

# Clinical chemistry

## Konelab 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: Konelab**

Application: **ACID PHOSPHATASE (TOTAL)** - Code AC 0120 TC  
 Preparation: POWDER SINGLE REAGENT. FOLLOW PREPARATION PROGRAM INDICATED IN INSERT SHEET. INSTALL AS R1  
 Storage: REFRIGERATE AT 2-8°C

**Test definition ACP**

test type	Photometric	test in use	YES		
Full name	Acid Phosph.	Test limit	Low	High	Units
Online name			0	75	U/L
Result unit	U/L	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	50	U/L
Acceptance	AUTOMATIC	Secondary dil.	0	4	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	NONE	Factor	730	bias	0
		Bias corr. in use	NO		

test flow					
Additional blank	NONE				
Antigen excess	NO				
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type	
ACP	22	300	405	LINEAR	
Volume (µl)			λ2 (nm)	Nonlinearity Conc. (IU/L)	
200			NONE	2	
Disp. with.	Disp. with			%	
EXTRA	EXTRA			15	
Volume (µl)	Volume (µl)			Time (sec)	
10	10			300	
	Diluent			Points&Inter.	
	WATER			11/18 (sec)	

**Analyzer: Konelab**

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

**Test definition ALB**

test type	Photometric	test in use	YES		
Full name	Albumin	Test limit	Low	High	Units
Online name			0	7	g/dl
Result unit	g/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	5	g/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	3
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
GLUC	BLANK	2	120	620
Volume (µl)				λ2 (nm)
215				700
Disp. with.	Disp. with	λ2 weight		
WATER	WATER	1,0		
Volume (µl)	Volume (µl)	Res. Net. Abs.		
15	15	0		
	Diluent	Meas. type		
	WATER	Fixed timing		

**Analyzer: Konelab**

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

**Test definition ALP**

test type	Photometric	test in use	YES		
Full name	ALK. Phosph.	Test limit	Low 0	High 2000	Units U/L
Online name		Initial absorb.	0,0	2,0	A
Result unit	U/L	Dilution limit	*	1500	U/L
N. of decimals	0	Secondary dil.	0	9	
Acceptance	AUTOMATIC	Correction factor	1.00		
Dilution 1+	0	Bias correction	0.00		
Sample type	serum plasma				

**calibration parameters**

calibration type	NONE	Factor	2757	bias	0
		Bias corr. in use	NO		

test flow

Additional blank	NONE				
Antigen excess	NO				
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
ALP	180	4	120	405	LINEARCUT
Volume (µl)				λ2 (nm)	Nonlinearity
175				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			10
Volume (µl)		Volume (µl)			Time (sec)
15		10			120
		Diluent			Points&Inter.
		WATER			7/18 sec

**Analyzer: Konelab**

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

**Test definition AMY**

test type	Photometric	test in use	YES		
Full name	Amylase	Test limit	Low 0	High 2000	Units U/L
Online name		Initial absorb.	0,0	2,0	A
Result unit	U/L	Dilution limit	*	1500	U/L
N. of decimals	0	Secondary dil.	0	9	
Acceptance	AUTOMATIC	Correction factor	1.00		
Dilution 1+	0	Bias correction	0.00		
Sample type	serum plasma				

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
AMY	180	5	120	405	LINEARCUT
Volume (µl)				λ2 (nm)	Nonlinearity
175				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
15		10			120
		Diluent			Points&Inter.
		WATER			7/18 sec

**Analyzer: Konelab**

Application: **AMYLASE EPS FL** - Codes EA F245 CH  
 Preparation: **WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET**  
 Storage: **REFRIGERATE AT 2-8°C**  
 Stability: **30 DAYS AT 2-8°C**

**Test definition AMY**

test type Photometric  
 Full name Amylase  
 Online name  
 Result unit   
 N. of decimals   
 Acceptance   
 Dilution 1+   
 Sample type serum  
 plasma

test in use YES

	Low	High	Units
Test limit	<input type="text" value="0"/>	<input type="text" value="5000"/>	<input type="text" value="U/L"/>
Initial absorb.	<input type="text" value="0,0"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Dilution limit	<input type="text" value="*"/>	<input type="text" value="3000"/>	<input type="text" value="U/L"/>
Secondary dil.	<input type="text" value="0"/>	<input type="text" value="9"/>	
Correction factor	<input type="text" value="1.00"/>		
Bias correction	<input type="text" value="0.00"/>		

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
<input type="text" value="AMY"/>	<input type="text" value="180"/>	<input type="text" value="4"/>	<input type="text" value="180"/>	<input type="text" value="405"/>	<input type="text" value="LINEARCUT"/>
Volume (µl)				λ2 (nm)	Nonlinearity
<input type="text" value="175"/>				<input type="text" value="NONE"/>	
Disp. with.		Disp. with			resp.(mA/min)
<input type="text" value="EXTRA"/>		<input type="text" value="EXTRA"/>			<input type="text" value="20"/>
Volume (µl)		Volume (µl)			Time (sec)
<input type="text" value="15"/>		<input type="text" value="10"/>			<input type="text" value="120"/>
		Diluent			Points&Inter.
		<input type="text" value="WATER"/>			<input type="text" value="7/18 sec"/>

**Analyzer: Konelab**

Application: **PANCREATIC ISOAMYLASE FL - Code PA 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

**Test definition AMYP**

test type	Photometric	test in use	YES		
Full name	Pancreatic Amylase	Test limit	Low <input type="text" value="0"/>	High <input type="text" value="5000"/>	Units <input type="text" value="U/L"/>
Online name		Initial absorb.	<input type="text" value="0,0"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Result unit	<input type="text" value="U/L"/>	Dilution limit	<input type="text" value="*"/>	<input type="text" value="3000"/>	<input type="text" value="U/L"/>
N. of decimals	<input type="text" value="0"/>	Secondary dil.	<input type="text" value="0"/>	<input type="text" value="9"/>	
Acceptance	<input type="text" value="AUTOMATIC"/>	Correction factor	<input type="text" value="1.00"/>		
Dilution 1+	<input type="text" value="0"/>	Bias correction	<input type="text" value="0.00"/>		
Sample type	serum plasma				

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank	NONE		Antigen excess	NO			
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)	Curve type
<b>P-AMY-1</b>	<input type="text" value="180"/>	<input type="text" value="4"/>	<input type="text" value="180"/>	<b>P-AMY-2</b>	<input type="text" value="120"/>	<input type="text" value="405"/>	<b>LINEARCUT</b>
Volume (µl)			Volume (µl)			λ2 (nm)	Nonlinearity
<input type="text" value="160"/>			<input type="text" value="40"/>			<input type="text" value="NONE"/>	
Disp. with.	Disp. with		Disp. with		resp.(mA/min)		
<input type="text" value="EXTRA"/>	<input type="text" value="EXTRA"/>		<input type="text" value="EXTRA"/>		<input type="text" value="20"/>		
Volume (µl)	Volume (µl)		Volume (µl)		Time (sec)		
<input type="text" value="10"/>	<input type="text" value="10"/>		<input type="text" value="10"/>		<input type="text" value="180"/>		
	Diluent				Points&Inter.		
	<input type="text" value="WATER"/>				<input type="text" value="7/18 sec"/>		

**Analyzer: Konelab**

Application: **TOTAL BILIRUBIN** - Code BT 0360 CH  
 Preparation: R1 - USE LIQUID READY TO USE REAGENT A  
 R2 - MIX 30 PARTS OF REAGENT B1 WITH ONE PART OF REAGENT B2.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: R1: AS INDICATED IN THE LABEL - R2: 7 DAYS.

**Test definition T BIL**

test type	Photometric	test in use	YES		
Full name	Total Bilirubin	Test limit	Low	High	Units
Online name			0	20	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	12	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	4	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	1	Abs. error (mA)	12
Point/std	2	Rel. error %	3
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)		
T-BIL-1	10	180	BLANK	T-BIL-2	300	510	
Volume (µl)	160		Volume (µl)	40	λ2 (nm)	NONE	
Disp. with.	WATER	Disp. with.	EXTRA	Disp. with.	WATER		
Volume (µl)	10	Volume (µl)	10	Volume (µl)	10		
	Diluent	WATER				Meas. type	NORMAL

**Analyzer: Konelab**

Application: **DIRECT BILIRUBIN** - Code BD 0480 CH  
 Preparation: R1 - USE LIQUID READY TO USE REAGENT A  
 R2 - MIX 30 PARTS OF REAGENT A WITH ONE PART OF REAGENT B.  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: R1: AS INDICATED IN THE LABEL - R2: 7 DAYS.

**Test definition D BIL**

test type	Photometric	test in use	YES		
Full name	Direct Bilirubin	Low	High	Units	
Online name		Test limit	<input type="text" value="0"/>	<input type="text" value="20"/>	<input type="text" value="mg/dl"/>
Result unit	<input type="text" value="mg/dl"/>	Initial absorb.	<input type="text" value="0,0"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
N. of decimals	<input type="text" value="1"/>	Dilution limit	<input type="text" value="*"/>	<input type="text" value="12"/>	<input type="text" value="mg/dl"/>
Acceptance	<input type="text" value="AUTOMATIC"/>	Secondary dil.	<input type="text" value="0"/>	<input type="text" value="4"/>	
Dilution 1+	<input type="text" value="0"/>	Correction factor	<input type="text" value="1.00"/>		
Sample type	serum plasma	Bias correction	<input type="text" value="0.00"/>		

**calibration parameters**

calibration type	<input type="text" value="LINEAR"/>	Bias corr. in use	<input type="text" value="NO"/>
Repeat time (d)	<input type="text" value="1"/>	Abs. error (mA)	<input type="text" value="12"/>
Point/std	<input type="text" value="2"/>	Rel. error %	<input type="text" value="3"/>
Acceptance	<input type="text" value="MANUAL"/>	Response limit Min.	<input type="text" value="*"/>
Type of standard	<input type="text" value="SEPARATE"/>	Max	<input type="text" value="*"/>
Std. ID	<input type="text" value="WATER&lt;br/&gt;CAL 1"/>		

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)
<input type="text" value="D-BIL-1"/>	<input type="text" value="10"/>	<input type="text" value="120"/>	<input type="text" value="BLANK"/>	<input type="text" value="60"/>	<input type="text" value="540"/>
	<input type="text" value="160"/>			<input type="text" value="40"/>	<input type="text" value="NONE"/>
Disp. with.		Disp. with	Disp. with		
<input type="text" value="WATER"/>		<input type="text" value="EXTRA"/>	<input type="text" value="WATER"/>		
Volume (µl)		Volume (µl)	Volume (µl)		
<input type="text" value="10"/>		<input type="text" value="10"/>	<input type="text" value="10"/>		
	Diluent				Meas. type
	<input type="text" value="WATER"/>				<input type="text" value="NORMAL"/>

**Analyzer: Konelab**

Application: **CALCIUM** - Code CA 0505 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 14 DAYS AT 2-8°C

**Test definition CA**

test type	Photometric	test in use	YES		
Full name	Calcium	Test limit	Low	High	Units
Online name			0	20	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	2	Dilution limit	*	15	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	0
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank	MEASUREMENT				
Antigen excess	NO				
Reagent	Incubation Time (sec)	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
CA	120		3	120	575
Volume (µl)					λ2 (nm)
200					700
Disp. with.			Disp. with.		
WATER			WATER		
Volume (µl)			Volume (µl)		
15			15		
				Diluent	Res. Net. Abs.
				WATER	0
					Meas. type
					NORMAL

**Analyzer: Konelab**

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

**Test definition CA**

test type	Photometric	test in use	YES		
Full name	Calcium	Test limit	Low	High	Units
Online name			0	20	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	2	Dilution limit	*	15	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	0
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank	MEASUREMENT				
Antigen excess	NO				
Reagent	Incubation Time (sec)	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
CA	120		2	120	660
Volume (µl)					λ2 (nm)
200					700
Disp. with.			Disp. with.		
WATER			WATER		
Volume (µl)			Volume (µl)		
15			15		
				Diluent	Meas. type
				WATER	NORMAL

**Analyzer: Konelab**

Application: **CHLORIDE** - Code CL 0500 CH  
 Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (15-30°C)  
 Stability: AS INDICATED IN THE LABEL

**Test definition CHLOR**

test type		Photometric	test in use	YES		
Full name		Chloride	Test limit	Low	High	Units
Online name				0	200	mEq/l
Result unit		mEq/l	Initial absorb.	0,0	2,0	A
N. of decimals		0	Dilution limit	*	150	mEq/l
Acceptance		AUTOMATIC	Secondary dil.	0	2	
Dilution 1+		0	Correction factor	1.00		
Sample type		serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
CHLOR		2	600	460
Volume (µl)				λ2 (nm)
220				700
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
10		10		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

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

**Test definition CHOL**

test type	Photometric	test in use	YES		
Full name	Cholesterol	Test limit	Low	High	Units
Online name			0	800	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	400	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
CHOL	2	300	510	
BLANK				
Volume (µl)			λ2 (nm)	
200			620	
Disp. with.	Disp. with		λ2 weight	
WATER	WATER		1,0	
Volume (µl)	Volume (µl)		Res. Net. Abs.	
20	20		0	
	Diluent		Meas. type	
	WATER		NORMAL	

**Analyzer: Konelab**

Application: **HDL DIRECT FL- Code HD F245 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**

**Test definition HDL-C**

test type	Photometric	test in use	YES		
Full name	HDL direct	Test limit	Low	High	Units
Online name			0	180	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	150	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	12
Point/std	2	Rel. error %	3
Acceptance	MANUAL	Response limit Min.	*
Type of standard	SEPARATE	Max	*
Std. ID	WATER HDL CAL		

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)
HDL-C-1	2	300	BLANK	300	600
	150			50	700
Disp. with. WATER	Disp. with. EXTRA		Disp. with. WATER		λ2 weight 1,0
Volume (µl) 20	Volume (µl) 10		Volume (µl) 20		Res. Net. Abs. 0
	Diluent WATER				Meas. type NORMAL

**Analyzer: Konelab**

Application: **CHOLINESTERASE FL (DGKC)** - Codes CH F245 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS AT 2-8°C

**Test definition CHE**

test type	Photometric	test in use	YES		
Full name	Cholinesterase	Test limit	Low	High	Units
Online name			0	25000	U/L
Result unit	U/L	Initial absorb.	0,8	2,0	A
N. of decimals	0	Dilution limit	*	20000	U/L
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.31		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	NONE	Factor	99999	bias	0
		Bias corr. in use	NO		

test flow

Additional blank	NONE				
Antigen excess	NO				
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
CHE	180	4	90	405	LINEARCUT
Volume (µl)				λ2 (nm)	Nonlinearity
175				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
15		10			90
		Diluent			Points&Inter.
		WATER			7/18 sec

**Analyzer: Konelab**

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

**Test definition CK**

test type	Photometric	test in use	YES		
Full name	Creatine kinase	Test limit	Low <input type="text" value="0"/>	High <input type="text" value="1600"/>	Units <input type="text" value="U/L"/>
Online name		Initial absorb.	<input type="text" value="0,0"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Result unit	<input type="text" value="U/L"/>	Dilution limit	<input type="text" value="*"/>	<input type="text" value="1200"/>	<input type="text" value="U/L"/>
N. of decimals	<input type="text" value="0"/>	Secondary dil.	<input type="text" value="0"/>	<input type="text" value="5"/>	
Acceptance	<input type="text" value="AUTOMATIC"/>	Correction factor	<input type="text" value="1.00"/>		
Dilution 1+	<input type="text" value="0"/>	Bias correction	<input type="text" value="0.00"/>		
Sample type	serum plasma				

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
<input type="text" value="CK"/>	<input type="text" value="180"/>	<input type="text" value="8"/>	<input type="text" value="120"/>	<input type="text" value="340"/>	<input type="text" value="LINEARCUT"/>
Volume (µl)				λ2 (nm)	Nonlinearity
<input type="text" value="180"/>				<input type="text" value="NONE"/>	
Disp. with.		Disp. with			resp.(mA/min)
<input type="text" value="EXTRA"/>		<input type="text" value="EXTRA"/>			<input type="text" value="20"/>
Volume (µl)		Volume (µl)			Time (sec)
<input type="text" value="10"/>		<input type="text" value="10"/>			<input type="text" value="120"/>
		Diluent			Points&Inter.
		<input type="text" value="WATER"/>			<input type="text" value="7/18 sec"/>

**Analyzer: Konelab**

Application: **CK-MB FL - Code MB F120 CH**  
 Preparation: **WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET**  
 Storage: **REFRIGERATE AT 2-8°C**  
 Stability: **10 DAYS AT 2-8°C**

**Test definition CK-MB**

test type	Photometric	test in use	YES		
Full name	CK-MB	Test limit	Low 0	High 1600	Units U/L
Result unit	U/L	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	1200	U/L
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
CK	120	8	300	340	LINEARCUT
Volume (µl)				λ2 (nm)	Nonlinearity
180				NONE	10
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
10		10			240
		Diluent			Points&Inter.
		WATER			9/27 sec

**Analyzer: Konelab**

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

**Test definition CU**

test type	Photometric	test in use	YES		
Full name	Copper	Test limit	Low	High	Units
Online name			0	500	µg/dl
Result unit	µg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	300	µg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CHEM CAL	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	<b>BLANK</b>	Volume (µl)	Incubation Time (sec)	λ1 (nm)
CU		10	300	575
Volume (µl)				λ2 (nm)
150				700
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
10		10		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

Application: **CREATININE** - Code CR 0500 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 10 DAYS AT 2-8°C

**Test definition CREA**

test type	Photometric	test in use	YES		
Full name	Creatinine	Test limit	Low	High	Units
Online name			0	12	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	10	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	9	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	5
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank	NONE				
Antigen excess	NO				
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
CREA	180	10	60	510	NONLINEAR
Volume (µl)				λ2 (nm)	Nonlinearity
200				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
10		10			60
		Diluent			Points&Inter.
		WATER			12/4.5 sec

**Analyzer: Konelab**

Application: **GAMMA-GT FL** - Codes GT F245 / F400 / F600 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS AT 2-8°C

**Test definition GGT**

test type	Photometric	test in use	YES		
Full name	Gamma GT	Test limit	Low 0	High 1000	Units U/L
Online name		Initial absorb.	0,0	2,0	A
Result unit	U/L	Dilution limit	*	600	U/L
N. of decimals	0	Secondary dil.	0	9	
Acceptance	AUTOMATIC	Correction factor	1.00		
Dilution 1+	0	Bias correction	0.00		
Sample type	serum plasma				

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
GGT	180	22	120	405	LINEARCUT
Volume (µl)				λ2 (nm)	Nonlinearity
190				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
20		10			120
		Diluent			Points&Inter.
		WATER			7/18 sec

**Analyzer: Konelab**

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

**Test definition GLUC**

test type	Photometric	test in use	YES		
Full name	GLUC GOD-POD	Test limit	Low	High	Units
Online name			0	500	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	350	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	0
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
GLUC	2	600	510	
BLANK				
Volume (µl)				λ2 (nm)
200				620
Disp. with.	Disp. with	λ2 weight		
WATER	WATER	1,0		
Volume (µl)	Volume (µl)	Res. Net. Abs.		
20	20	0		
	Diluent	Meas. type		
	WATER	NORMAL		

**Analyzer: Konelab**

Application: **GLUCOSE UV FL - Code GL F601 CH**  
 Preparation: **WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET**  
 Storage: **REFRIGERATE AT 2-8°C**  
 Stability: **30 DAYS AT 2-8°C**

**Test definition GLU-HK**

test type Photometric  
 Full name GLUC HK  
 Online name  
 Result unit   
 N. of decimals   
 Acceptance   
 Dilution 1+   
 Sample type serum  
 plasma

test in use YES

	Low	High	Units
Test limit	<input type="text" value="0"/>	<input type="text" value="1000"/>	<input type="text" value="mg/dl"/>
Initial absorb.	<input type="text" value="0,0"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Dilution limit	<input type="text" value="*"/>	<input type="text" value="750"/>	<input type="text" value="mg/dl"/>
Secondary dil.	<input type="text" value="0"/>	<input type="text" value="2"/>	
Correction factor	<input type="text" value="1.00"/>		
Bias correction	<input type="text" value="0.00"/>		

**calibration parameters**

calibration type	<input type="text" value="LINEAR"/>	Bias corr. in use	<input type="text" value="NO"/>
Repeat time (d)	<input type="text" value="0"/>	Abs. error (mA)	<input type="text" value="10"/>
Point/std	<input type="text" value="2"/>	Rel. error %	<input type="text" value="5"/>
Acceptance	<input type="text" value="MANUAL"/>	Response limit	
Type of standard	<input type="text" value="SEPARATE"/>	Min.	<input type="text" value="*"/>
Std. ID	<input type="text" value="WATER CAL 1"/>	Max	<input type="text" value="*"/>

test flow  
 Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)
<b>GLU-HK</b>	<b>2</b>	<b>300</b>	<b>340</b>
<b>BLANK</b>			
Volume (µl)	<input type="text" value="200"/>		λ2 (nm)
Disp. with.	<input type="text" value="WATER"/>		λ2 weight
Volume (µl)	<input type="text" value="20"/>		Res. Net. Abs.
Diluent	<input type="text" value="WATER"/>		Meas. type
			<b>NORMAL</b>

**Analyzer: Konelab**

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

**Test definition GOT**

test type	Photometric	test in use	YES		
Full name	GOT - AST	Test limit	Low <input type="text" value="0"/>	High <input type="text" value="440"/>	Units <input type="text" value="U/L"/>
Online name		Initial absorb.	<input type="text" value="0,8"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Result unit	<input type="text" value="U/L"/>	Dilution limit	<input type="text" value="*"/>	<input type="text" value="300"/>	<input type="text" value="U/L"/>
N. of decimals	<input type="text" value="0"/>	Secondary dil.	<input type="text" value="0"/>	<input type="text" value="5"/>	
Acceptance	<input type="text" value="AUTOMATIC"/>	Correction factor	<input type="text" value="1.00"/>		
Dilution 1+	<input type="text" value="0"/>	Bias correction	<input type="text" value="0.00"/>		
Sample type	serum plasma				

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
<input type="text" value="GOT"/>	<input type="text" value="180"/>	<input type="text" value="22"/>	<input type="text" value="120"/>	<input type="text" value="340"/>	<input type="text" value="LINEARCUT"/>
Volume (µl)				λ2 (nm)	Nonlinearity
<input type="text" value="190"/>				<input type="text" value="NONE"/>	
Disp. with.		Disp. with			resp.(mA/min)
<input type="text" value="EXTRA"/>		<input type="text" value="EXTRA"/>			<input type="text" value="20"/>
Volume (µl)		Volume (µl)			Time (sec)
<input type="text" value="20"/>		<input type="text" value="10"/>			<input type="text" value="180"/>
		Diluent			Points&Inter.
		<input type="text" value="WATER"/>			<input type="text" value="9/27 sec"/>

**Analyzer: Konelab**

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

**Test definition GPT**

test type	Photometric	test in use	YES		
Full name	GPT - ALT	Test limit	Low <input type="text" value="0"/>	High <input type="text" value="440"/>	Units <input type="text" value="U/L"/>
Online name		Initial absorb.	<input type="text" value="0,8"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Result unit	<input type="text" value="U/L"/>	Dilution limit	<input type="text" value="*"/>	<input type="text" value="300"/>	<input type="text" value="U/L"/>
N. of decimals	<input type="text" value="0"/>	Secondary dil.	<input type="text" value="0"/>	<input type="text" value="5"/>	
Acceptance	<input type="text" value="AUTOMATIC"/>	Correction factor	<input type="text" value="1.00"/>		
Dilution 1+	<input type="text" value="0"/>	Bias correction	<input type="text" value="0.00"/>		
Sample type	serum plasma				

**calibration parameters**

calibration type	<input type="text" value="NONE"/>	Factor	<input type="text" value="-1746"/>	bias	<input type="text" value="0"/>
		Bias corr. in use	<input type="text" value="NO"/>		

test flow

Additional blank	NONE				
Antigen excess	NO				
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
<input type="text" value="GPT"/>	<input type="text" value="180"/>	<input type="text" value="22"/>	<input type="text" value="120"/>	<input type="text" value="340"/>	<input type="text" value="LINEARCUT"/>
Volume (µl)				λ2 (nm)	Nonlinearity
<input type="text" value="190"/>				<input type="text" value="NONE"/>	
Disp. with.		Disp. with			resp.(mA/min)
<input type="text" value="EXTRA"/>		<input type="text" value="EXTRA"/>			<input type="text" value="20"/>
Volume (µl)		Volume (µl)			Time (sec)
<input type="text" value="20"/>		<input type="text" value="10"/>			<input type="text" value="180"/>
		Diluent			Points&Inter.
		<input type="text" value="WATER"/>			<input type="text" value="9/27 sec"/>

**Analyzer: Konelab**

Application: **IRON FZ** - Codes FE F245 / F400 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

**Test definition IRON-F**

test type	Photometric	test in use	YES		
Full name	Iron FZ	Test limit	Low	High	Units
Online name			0	1000	µg/dl
Result unit	µg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	700	µg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	12
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)
IRON-F-1	50	240	BLANK	300	575
Volume (µl)	160		Volume (µl)	40	λ2 (nm)
Disp. with.	WATER	Disp. with.	EXTRA	WATER	NONE
Volume (µl)	10	Volume (µl)	10	Volume (µl)	10
	Diluent		WATER		Meas. type
					NORMAL

**Analyzer: Konelab**

Application: **IRON CRX** - Code FE 0500 CH  
 Preparation: R1 - LIQUID READY TO USE SINGLE REAGENT  
 Storage: ROOM TEMPERATURE (15-30°C) - AVOID REFRIGERATION  
 Stability: AS INDICATED IN THE LABEL

**Test definition IRON-C**

test type	Photometric	test in use	YES		
Full name	Iron CRX	Test limit	Low 0	High 500	Units µg/dl
Online name		Initial absorb.	0,0	2,0	A
Result unit	µg/dl	Dilution limit	*	400	µg/dl
N. of decimals	0	Secondary dil.	0	2	
Acceptance	AUTOMATIC	Correction factor	1.00		
Dilution 1+	0	Bias correction	0.00		
Sample type	serum plasma				

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	15
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit Min.	*
Type of standard	SEPARATE	Max	*
Std. ID	WATER CAL 1		

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
IRON-C		8	120	620
Volume (µl)				λ2 (nm)
200				700
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
10		10		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

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

**Test definition LDH**

test type Photometric  
 Full name LDH-P  
 Online name  
 Result unit   
 N. of decimals   
 Acceptance   
 Dilution 1+   
 Sample type serum  
 plasma

test in use YES

	Low	High	Units
Test limit	<input type="text" value="0"/>	<input type="text" value="4000"/>	<input type="text" value="U/L"/>
Initial absorb.	<input type="text" value="0,8"/>	<input type="text" value="2,0"/>	<input type="text" value="A"/>
Dilution limit	<input type="text" value="*"/>	<input type="text" value="3000"/>	<input type="text" value="U/L"/>
Secondary dil.	<input type="text" value="0"/>	<input type="text" value="5"/>	
Correction factor	<input type="text" value="1.00"/>		
Bias correction	<input type="text" value="0.00"/>		

**calibration parameters**

calibration type  Factor  bias   
 Bias corr. in use

test flow

Additional blank NONE  
 Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
<input type="text" value="LDH"/>	<input type="text" value="180"/>	<input type="text" value="2"/>	<input type="text" value="120"/>	<input type="text" value="340"/>	<input type="text" value="LINEARCUT"/>
Volume (µl)				λ2 (nm)	Nonlinearity
<input type="text" value="180"/>				<input type="text" value="NONE"/>	
Disp. with.	Disp. with		resp.(mA/min)		
<input type="text" value="EXTRA"/>	<input type="text" value="EXTRA"/>		<input type="text" value="20"/>		
Volume (µl)	Volume (µl)		Time (sec)		
<input type="text" value="10"/>	<input type="text" value="10"/>		<input type="text" value="120"/>		
	Diluent		Points&Inter.		
	<input type="text" value="WATER"/>		<input type="text" value="7/18 sec"/>		

**Analyzer: Konelab**

Application: **LIPASE FL- Code LP F245 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

**Test definition LIP**

test type	Photometric	test in use	YES		
Full name	Lipase	Test limit	Low	High	Units
Online name			0	250	U/L
Result unit	U/L	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	200	U/L
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	12
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER HDL CAL	Max	*

test flow

Additional blank NONE

Antigen excess NO

Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	Reagent	Incubation Time (sec)	λ1 (nm)	Curve type
LIP-1	120	2	300	LIP-2	120	575	LINEARCUT
Volume (µl)	180			Volume (µl)	36	λ2 (nm)	Nonlinearity
						NONE	
Disp. with.	EXTRA	Disp. with	EXTRA	Disp. with	EXTRA		resp.(mA/min)
							20
Volume (µl)	10	Volume (µl)	10	Volume (µl)	10		Time (sec)
							180
		Diluent	WATER				Points&Inter.
							7/18 sec

**Analyzer: Konelab**

Application: **MAGNESIUM** - Codes MG 0200 / 0500 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS AT 2-8°C

**Test definition MG**

test type	Photometric	test in use	YES		
Full name	Magnesium	Test limit	Low	High	Units
Online name			0	10	mEq/l
Result unit	mEq/l	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	7	mEq/l
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
MG	2	90	510	
			λ2 (nm)	
			700	
Disp. with.	Disp. with	λ2 weight		
WATER	WATER	1,0		
Volume (µl)	Volume (µl)	Res. Net. Abs.		
10	10	0		
	Diluent	Meas. type		
	WATER	NORMAL		

**Analyzer: Konelab**

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

**Test definition PH**

test type	Photometric	test in use	YES		
Full name	Phosphorus	Test limit	Low	High	Units
Online name			0	15	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	12	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
PH	2	300	340	
Volume (µl)				λ2 (nm)
200				380
Disp. with.	Disp. with	λ2 weight		
WATER	WATER	1,0		
Volume (µl)	Volume (µl)	Res. Net. Abs.		
10	10	0		
	Diluent	Meas. type		
	WATER	NORMAL		

**Analyzer: Konelab**

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

**Test definition HSP**

test type	Photometric	test in use	YES		
Full name	HS Proteins	Test limit	Low	High	Units
Online name			0	500	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	400	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	10	
Dilution 1+	0	Correction factor	1.00		
Sample type	urine CSF	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	Volume (µl)	Incubation Time (sec)	λ1 (nm)	
HSP	2	300	600	
	Volume (µl)		λ2 (nm)	
	232		700	
Disp. with.	Disp. with		λ2 weight	
WATER	WATER		1,0	
Volume (µl)	Volume (µl)		Res. Net. Abs.	
8	8		0	
	Diluent		Meas. type	
	WATER		NORMAL	

**Analyzer: Konelab**

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

**Test definition TP**

test type	Photometric	test in use	YES		
Full name	Total proteins	Test limit	Low	High	Units
Online name			0	12	g/dl
Result unit	g/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	9	g/dl
Acceptance	AUTOMATIC	Secondary dil.	0	5	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
TP		2	600	540
Volume (µl)				λ2 (nm)
200				700
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
10		10		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

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

**Test definition TRIG**

test type	Photometric	test in use	YES		
Full name	Triglycerides	Test limit	Low	High	Units
Online name			0	1000	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	800	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
CHOL		2	300	510
Volume (µl)				λ2 (nm)
200				620
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
20		20		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

Application: **UREA UV FL** - Codes AZ F245 / F400 / F600 CH  
 Preparation: WORKING REAGENT PREPARATION AS INDICATED IN INSERT SHEET  
 Storage: REFRIGERATE AT 2-8°C  
 Stability: 30 DAYS AT 2-8°C

**Test definition UREA**

test type	Photometric	test in use	YES		
Full name	Urea	Test limit	Low	High	Units
Online name			0	300	mg/dl
Result unit	mg/dl	Initial absorb.	0,8	2,2	A
N. of decimals	0	Dilution limit	*	250	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	9	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	7
Point/std	2	Rel. error %	10
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow

Additional blank	NONE				
Antigen excess	NO				
Reagent	Incubation time (sec)	Volume (µl)	Incubation Time (sec)	λ1 (nm)	Curve type
UREA	180	2	30	340	NONLINEAR
Volume (µl)				λ2 (nm)	Nonlinearity
200				NONE	
Disp. with.		Disp. with			resp.(mA/min)
EXTRA		EXTRA			20
Volume (µl)		Volume (µl)			Time (sec)
20		10			60
		Diluent			Points&Inter.
		WATER			12/4.5 sec

**Analyzer: Konelab**

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

**Test definition URIC**

test type	Photometric	test in use	YES		
Full name	Uric acid	Test limit	Low	High	Units
Online name			0	25	mg/dl
Result unit	mg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	1	Dilution limit	*	20	mg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CAL 1	Max	*

test flow				
Additional blank	MEASUREMENT			
Antigen excess	NO			
Reagent	BLANK	Volume (µl)	Incubation Time (sec)	λ1 (nm)
URIC		5	300	540
Volume (µl)				λ2 (nm)
200				700
Disp. with.		Disp. with		λ2 weight
WATER		WATER		1,0
Volume (µl)		Volume (µl)		Res. Net. Abs.
20		20		0
		Diluent		Meas. type
		WATER		NORMAL

**Analyzer: Konelab**

Application: **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

**Test definition ZN**

test type	Photometric	test in use	YES		
Full name	Zink	Test limit	Low	High	Units
Online name			0	1000	µg/dl
Result unit	µg/dl	Initial absorb.	0,0	2,0	A
N. of decimals	0	Dilution limit	*	800	µg/dl
Acceptance	AUTOMATIC	Secondary dil.	0	2	
Dilution 1+	0	Correction factor	1.00		
Sample type	serum plasma	Bias correction	0.00		

**calibration parameters**

calibration type	LINEAR	Bias corr. in use	NO
Repeat time (d)	0	Abs. error (mA)	10
Point/std	2	Rel. error %	5
Acceptance	MANUAL	Response limit	
Type of standard	SEPARATE	Min.	*
Std. ID	WATER CHEM CAL	Max	*

test flow

Additional blank MEASUREMENT  
 Antigen excess NO

Reagent	<b>BLANK</b>	Volume (µl)	Incubation Time (sec)	λ1 (nm)
<b>ZN</b>		<b>10</b>	<b>300</b>	<b>575</b>
Volume (µl)				λ2 (nm)
<b>200</b>				<b>700</b>
Disp. with.		Disp. with		λ2 weight
<b>WATER</b>		<b>WATER</b>		<b>1,0</b>
Volume (µl)		Volume (µl)		Res. Net. Abs.
<b>10</b>		<b>10</b>		<b>0</b>
		Diluent		Meas. type
		<b>WATER</b>		<b>NORMAL</b>