT 2-8°C

Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	UREA
ASSAY CODE:	2POINT - 32 - 36
SAMPLE VOL:	3
R1 VOLUME:	200
R2 VOLUME:	50
WAVELENGTHS:	376 - 340
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - DEC
PROZONE LIMIT:	0
EXPECTED VALUE:	10 - 50
PANIC VALUE:	2 - 250

X - X* user def

Analyzer: Hitachi 717

Application: **URIC ACID T FL** - Code AU F402 CH
Preparation: R1 - MIX REAGENT A + REAGENT B AS INDICATED IN INSERT SHEET
Storage: REFRIGERATE AT 2-8°C
Stability: 90 DAYS

PROGRAM

TEST:	UA
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	5
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 546
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	3.5 - 7.7
PANIC VALUE:	1.0 - 20.0

X - X* user def

Analyzer: Hitachi 717

Application: **URIC ACID AOX FL** - Code AX F100 / F250 / F600 CH
Preparation: R1 - INSTALL LIQUID READY TO USE REAGENT A
R2 - INSTALL LIQUID READY TO USE REAGENT B
Storage: REFRIGERATE AT 2-8°C
Stability: AS INDICATED IN THE LABEL

PROGRAM

TEST:	UA
ASSAY CODE:	2POINT - 20 - 50
SAMPLE VOL:	12
R1 VOLUME:	240
R2 VOLUME:	60
WAVELENGTHS:	700 - 546
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	3.5 - 7.2
PANIC VALUE:	0.0 - 35.0

X - X* user def

Analyzer: Hitachi 717Application: **ZINC** - Code ZN 0125 CH

Preparation: R1 - MIX REAGENT A + REAGENT B AS INDICATED IN INSERT SHEET

Storage: REFRIGERATE AT 2-8°C

Stability: 2 WEEKS

PROGRAM

TEST:	ZN
ASSAY CODE:	1POINT - 50 - 0
SAMPLE VOL:	12
R1 VOLUME:	250
R2 VOLUME:	0
WAVELENGTHS:	700 - 570
CALIB METHOD:	1 - 0
STD 1 CONC. POS.:	X - X*
STD 2 CONC. POS.:	0 - 0
STD 3 CONC. POS.:	0 - 0
STD 4 CONC. POS.:	0 - 0
STD 5 CONC. POS.:	0 - 0
STD 6 CONC. POS.:	0 - 0
SD LIMIT:	0.250
DUPLICATE LIMIT:	100
SENSITIVITY LIMIT:	0
ABS LIMIT:	0 - INC
PROZONE LIMIT:	0
EXPECTED VALUE:	70 - 115
PANIC VALUE:	3 - 500

X - X* user def