



Autoanalyzer BT1000 – 2000 – 3000

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	300
Reagent 2	---
Sample	
Sample vol	3
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	* *



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آدرس کارخانه: استان گلستان، پارک علم و فناوری، شماره ۲۱۷
کارخانه: ۸۱-۳۹ ۵۳ ۳۴ (۰۱۷) ۹۸+ پستی: ۵۶۰۴۵۴۰۳۶-۰۹ ۳۱-۲۴ ۸۷۱ ۰۹۱۲

Autoanalyzer BT1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	5	
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)	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 BT 1000 – 2000 – 3000

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	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 - 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 BT 1000 – 2000 – 3000

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)	2500
Final ABS (M ABS)	500
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	*	*

Autoanalyzer BT 1000 – 2000 – 3000

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 BT 1000 – 2000 – 3000

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	300	
Reagent 2	75	
Sample		
Sample vol	30	
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	*	*



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Autoanalyzer BT 1000 – 2000 – 3000

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	300	
Reagent 2	75	
Sample		
Sample vol	30	
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	*	*

Autoanalyzer BT1000 – 2000 – 3000

Test Name

CALCIUM

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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 BT1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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 BT1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	12	
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 BT1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	12	
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	*	*



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کارخانه: ۸۱-۳۹۳۹۳۰ (۰۱۷) ۹۸+ پشتیبانی فنی: ۰۵۴ ۰۴۰۳۶۱۳۶-۰۹۱ ۳۱-۸۷۱۲ ۰۹۱۲



Autoanalyzer: BT 1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	24	
Pre dilution	1	
Dilution	5	
Times		
Sample starter	☒	
Incubation time (sec)	20	
Reading time (sec)	120	
Delay time R1 (sec)	0	
Delay time R2 (sec)	20	

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	*	*



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Autoanalyzer BT 1000 – 2000 – 3000

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	280	
Reagent 2	70	
Sample		
Sample vol	22	
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	*	*	*	*



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کارخانه: ۸۱-۸۰ ۳۹ ۵۳ ۳۴ (۰۱۷) ۹۸+ پستی: ۹۴۰۴۰۹۱۳۶-۳۱ ۸۱۲ ۸۷۱ ۰۹۱۲

Autoanalyzer BT 1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	24	
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 BT1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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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Autoanalyzer BT1000 – 2000 – 3000

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	225	
Reagent 2	75	
Sample		
Sample vol	6	
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	4				
Max Var.	100%				
N.replicates	1				
Number	1	2	3	4	5
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: ۹۴۵۰۴۰۴۰۹۱۳۶-۰۹۱۲۸۷۱۲۴۳۱

Autoanalyzer BT1000 – 2000 – 3000

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	280	
Reagent 2	90	
Sample		
Sample vol	3	
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 1000 – 2000 – 3000

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	300	
Reagent 2	75	
Sample		
Sample vol	30	
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 1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	5	
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 1000 – 2000 – 3000

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	280	
Reagent 2	90	
Sample		
Sample vol	3	
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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کارخانه: ۸۱-۳۹۳۹۸۰۳۴ (۰۱۷) ۹۸+ - پشتیبانی فنی: ۰۴ ۰۴ ۱۴۰۳۹۳۹۰۹ - شماره ۲۱۷

Autoanalyzer: BT1000 – 2000 – 3000

Test Name: LIPASE

Primary Parameters

Method	Kinetic	
Kind of process	linear	
Filter 1 / Filter 2	578	700
Reaction direction	Increase	
Reagents		
Num of reagents	2	
Reagent 1	300	
Reagent 2	75	
Sample		
Sample vol	6	
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 1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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

BT1000 – 2000 – 3000

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	300	
Reagent 2	60	
Sample		
Sample vol	18	
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 BT 1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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 1000 – 2000 – 3000

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	280	
Reagent 2	85	
Sample		
Sample vol	21	
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	2
Pos.	*	*
Conc.	*	*
ABS	*	*

Autoanalyzer BT 1000 – 2000 – 3000

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	300
Reagent 2	---
Sample	
Sample vol	6
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 1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	3	
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	*	*



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کارخانه: ۸۱-۳۹ ۵۳ ۳۴ (۰۱۷) ۹۸+ پستی: ۵۶۰۴۰۱۴۰-۵۹۳۶-۰۹۱۲ ۸۷۱ ۲۴ ۳۱

Autoanalyzer BT1000 – 2000 – 3000

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	240	
Reagent 2	60	
Sample		
Sample vol	3	
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	*	*



Autoanalyzer BT 1000 – 2000 – 3000

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	300	
Reagent 2	---	
Sample		
Sample vol	5	
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	*	*



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کرجه: ۸۱-۰۲۱-۳۹۸۰۳۴۵۳ (۰۱۷)۹۸+ پشتیبانی فنی: ۰۲۱-۳۹۸۰۳۴۵۳-۰۹۱۲۸۷۱۲۴

Autoanalyzer BT 1000 – 2000 – 3000

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	300
Reagent 2	---
Sample	
Sample vol	15
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 1000 – 2000 – 3000

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	300
Reagent 2	---
Sample	
Sample vol	15
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 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	* *