



Application
Parameters for

BT 1500 - 3500

بازنگری: ۱۴۰۱



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آدرس کارخانه: استان گلستان، پارک علم و فناوری، شماره ۲۱۷
کارخانه: ۸۱-۳۹ ۵۳ ۳۴ (۰۱۷) ۹۸+ پشتیبانی فنی: ۰۴ ۰۴ ۱۴۰ ۰۹۳۶-۳۱ ۲۴ ۸۷۱ ۰۹۱۲

Autoanalyzer

BT 1500 – 3500

Test Name

ALBUMIN

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	630	No
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	6.0
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	3.5-5.2
Female	3.5-5.2
Child	3.5-5.2
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	g/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer: BT1500 – 3500

Test Name: ALKALINE PHOSPHATASE

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	405	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	160	
Reagent 2	40	
Sample		
Sample vol	4	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	90	
Reading time (sec)	180	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	825
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	80 - 306
Female	64 - 306
Child	180 - 1200
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT1500 – 3500

Test Name

SGPT / ALT

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Decrease	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	25	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	90	
Reading time (sec)	180	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	300
Initial ABS (M ABS)	2500
Final ABS (M ABS)	500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 41
Female	0 - 31
Child	---
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT1500 – 3500

Test Name

AMYLASE

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	405	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	300	
Reagent 2	---	
Sample		
Sample vol	6	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	120	
Reading time (sec)	180	
Delay time R1 (sec)	60	
Delay time R2 (sec)	---	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	1200
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 100
Female	0 - 100
Child	0 - 100
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyser

BT 1500 – 3500

Test Name

SGOT / AST

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Decrease	
Reagents		
Num of reagents	2	
Reagent 1	240	
Reagent 2	60	
Sample		
Sample vol	30	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	90	
Reading time (sec)	180	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	800
Curve Acceptance	100
Test limit (Conc)	300
Initial ABS (M ABS)	2500
Final ABS (M ABS)	500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 37
Female	0 - 31
Child	---
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT1500 – 3500

Test Name

BILIRUBIN DIRECT

Primary Parameters

Method	Sample Blank (A)	
Kind of process	linear	
Filter 1 / Filter 2	546	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	20	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	9
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.0 - 0.3
Female	0.0 - 0.3
Child	0.0 - 0.3
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	2

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

BILIRUBIN TOTAL

Primary Parameters

Method	Sample Blank (A)	
Kind of process	linear	
Filter 1 / Filter 2	546	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	20	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	15
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.1 – 1.2
Female	0.1 – 1.2
Child	----
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	2

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Primary Parameters

Method	End point Starter	
Kind of process	linear	
Filter 1 / Filter 2	630	No
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2		
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	120	
Reading time (sec)	10	
Delay time R1 (sec)	60	
Delay time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	15
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	8.6 - 10.3
Female	8.6 - 10.3
Child	8.6 - 10.3
Re-run hyperactive	☑
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	□
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Run
Decimals	1

Standard Parameters

Factor		*
Minimum		1
Maximum		100000
Number of samples		1
Max Var.		100%
N.replicates		2
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

CHOLESTEROL

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	510	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	500
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 200
Female	0 - 200
Child	0 - 200
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

CK – MB

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	10	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	180	
Incubation time R1 (sec)	180	
Incubation time R2 (sec)	120	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	600
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 24
Female	0 - 24
Child	0 - 24
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

CPK – NAC

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	10	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	120	
Reading time (sec)	180	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	1000
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	24 - 195
Female	24 - 170
Child	24 - 330
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

CREATININE

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	510	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	20	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	60	
Reading time (sec)	90	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	20
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.7 – 1.4
Female	0.6 – 1.3
Child	----
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	2

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

CRP – WR

Primary Parameters

Method	Sample Blank (A)	
Kind of process	Cubic Spline	
Filter 1 / Filter 2	340	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	16	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	200
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.0 – 6.0
Female	0.0 – 6.0
Child	0.0 – 6.0
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*			
Minimum	1			
Maximum	100000			
Number of samples	4			
Max Var.	100%			
N.replicates				
Number	1	2	3	4
Pos.	*	*	*	*
Conc.	*	*	*	*
ABS	*	*	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

GAMMA – GT

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	405	No
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	20	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	120	
Incubation time R1 (sec)	60	
Incubation time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	220
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.0 – 50
Female	0.0 – 32
Child	0.0 – 50
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Run
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*



Autoanalyzer

BT 1500 – 3500

Test Name

GLUCOSE

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	510	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	600	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	400
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	70 - 115
Female	70 - 115
Child	----
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*



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آدرس کارخانه: استان گلستان، پارک علم و فناوری، شماره ۲۱۷
کارخانه: ۸۱-۸۰-۳۹ ۵۳ ۳۴ (۰۱۷) ۹۸+ پستی: ۹۶۰۴۰۴۰۹۱۳۶-۳۱ ۸۷۱ ۲۴ ۰۹۱۲

Autoanalyzer

BT 1500 – 3500

Test Name

HBA1C

Primary Parameters

Method	Fixed Time	
Kind of process	Cubic Spline	
Filter 1 / Filter 2	630	No
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	180	
Reagent 2	60	
Sample		
Sample vol	5	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	300	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	10	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	16
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	3 - 6
Female	3 - 6
Child	3 - 6
Re-run hyperactive	☐
Re-run pathological	☐

Secondary Parameters

Unit serum	%
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*				
Minimum	1				
Maximum	100000				
Number of samples	5				
Max Var.	100%				
N.replicates	1				
Number	1	2	3	4	5
Pos.	*	*	*	*	*
Conc.	*	*	*	*	*
ABS	*	*	*	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

HDL – CHOLESTEROL

Primary Parameters

Method	End point	
Kind of process	Linear	
Filter 1 / Filter 2	578	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	180	
Reagent 2	60	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	150
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	35 - 300
Female	35 - 300
Child	35 - 300
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

IRON

Primary Parameters

Method	Sample Blank (A)	
Kind of process	Linear	
Filter 1 / Filter 2	578	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	20	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	250
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	35 - 168
Female	37 - 165
Child	22 - 201
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	µg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

LDH

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Decrease	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	4	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	90	
Reading time (sec)	180	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	1500
Initial ABS (M ABS)	2500
Final ABS (M ABS)	500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	23 - 480
Female	23 - 480
Child	23 - 480
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*



Autoanalyzer

BT 1500 – 3500

Test Name

LDL – CHOLESTEROL

Primary Parameters

Method	End point	
Kind of process	Linear	
Filter 1 / Filter 2	578	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	180	
Reagent 2	60	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	150
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 130
Female	0 - 130
Child	0 - 130
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*



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آدرس کارخانه: استان گلستان، پارک علم و فناوری، شماره ۲۱۷
کارخانه: ۸۱-۳۹۸۰۳۹۳۴ (۰۱۷) ۹۸+ پستی: ۵۹۰۴۰۴-۱۴۰۳۶-۰۹۳۶-۳۱-۲۴ ۸۷۱ ۰۹۱۲

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	578	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	4	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	120	
Incubation time R1 (sec)	120	
Incubation time R2 (sec)	120	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	250
Initial ABS (M ABS)	500
Final ABS (M ABS)	2500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 60
Female	0 - 60
Child	0 - 60
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	U/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	□
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor		*
Minimum		1
Maximum		100000
Number of samples		1
Max Var.		100%
N.replicates		2
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

MAGNESIUM

Primary Parameters

Method	End point Starter	
Kind of process	linear	
Filter 1 / Filter 2	546	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	300	
Reading time (sec)	10	
Delay time R1 (sec)	60	
Delay time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	5
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	1.8 – 2.6
Female	1.9 – 2.5
Child	1.5 - 2.3
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Run
Decimals	2

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

MICROALBUMIN

Primary Parameters

Method	Sample Blank (A)	
Kind of process	Cubic Spline	
Filter 1 / Filter 2	340	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	40	
Sample		
Sample vol	12	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	240
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0.0 – 6.0
Female	0.0 – 6.0
Child	0.0 – 6.0
Re-run hyperactive	☐
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/L
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*				
Minimum	1				
Maximum	100000				
Number of samples	5				
Max Var.	100%				
N.replicates					
Number	1	2	3	4	5
Pos.	*	*	*	*	*
Conc.	*	*	*	*	*
ABS	*	*	*	*	*

Autoanalyzer

BT1500 – 3500

Test Name

PHOSPHORUS

Primary Parameters

Method	End point Starter	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	300	
Reading time (sec)	10	
Delay time R1 (sec)	60	
Delay time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	15
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	2.6 – 4.5
Female	2.6 – 4.5
Child	2.6 – 4.5
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Run
Decimals	1

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

TIBC

Primary Parameters

Method	Sample Blank (A)	
Kind of process	Linear	
Filter 1 / Filter 2	630	No
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	180	
Reagent 2	60	
Sample		
Sample vol	16	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	300	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	700
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	120 - 470
Female	120 - 470
Child	---
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	µg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Run
Decimals	0

Standard Parameters

Factor	*
Minimum	1
Maximum	100000
Number of samples	1
Max Var.	100%
N.replicates	2
Number	1
Pos.	*
Conc.	*
ABS	*

Autoanalyzer

BT 1500 – 3500

Test Name

TOTAL PROTEIN

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	546	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	4	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	14
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	3.5 – 5.2
Female	3.5 – 5.2
Child	3.5 – 5.2
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	g/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

TRIGLYCERIDES

Primary Parameters

Method	End point
Kind of process	linear
Filter 1 / Filter 2	510 700
Reaction direction	Increase
Reagents	
Num of reagents	1
Reagent 1	200
Reagent 2	---
Sample	
Sample vol	2
Pre dilution	1
Dilution	5
Times	
Sample starter	☐
Delay time (sec)	0
Reading time (sec)	10
Incubation time R1 (sec)	300
Incubation time R2 (sec)	0

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	700
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 - 200
Female	0 - 200
Child	0 - 200
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*
Minimum	1
Maximum	100000
Number of samples	1
Max Var.	100%
N.replicates	2
Number	1 2
Pos.	* *
Conc.	* *
ABS	* *



Autoanalyzer

BT 1500 – 3500

Test Name

UREA

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	340	405
Reaction direction	Decrease	
Reagents		
Num of reagents	2	
Reagent 1	200	
Reagent 2	50	
Sample		
Sample vol	2	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	90	
Reading time (sec)	120	
Delay time R1 (sec)	0	
Delay time R2 (sec)	60	

Check Parameters

Reagent limit (mABS)	1000
Curve Acceptance	100
Test limit (Conc)	250
Initial ABS (M ABS)	2500
Final ABS (M ABS)	500
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	17 - 43
Female	17 - 43
Child	----
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*



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آدرس کارخانه: استان گلستان، پارک علم و فناوری، شماره ۲۱۷
کارخانه: ۸۱-۸۰-۳۹-۵۳-۳۴ (۰۱۷) ۹۸+ پشتیبانی فنی: ۰۵۰ ۰۴ ۱۴۰ ۰۹۱۳۶-۰۹۱۲ ۸۷۱ ۲۴ ۳۱

Autoanalyzer

BT 1500 – 3500

Test Name

URIC ACID

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	545	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	4	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	300	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	15
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	3.6 – 8.2
Female	2.3 – 6.1
Child	0 - 200
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

URINE PROTEIN

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	578	No
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	10	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	600	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	100
Initial ABS (M ABS)	0
Final ABS (M ABS)	3000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	0 – 140 mg/24h
Female	0 – 140 mg/24h
Child	0 – 140 mg/24h
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	mg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☐
Only needle	-
Only one wash	-
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	1

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer

BT 1500 – 3500

Test Name

ZINC

Primary Parameters

Method	End point	
Kind of process	linear	
Filter 1 / Filter 2	546	700
Reaction direction	Increase	
Reagents		
Num of reagents	1	
Reagent 1	200	
Reagent 2	---	
Sample		
Sample vol	10	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☐	
Delay time (sec)	0	
Reading time (sec)	10	
Incubation time R1 (sec)	180	
Incubation time R2 (sec)	0	

Check Parameters

Reagent limit (mABS)	2000
Curve Acceptance	100
Test limit (Conc)	400
Initial ABS (M ABS)	0
Final ABS (M ABS)	2000
Max ABS delta (M ABS)	500
Check prozone	☐
Normal range (Serum)	
Male	60 - 110
Female	60 - 110
Child	60 - 110
Re-run hyperactive	☒
Re-run pathological	☐

Secondary Parameters

Unit serum	µg/dL
Num of needle washes	2 / 2
Num of cuvette wash	2
Additional wash	☒
Only needle	☒
Only one wash	☒
Instrumental Factor	1
Shift	0
Reagent Blank	Every Day
Decimals	0

Standard Parameters

Factor	*	
Minimum	1	
Maximum	100000	
Number of samples	1	
Max Var.	100%	
N.replicates	2	
Number	1	2
Pos.	*	*
Conc.	*	*
ABS	*	*