



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	15
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	36	Reagent 1	200	R1 Blank Lower	0
Decrease	9	Reagent 2	0	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	5.8
		Reagent 4	0	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	24
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	4	Linear Limit	0.2	Substrate Exhaust	2.5
Increase	8	Reagent 1	140	R1 Blank Lower	0
Decrease	2	Reagent 2	70	R1 Blank Upper	3
		Reagent 3	0	Min Conc.	0
		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	ALB	Sample Type	Serum	Full Name	ALBUMIN
Assay	END-POINT	Direction	INCREASE	Pri. Wave	600
Blank Point	3	~	4	Sec.Wave	700
Unit	g/dl	Decimals	1	Reaction Point	9
				~	10

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.	1
		Reagent 4	0	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	19
				~	28

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	19
				~	28

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	6
				~	15

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	5	~	6	Reaction Point	25
Unit	IU/MI	Decimals	0	Sec.Wave	
				~	26

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	3	Reagent 1	200	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.	0
				Max Conc.	800
				Conc. Factor A	1
				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	19
Unit	U/L	Decimals	0	Sec.Wave	405
				~	28

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	BILLI-T	Sample Type	Serum	Full Name	BILLI-T
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	14	~	15	Reaction Point	30
Unit	mg/dl	Decimals	2	Sec.Wave	700
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	6	Reagent 1	200	Linear Limit	0.2
Increase	12	Reagent 2	50	Substrate Exhaust	2.5
Decrease	3	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.12
				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	BILLI-D	Sample Type	Serum	Full Name	BILLI-D
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	2	Reaction Point	30
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	25	Reagent 1	200	Linear Limit	0.2
Increase		Reagent 2	50	Substrate Exhaust	2.5
Decrease		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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	30
				~	31

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	3	~	4	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	9
				~	10

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	14	~	15	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	22
				~	31

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	22
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	16	Reagent 1	160	Linear Limit	0.2
Increase	32	Reagent 2	40	Substrate Exhaust	2.5
Decrease	8	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	1.9
				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	3	~	4	Sec.Wave	700
Unit	µg/dl	Decimals	0	Reaction Point	9
				~	10

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	10	Reagent 1	200	Linear Limit	0.2
Increase	20	Reagent 2	0	Substrate Exhaust	2.5
Decrease	5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	16
				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	5	~	6	Sec.Wave	
Unit	mg/L	Decimals	1	Reaction Point	25
				~	26

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.	2
				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	CREAT	Sample Type	Serum	Full Name	CREATININE
Assay	FIXED	Direction	INCREASE	Pri. Wave	505
Blank Point		~		Sec.Wave	660
Unit	mg/dl	Decimals	2	Reaction Point	18
				~	22

Test Suple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	20	Reagent 1	100	Linear Limit	0.2
Increase	40	Reagent 2	100	Substrate Exhaust	2.5
Decrease	10	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.2
				Max Conc.	15
				Conc. Factor A	1
				Conc. Factor B	0

Calibration Param	
Calib Assay	2-POINT LINEARITY
Repeat	2

Item Information and test parameters					
Item Name	FERRITIN	Sample Type	Serum	Full Name	FERRITIN
Assay	FIXED	Direction	INCREASE	Pri. Wave	570
Blank Point		~		Sec.Wave	800
Unit	µg/dl	Decimals	0	Reaction Point	19
				~	31

Test Suple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	10	Reagent 1	120	Linear Limit	0.2
Increase	20	Reagent 2	40	Substrate Exhaust	2.5
Decrease	5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	10
				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	GGT	Sample Type	Serum	Full Name	GGT
Assay	RATE	Direction	INCREASE	Pri. Wave	405
Blank Point		~		Sec.Wave	660
Unit	U/L	Decimals	0	Reaction Point	22
				~	31

Test Suple 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.	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	GLUCOSE	Sample Type	Serum	Full Name	GLUCOSE
Assay	END-POINT	Direction	INCREASE	Pri. Wave	505
Blank Point	3	~	4	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	
Unit	µg/dl	Decimals	0	Reaction Point	30
				~	31

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	3	~	4	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	15
				~	16

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	19
				~	28

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	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	20
				~	26

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	3	~	4	Sec.Wave	700
Unit	m/dl	Decimals		Reaction Point	9
				~	10

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	14	~	15	Sec.Wave	700
Unit	mg/L	Decimals	1	Reaction Point	30
				~	31

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	3	~	4	Reaction Point	9 ~ 10
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	5	~	6	Reaction Point	30 ~ 31
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	3	~	4	Reaction Point	9 ~ 10
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	14	~	15	Sec.Wave	800
Unit	ug/Dl	Decimals	0	Reaction Point	30
				~	31

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	14	~	15	Sec.Wave	660
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

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	412
Unit	mg/dl	Decimals	0	Reaction Point	18
				~	22

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	URIC ACID	Sample Type	Serum	Full Name	URIC ACID
Assay	END-POINT	Direction	INCREASE	Pri. Wave	546
Blank Point	5	~	6	Sec.Wave	700
Unit	mg/dl	Decimals	1	Reaction Point	25
				~	26

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	6	Reagent 1	120	Linear Limit	0.2
Increase	12	Reagent 2	120	Substrate Exhaust	2.5
Decrease	3	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.3
				Max Conc.	15
				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
Blank Point	14	~	15	Sec.Wave	700
Unit	mg/dl	Decimals	0	Reaction Point	30
				~	31

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	14	Reagent 1	180	Linear Limit	0.2
Increase	28	Reagent 2	90	Substrate Exhaust	2.5
Decrease	7	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	0.5
				Max Conc.	200
				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
Blank Point	3	~	4	Sec.Wave	700
Unit	ug/dl	Decimals	0	Reaction Point	9
				~	10

Test Saple Vol.	Reagent Vol.	Verify and modify parameters			
Normal	10	Reagent 1	200	Linear Limit	0.2
Increase	20	Reagent 2	0	Substrate Exhaust	2.5
Decrease	5	Reagent 3	0	R1 Blank Lower	0
		Reagent 4	0	R1 Blank Upper	3
				Min Conc.	5.25
				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-HL	Sample Type	Serum	Full Name	CRP-HL
Assay	FIXED	Direction	INCREASE	Pri. Wave	600
Blank Point		~		Reaction Point	19
Unit	mg/L	Decimals	1	Sec.Wave	
				~	31

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	3	~	4	Reaction Point	14
Unit	umol/L	Decimals	2	Sec.Wave	800
				~	15

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	14	~	15	Reaction Point	30
Unit	mg/dl	Decimals	2	Sec.Wave	800
				~	31

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