



**شرکت دلتا درمان پارت**  
سیستم های آزمایشگاهی و مواد مصرفی



دفتر مرکزی: تهران، میدان آرژانتین، خیابان الوند، خیابان سی و پنجم، پلاک ۱۳، طبقه پنجم

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Item Information and test parameters					
Item Name	ACE	Sample Type	Serum	Full Name	ACE
Assay	FIXED	Direction	DECREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	700
Unit	U/L	Decimals	0	Reaction Point	52
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Reagent 1	200	Linear Limit	0.2
Increase	40	Reagent 2	0	Substrate Exhaust	2.5
Decrease	10	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5.8
				Max Conc.	120
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	ADA	Sample Type	Serum	Full Name	ADA
Assay	RATE	Direction	INCREASE	Pri. Wave	546
Blank Point		~		Sec.Wave	700
Unit	U/L	Decimals	1	Reaction Point	64
				~	78

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	4	Reagent 1	140	Linear Limit	0.2
Increase	8	Reagent 2	70	Substrate Exhaust	2.5
Decrease	2	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0
				Max Conc.	200
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	ALBUMIN	Sample Type	Serum	Full Name	ALBUMIN
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	9	~	10	Sec.Wave	700
Unit	g/dL	Decimals	1	Reaction Point	33
				~	34

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	1
				Max Conc.	6
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	ALP	Sample Type	Serum	Full Name	ALP
Assay	RATE	Direction	NCREASE	Pri. Wave	405
Blank Point		~		Sec.Wave	660
Unit	U/L	Decimals	0	Reaction Point	56
				~	76

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	4	Reagent 1	200	Linear Limit	0.2
Increase	8	Reagent 2	50	Substrate Exhaust	2.5
Decrease	2	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	1000
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	ALT	Sample Type	Serum	Full Name	ALT
Assay	RATE	Direction	DECREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	405
Unit	U/L	Decimals	1	Reaction Point	56
				~	76

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Reagent 1	160	Linear Limit	0.2
Increase	40	Reagent 2	40	Substrate Exhaust	2.5
Decrease	10	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	2
				Max Conc.	300
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	AMYLASE	Sample Type	Serum	Full Name	AMYLASE
Assay	RATE	Direction	INCREASE	Pri. Wave	405
Blank Point		~		Sec.Wave	660
Unit	U/L	Decimals	0	Reaction Point	20
				~	40

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	4	Reagent 1	200	Linear Limit	0.2
Increase	8	Reagent 2	0	Substrate Exhaust	2.5
Decrease	2	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	2000
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	ASO	Sample Type	Serum	Full Name	ASO
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	14	~	15	Reaction Point	69
Unit	IU/MI	Decimals	0	~	70
				Sec.Wave	

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	3	Reagent 1	200	Linear Limit	0.2
Increase	6	Reagent 2	50	R1 Blank Lower	0
Decrease	1.5	Reagent 3	0	Min Conc.	0
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	800
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	AST	Sample Type	Serum	Full Name	AST
Assay	RATE	Direction	DECREASE	Pri. Wave	340
Blank Point		~		Reaction Point	56
Unit	U/L	Decimals	0	~	76
				Sec.Wave	405

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Reagent 1	160	Linear Limit	0.2
Increase	40	Reagent 2	40	R1 Blank Lower	0
Decrease	10	Reagent 3	0	Min Conc.	2
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	300
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	BILLI-T	Sample Type	Serum	Full Name	BILLI-T
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	47	~	48	Reaction Point	81
Unit	mg/dl	Decimals	2	~	82
				Sec.Wave	700

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	6	Reagent 1	200	Linear Limit	0.2
Increase	12	Reagent 2	50	R1 Blank Lower	0
Decrease	3	Reagent 3	0	Min Conc.	0.12
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	20
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	BILLI-D	Sample Type	Serum	Full Name	BILLI-D
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	2	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	25	Reagent 1	200	Linear Limit	0.2
Increase	50	Reagent 2	50	Substrate Exhaust	2.5
Decrease	12	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.1
				Max Conc.	10
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	C3	Sample Type	Serum	Full Name	C3
Assay	END-POINT	Direction	INCREASE	Pri. Wave	340
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	160	Linear Limit	0.2
Increase	4	Reagent 2	40	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	10
				Max Conc.	350
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	C4	Sample Type	Serum	Full Name	C4
Assay	END-POINT	Direction	INCREASE	Pri. Wave	340
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	4	Reagent 1	160	Linear Limit	0.2
Increase	8	Reagent 2	40	Substrate Exhaust	2.5
Decrease	2	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	90
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	CALCIUM	Sample Type	Serum	Full Name	CALCIUM
Assay	END-POINT	Direction	INCREASE	Pri. Wave	660
Blank Point	9	~	10	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	33
				~	34

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	1
				Max Conc.	20
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	CHOL	Sample Type	Serum	Full Name	CHOLESTEROL
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	9	~	10	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	500
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	CK-NAC	Sample Type	Serum	Full Name	CK-NAC
Assay	RATE	Direction	INCREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	405
Unit	U/L	Decimals	0	Reaction Point	60
				~	80

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	8	Reagent 1	160	Linear Limit	0.2
Increase	16	Reagent 2	40	Substrate Exhaust	2.5
Decrease	4	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	10
				Max Conc.	2000
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	CK-MB	Sample Type	Serum	Full Name	CK-MB
Assay	RATE	Direction	INCREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	405
Unit	U/L	Decimals	0	Reaction Point	60
				~	80

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	16	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	32	Reagent 1	160	R1 Blank Lower	0
Decrease	8	Reagent 2	40	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	1.9
		Reagent 4	0	Max Conc.	318
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	COPPER	Sample Type	Serum	Full Name	COPPER
Assay	END-POINT	Direction	INCREASE	Pri. Wave	578
Blank Point	9	~	10	Sec.Wave	700
Unit	µg/dl	Decimals	0	Reaction Point	33
				~	34

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	10	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	20	Reagent 1	200	R1 Blank Lower	0
Decrease	5	Reagent 2	0	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	16
		Reagent 4	0	Max Conc.	500
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	CRP	Sample Type	Serum	Full Name	CRP
Assay	END-POINT	Direction	INCREASE	Pri. Wave	605
Blank Point	14	~	15	Sec.Wave	
Unit	mg/L	Decimals	1	Reaction Point	69
				~	70

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	4	Reagent 1	160	R1 Blank Lower	0
Decrease	1.5	Reagent 2	40	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	2
		Reagent 4	0	Max Conc.	100
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	SPLINE
Repeat	2

Item Information and test parameters					
Item Name	<input type="text" value="CREAT"/>	Sample Type	<input type="text" value="Serum"/>	Full Name	<input type="text" value="CREATININE"/>
Assay	<input type="text" value="FIXED"/>	Direction	<input type="text" value="INCREASE"/>	Pri. Wave	<input type="text" value="505"/> <input type="text" value="660"/>
Blank Point	<input type="text"/>	~	<input type="text"/>	Reaction Point	<input type="text" value="54"/> <input type="text" value="62"/>
Unit	<input type="text" value="mg/dl"/>	Decimals	<input type="text" value="2"/>		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	<input type="text" value="20"/>	Reagent 1	<input type="text" value="100"/>	Linear Limit	<input type="text" value="0.2"/> <input type="text" value="2.5"/>
Increase	<input type="text" value="40"/>	Reagent 2	<input type="text" value="100"/>	R1 Blank Lower	<input type="text" value="0"/> <input type="text" value="3"/>
Decrease	<input type="text" value="10"/>	Reagent 3	<input type="text" value="0"/>	Min Conc.	<input type="text" value="0.2"/> <input type="text" value="15"/>
		Reagent 4	<input type="text" value="0"/>	Conc. Factor A	<input type="text" value="1"/> <input type="text" value="0"/>

Calibration Param	
Calib Assay	<input type="text" value="2-POINT LINEARITY"/>
Repeat	<input type="text" value="2"/>

Item Information and test parameters					
Item Name	<input type="text" value="FERRITIN"/>	Sample Type	<input type="text" value="Serum"/>	Full Name	<input type="text" value="FERRITIN"/>
Assay	<input type="text" value="FIXED"/>	Direction	<input type="text" value="INCREASE"/>	Pri. Wave	<input type="text" value="570"/> <input type="text" value="800"/>
Blank Point	<input type="text"/>	~	<input type="text"/>	Reaction Point	<input type="text" value="52"/> <input type="text" value="82"/>
Unit	<input type="text" value="µg/dl"/>	Decimals	<input type="text" value="0"/>		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	<input type="text" value="10"/>	Reagent 1	<input type="text" value="120"/>	Linear Limit	<input type="text" value="0.2"/> <input type="text" value="2.5"/>
Increase	<input type="text" value="20"/>	Reagent 2	<input type="text" value="40"/>	R1 Blank Lower	<input type="text" value="0"/> <input type="text" value="3"/>
Decrease	<input type="text" value="5"/>	Reagent 3	<input type="text" value="0"/>	Min Conc.	<input type="text" value="10"/> <input type="text" value="600"/>
		Reagent 4	<input type="text" value="0"/>	Conc. Factor A	<input type="text" value="1"/> <input type="text" value="0"/>

Calibration Param	
Calib Assay	<input type="text" value="Logit-Log4p"/>
Repeat	<input type="text" value="2"/>

Item Information and test parameters					
Item Name	<input type="text" value="GGT"/>	Sample Type	<input type="text" value="Serum"/>	Full Name	<input type="text" value="GGT"/>
Assay	<input type="text" value="RATE"/>	Direction	<input type="text" value="INCREASE"/>	Pri. Wave	<input type="text" value="405"/> <input type="text" value="660"/>
Blank Point	<input type="text"/>	~	<input type="text"/>	Reaction Point	<input type="text" value="60"/> <input type="text" value="80"/>
Unit	<input type="text" value="U/L"/>	Decimals	<input type="text" value="0"/>		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	<input type="text" value="20"/>	Reagent 1	<input type="text" value="160"/>	Linear Limit	<input type="text" value="0.2"/> <input type="text" value="2.5"/>
Increase	<input type="text" value="40"/>	Reagent 2	<input type="text" value="40"/>	R1 Blank Lower	<input type="text" value="0"/> <input type="text" value="3"/>
Decrease	<input type="text" value="10"/>	Reagent 3	<input type="text" value="0"/>	Min Conc.	<input type="text" value="5"/> <input type="text" value="300"/>
		Reagent 4	<input type="text" value="0"/>	Conc. Factor A	<input type="text" value="1"/> <input type="text" value="0"/>

Calibration Param	
Calib Assay	<input type="text" value="2-POINT LINEARITY"/>
Repeat	<input type="text" value="2"/>

Item Information and test parameters					
Item Name	GLUCOSE	Sample Type	Serum	Full Name	GLUCOSE
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	9	~	10	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	400
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	HDL-C	Sample Type	Serum	Full Name	HDL-C
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	180	Linear Limit	0.2
Increase	4	Reagent 2	60	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	100
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	IgA	Sample Type	Serum	Full Name	IgA
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	160	Linear Limit	0.2
Increase	4	Reagent 2	40	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	40
				Max Conc.	600
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	IgG	Sample Type	Serum	Full Name	IgG
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	240	Linear Limit	0.2
Increase	4	Reagent 2	60	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	180
				Max Conc.	2000
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	IgM	Sample Type	Serum	Full Name	IgM
Assay	END-POINT	Direction	INCREASE	Pri. Wave	340
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	160	Linear Limit	0.2
Increase	4	Reagent 2	40	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	15
				Max Conc.	300
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	IRON	Sample Type	Serum	Full Name	IRON
Assay	END-POINT	Direction	INCREASE	Pri. Wave	570
Blank Point	47	~	48	Sec.Wave	
Unit	µg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Reagent 1	160	Linear Limit	0.2
Increase	40	Reagent 2	40	Substrate Exhaust	2.5
Decrease	10	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	400
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	LACTATE	Sample Type	Serum	Full Name	LACTATE
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	9	~	10	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	47
				~	48

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0
				Max Conc.	140
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	LDH	Sample Type	Serum	Full Name	LDH
Assay	RATE	Direction	DECREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	405
Unit	U/L	Decimals	0	Reaction Point	56
				~	76

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	5	Reagent 1	200	Linear Limit	0.2
Increase	10	Reagent 2	50	Substrate Exhaust	2.5
Decrease	2.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	10
				Max Conc.	1600
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	LDL-C	Sample Type	Serum	Full Name	LDL-C
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	180	Linear Limit	0.2
Increase	4	Reagent 2	60	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	10
				Max Conc.	400
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	LIPASE	Sample Type	Serum	Full Name	LIPASE
Assay	RATE	Direction	INCREASE	Pri. Wave	578
Blank Point		~		Sec.Wave	700
Unit	U/L	Decimals	0	Reaction Point	57
				~	69

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	3	Reagent 1	250	Linear Limit	0.2
Increase	6	Reagent 2	50	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5
				Max Conc.	250
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	MG	Sample Type	Serum	Full Name	MAGNESIUM
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	9	~	10	Sec.Wave	700
Unit	m/dl	Decimals		Reaction Point	33
				~	34

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	200	Linear Limit	0.2
Increase	4	Reagent 2	0	Substrate Exhaust	2.5
Decrease	1.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.5
				Max Conc.	5
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	M.ALB	Sample Type	Serum	Full Name	MICROALBUMIN
Assay	END-POINT	Direction	INCREASE	Pri. Wave	340
Blank Point	47	~	48	Sec.Wave	700
Unit	mg/L	Decimals	1	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	5	Reagent 1	200	Linear Limit	0.2
Increase	10	Reagent 2	50	Substrate Exhaust	2.5
Decrease	2.5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	2
				Max Conc.	290
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	PHOS	Sample Type	Serum	Full Name	PHOSPHORUS
Assay	END-POINT	Direction	INCREASE	Pri. Wave	340      Sec.Wave      700
Blank Point	9	~	10	Reaction Point	33      ~      34
Unit	mg/dl	Decimals	1		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters					
Normal	2	Reagent 1	200	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	4	Reagent 2	0	R1 Blank Lower	0	R1 Blank Upper	3
Decrease	1.5	Reagent 3	0	Min Conc.	1.25	Max Conc.	25
		Reagent 4	0	Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	RF	Sample Type	Serum	Full Name	RF
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600      Sec.Wave
Blank Point	14	~	15	Reaction Point	81      ~      82
Unit	IU/ml	Decimals	1		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters					
Normal	4	Reagent 1	160	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	6	Reagent 2	40	R1 Blank Lower	0	R1 Blank Upper	3
Decrease	1.5	Reagent 3	0	Min Conc.	2	Max Conc.	130
		Reagent 4	0	Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	SPLINE
Repeat	2

Item Information and test parameters					
Item Name	T.PRO	Sample Type	Serum	Full Name	TOTAL PROTEIN
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546      Sec.Wave      700
Blank Point	9	~	10	Reaction Point	33      ~      34
Unit	g/dl	Decimals	1		

Test Saple Vol.	Reagent Vol.	Verify and modify parameters					
Normal	5	Reagent 1	200	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	10	Reagent 2	0	R1 Blank Lower	0	R1 Blank Upper	3
Decrease	2.5	Reagent 3	0	Min Conc.	1	Max Conc.	14
		Reagent 4	0	Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	TIBC	Sample Type	Serum	Full Name	TIBC
Assay	END-POINT	Direction	DECREASE	Pri. Wave	660
Blank Point	47	~	48	Sec.Wave	800
Unit	ug/Dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	40	Reagent 1	200	R1 Blank Lower	0
Decrease	10	Reagent 2	60	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	77
		Reagent 4	0	Max Conc.	694
		Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	TG	Sample Type	Serum	Full Name	TRIGLYCERIDES
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	9	~	10	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	81
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	4	Reagent 1	200	R1 Blank Lower	0
Decrease	1.5	Reagent 2	0	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	5
		Reagent 4	0	Max Conc.	700
		Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	UREA	Sample Type	Serum	Full Name	UREA
Assay	FIXED	Direction	DECREASE	Pri. Wave	340
Blank Point		~		Sec.Wave	405
Unit	mg/dl	Decimals	0	Reaction Point	54
				~	62

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	4	Reagent 1	160	R1 Blank Lower	0
Decrease	1.5	Reagent 2	40	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	2
		Reagent 4	0	Max Conc.	200
		Conc. Factor A	1	Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	U.A	Sample Type	Serum	Full Name	URIC ACID
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546      Sec.Wave 700
Blank Point	14	~	15	Reaction Point	69      ~ 70
Unit	mg/dl	Decimals	1		

Test Suple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	6	Reagent 1	120	Linear Limit	0.2      Substrate Exhaust 2.5
Increase	12	Reagent 2	120	R1 Blank Lower	0      R1 Blank Upper 3
Decrease	3	Reagent 3	0	Min Conc.	0.3      Max Conc. 15
		Reagent 4	0	Conc. Factor A	1      Conc. Factor B 0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	U.PRO	Sample Type	Serum	Full Name	Urine Protein
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505      Sec.Wave 700
Blank Point	47	~	48	Reaction Point	81      ~ 82
Unit	mg/dl	Decimals	0		

Test Suple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	14	Reagent 1	180	Linear Limit	0.2      Substrate Exhaust 2.5
Increase	28	Reagent 2	90	R1 Blank Lower	0      R1 Blank Upper 3
Decrease	7	Reagent 3	0	Min Conc.	0.5      Max Conc. 200
		Reagent 4	0	Conc. Factor A	1      Conc. Factor B 0

Calibration Param	
Calib Assay	SPLINE
Repeat	2

Item Information and test parameters					
Item Name	ZN	Sample Type	Serum	Full Name	ZN
Assay	END-POINT	Direction	INCREASE	Pri. Wave	578      Sec.Wave 700
Blank Point	9	~	10	Reaction Point	33      ~ 34
Unit	ug/dl	Decimals	0		

Test Suple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	10	Reagent 1	200	Linear Limit	0.2      Substrate Exhaust 2.5
Increase	20	Reagent 2	0	R1 Blank Lower	0      R1 Blank Upper 3
Decrease	5	Reagent 3	0	Min Conc.	5.25      Max Conc. 500
		Reagent 4	0	Conc. Factor A	1      Conc. Factor B 0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	CRP-HL	Sample Type	Serum	Full Name	CRP-HL
Assay	FIXED	Direction	INCREASE	Pri. Wave	600
Blank Point		~		Reaction Point	52
Unit	mg/L	Decimals	1	Sec.Wave	
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	2	Reagent 1	160	Linear Limit	0.2
Increase	4	Reagent 2	40	R1 Blank Lower	0
Decrease	1.5	Reagent 3	0	Min Conc.	0.2
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	320
				Conc. Factor B	0

Calibration Param	
Calib Assay	Logit-Log4P
Repeat	2

Item Information and test parameters					
Item Name	HB	Sample Type	Serum	Full Name	HB
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	14	~	15	Reaction Point	47
Unit	umol/L	Decimals	2	Sec.Wave	800
				~	48

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	12	Reagent 1	180	Linear Limit	0.2
Increase	24	Reagent 2	0	R1 Blank Lower	0
Decrease	6	Reagent 3	0	Min Conc.	-9999
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	9999
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	A1c	Sample Type	Serum	Full Name	A1c
Assay	END-POINT	Direction	INCREASE	Pri. Wave	660
Blank Point	47	~	48	Reaction Point	81
Unit	mg/dl	Decimals	2	Sec.Wave	800
				~	82

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	12	Reagent 1	180	Linear Limit	0.2
Increase	24	Reagent 2	60	R1 Blank Lower	0
Decrease	6	Reagent 3	0	Min Conc.	-9999
		Reagent 4	0	Conc. Factor A	1
				Substrate Exhaust	2.5
				R1 Blank Upper	3
				Max Conc.	9999
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2