



**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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فکس : ۸۸۸۵۶۴۰۳

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Chem	ACE	Sample Type	Serum
Chemistry		Print Name	ACE
Reaction Type	FIXED TIME	Rection Direction	Negative
Pri. Wave	340	Sec. Wave	700
Unit	U/L	Decimal	0
Blank Time		Reaction Time	15 31

	Sample. VOL		Reagent. VOL
Standard	15 uL	R1	150 uL
Decreased		R2	
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	ADA	Sample Type	Serum
Chemistry		Print Name	ADA
Reaction Type	KINETIC	Rection Direction	Positive
Pri. Wave	546	Sec. Wave	700
Unit	U/L	Decimal	0.1
Blank Time		Reaction Time	24 31

	Sample. VOL		Reagent. VOL
Standard	3 uL	R1	100 uL
Decreased		R2	50 uL
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	ALBUMIN	Sample Type	Serum
Chemistry		Print Name	ALBUMIN
Reaction Type	END POINT	Rection Direction	Positive
Pri. Wave	605	Sec. Wave	700
Unit	g/dl	Decimal	0.1
Blank Time	3 4	Reaction Time	9 10

	Sample. VOL		Reagent. VOL
Standard	2 uL	R1	200 uL
Decreased		R2	
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	ALP	Sample Type	Serum
Chemistry		Print Name	ALP
Reaction Type	KINETIC	Rection Direction	Positive
Pri. Wave	412	Sec. Wave	660
Unit	U/L	Decimal	0
Blank Time		Reaction Time	19 28
	Sample. VOL		Reagent. VOL
Standard	2.5 uL	R1	120 uL
Decreased		R2	30 uL
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	ALT	Sample Type	Serum
Chemistry		Print Name	GPT-(ALT)
Reaction Type	KINETIC	Rection Direction	Negative
Pri. Wave	340	Sec. Wave	412
Unit	U/L	Decimal	0.1
Blank Time		Reaction Time	19 28
	Sample. VOL		Reagent. VOL
Standard	15 uL	R1	120 uL
Decreased		R2	30 uL
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	AMYLASE	Sample Type	Serum
Chemistry		Print Name	AMYLASE
Reaction Type	KINETIC	Rection Direction	Positive
Pri. Wave	412	Sec. Wave	660
Unit	U/L	Decimal	0
Blank Time		Reaction Time	6 15
	Sample. VOL		Reagent. VOL
Standard	3 uL	R1	150 uL
Decreased		R2	
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

Chem	ASO		Sample Type	Serum	
Chemistry			Print Name	ASO	
Reaction Type	END POINT		Reaction Direction	Positive	
Pri. Wave	605		Sec. Wave		
Unit	IU/ml		Decimal	0	
Blank Time	3	4	Reaction Time	18	20

	Sample. VOL		Reagent. VOL
Standard	1.5 uL	R1	100 uL
Decreased	uL	R2	25 uL
Increased	uL	R3	uL

CALIBRATION	
RULE	TWO POINT LINEAR
REPLICATES	2

Chem	AST		Sample Type	Serum	
Chemistry			Print Name	GOT-(AST)	
Reaction Type	KINETIC		Reaction Direction	Negative	
Pri. Wave	340		Sec. Wave	412	
Unit	U/L		Decimal	0	
Blank Time			Reaction Time	19	28

	Sample. VOL		Reagent. VOL
Standard	15 uL	R1	120 uL
Decreased	uL	R2	30 uL
Increased	uL	R3	uL

CALIBRATION	
RULE	TWO POINT LINEAR
REPLICATES	2

Chem	BILL-T		Sample Type	Serum	
Chemistry			Print Name	Total Bilirubin	
Reaction Type	END POINT		Reaction Direction	Positive	
Pri. Wave	546		Sec. Wave	700	
Unit	mg/dl		Decimal	0.01	
Blank Time	14	16	Reaction Time	30	32

	Sample. VOL		Reagent. VOL
Standard	3.5 uL	R1	120 uL
Decreased	uL	R2	30 uL
Increased	uL	R3	uL

CALIBRATION	
RULE	TWO POINT LINEAR
REPLICATES	2

Chem	BILL-D		Sample Type	Serum	
Chemistry			Print Name	Direct Bilirubin	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	546		Sec. Wave	700	
Unit	mg/dl		Decimal	0.01	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	15	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR				
REPLICATES	2				

Chem	C3		Sample Type	Serum	
Chemistry			Print Name	C3	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	LogitLog 4P (6POINT)				
REPLICATES	2				

Chem	C4		Sample Type	Serum	
Chemistry			Print Name	C4	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	700	
Unit	mg/dl		Decimal	0.1	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	3	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	LogitLog 4P (6POINT)				
REPLICATES	2				

Chem	CALCIUM		Sample Type	Serum	
Chemistry			Print Name	CALCIUM	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	660		Sec. Wave	700	
Unit	mg/dl		Decimal	0.1	
Blank Time	3	4	Reaction Time	9	10
	Sample. VOL		Reagent. VOL		
Standard	2	uL	R1	200	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	CHOLESTEROL		Sample Type	Serum	
Chemistry			Print Name	CHOLESTEROL	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	505		Sec. Wave	660	
Unit	mg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	150	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	CK-NAC		Sample Type	Serum	
Chemistry			Print Name	CK-NAC	
Reaction Type	KINETIC		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	412	
Unit	U/L		Decimal	0	
Blank Time			Reaction Time	22	31
	Sample. VOL		Reagent. VOL		
Standard	6	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	CK-MB		Sample Type	Serum	
Chemistry			Print Name	CK-MB	
Reaction Type	KINETIC		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	412	
Unit	U/L		Decimal	0	
Blank Time			Reaction Time	22	31
	Sample. VOL		Reagent. VOL		
Standard	12	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION	
RULE	TWO POINT LINEAR
REPLICATES	2

Chem	COPPER		Sample Type	Serum	
Chemistry			Print Name	COPPER	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	570		Sec. Wave	700	
Unit	µg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	9	10
	Sample. VOL		Reagent. VOL		
Standard	10	uL	R1	200	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION	
RULE	TWO POINT LINEAR
REPLICATES	2

Chem	CRP		Sample Type	Serum	
Chemistry			Print Name	CRP	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	605		Sec. Wave		
Unit	mg/L		Decimal	0	
Blank Time	5	6	Reaction Time	20	22
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION	
RULE	SPLINE (5POINT)
REPLICATES	2

CHem	<b>Creatinine Jaffe</b>	Sample Type	Serum
CHemistry		Print Name	Creatinine Jaffe
Reaction Type	FIXED TIME	Rection Direction	Positive
Pri. Wave	505	Sec. Wave	660
Unit	mg/dl	Decimal	0
Blank Time		Reaction Time	19 24
	Sample. VOL		Reagent. VOL
Standard	20 uL	R1	100 uL
Decreased		R2	100 uL
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2

CHem	<b>FERRITIN</b>	Sample Type	Serum
CHemistry		Print Name	FERRITIN
Reaction Type	FIXED TIME	Rection Direction	Positive
Pri. Wave	570	Sec. Wave	800
Unit	µg/L	Decimal	0
Blank Time		Reaction Time	19 31
	Sample. VOL		Reagent. VOL
Standard	10 uL	R1	120 uL
Decreased		R2	40 uL
Increased		R3	

CALIBRATION

RULE	LogitLog 4P (6POINT)
REPLICATES	2

CHem	<b>GGT</b>	Sample Type	Serum
CHemistry		Print Name	GGT
Reaction Type	KINETIC	Rection Direction	Positive
Pri. Wave	412	Sec. Wave	660
Unit	U/L	Decimal	0
Blank Time		Reaction Time	22 31
	Sample. VOL		Reagent. VOL
Standard	15 uL	R1	120 uL
Decreased		R2	30 uL
Increased		R3	

CALIBRATION

RULE	TWO POINT LINEAR
REPLICATES	2



Chem	GLUCOSE		Sample Type	Serum	
Chemistry			Print Name	GLUCOSE	
Reaction Type	END POINT		Reaction Direction	Positive	
Pri. Wave	505		Sec. Wave	660	
Unit	mg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	30	32
	Sample. VOL			Reagent. VOL	
Standard	1.5	uL	R1	150	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	HDL-C		Sample Type	Serum	
Chemistry			Print Name	HDL-C	
Reaction Type	END POINT		Reaction Direction	Positive	
Pri. Wave	605		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL			Reagent. VOL	
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	40	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	IgA		Sample Type	Serum	
Chemistry			Print Name	IgA	
Reaction Type	END POINT		Reaction Direction	Positive	
Pri. Wave	605		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL			Reagent. VOL	
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	LogitLog 4P (6POINT)	
REPLICATES	2	

CHem	IgG		Sample Type	Serum	
CHemistry			Print Name	IgG	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	605		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	LogitLog 4P (6POINT)	
REPLICATES	2	

CHem	IgM		Sample Type	Serum	
CHemistry			Print Name	IgM	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	LogitLog 4P (6POINT)	
REPLICATES	2	

CHem	IRON		Sample Type	Serum	
CHemistry			Print Name	IRON	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	570		Sec. Wave		
Unit	µg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	15	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	LACTATE		Sample Type	Serum	
Chemistry			Print Name	LACTATE	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	505		Sec. Wave	660	
Unit	mg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	14	16
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	150	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	LDH		Sample Type	Serum	
Chemistry			Print Name	LDH	
Reaction Type	KINETIC		Rection Direction	negative	
Pri. Wave	340		Sec. Wave	412	
Unit	U/L		Decimal	0	
Blank Time			Reaction Time	19	25
	Sample. VOL		Reagent. VOL		
Standard	3	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	LDL-C		Sample Type	Serum	
Chemistry			Print Name	LDL-C	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	605		Sec. Wave	700	
Unit	mg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	40	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	<b>LIPASE</b>		Sample Type	Serum	
Chemistry			Print Name	LIPASE	
Reaction Type	KINETIC		Rection Direction	Positive	
Pri. Wave	570		Sec. Wave		
Unit	U/L		Decimal	0	
Blank Time			Reaction Time	20	26
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	125	uL
Decreased		uL	R2	25	uL
Increased		uL	R3		uL
CALIBRATION					
RULE	TWO POINT LINEAR				
REPLICATES	2				

Chem	<b>MAGNESIUM</b>		Sample Type	Serum	
Chemistry			Print Name	MAGNESIUM	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	546		Sec. Wave	700	
Unit	mg/dl		Decimal	0.01	
Blank Time	3	4	Reaction Time	9	10
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	150	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL
CALIBRATION					
RULE	TWO POINT LINEAR				
REPLICATES	2				

Chem	<b>Microalbumin</b>		Sample Type	Urine	
Chemistry			Print Name	Microalbumin	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	700	
Unit	mg/L		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	4	uL	R1	160	uL
Decreased		uL	R2	40	uL
Increased		uL	R3		uL
CALIBRATION					
RULE	LogitLog 4P (6POINT)				
REPLICATES	2				

Chem	PHOSPHORUS		Sample Type	Serum	
Chemistry			Print Name	PHOSPHORUS	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	340		Sec. Wave	412	
Unit	mg/dl		Decimal	0.1	
Blank Time	3	4	Reaction Time	9	10

	Sample. VOL		Reagent. VOL
Standard	1.5 uL	R1	150 uL
Decreased	uL	R2	uL
Increased	uL	R3	uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	RF		Sample Type	Serum	
Chemistry			Print Name	RF	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	605		Sec. Wave		
Unit	IU/ml		Decimal	0	
Blank Time	5	6	Reaction Time	30	32

	Sample. VOL		Reagent. VOL
Standard	2.5 uL	R1	120 uL
Decreased	uL	R2	30 uL
Increased	uL	R3	uL

CALIBRATION

RULE	SPLINE (6POINT)	
REPLICATES	2	

Chem	TOTAL PROTEIN		Sample Type	Serum	
Chemistry			Print Name	TOTAL PROTEIN	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	546		Sec. Wave	700	
Unit	g/dl		Decimal	0.1	
Blank Time	3	4	Reaction Time	9	10

	Sample. VOL		Reagent. VOL
Standard	4 uL	R1	160 uL
Decreased	uL	R2	uL
Increased	uL	R3	uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	HBA1C		Sample Type	Serum	
Chemistry			Print Name	HBA1C	
Reaction Type	FIXED TIME		Rection Direction	Positive	
Pri. Wave	660		Sec. Wave	800	
Unit	%		Decimal	0.1	
Blank Time			Reaction Time	19	31
	Sample. VOL		Reagent. VOL		
Standard	5	uL	R1	180	uL
Decreased		uL	R2	60	uL
Increased		uL	R3		uL
CALIBRATION					
RULE	Logit Log 4P (6 POINTS)				
REPLICATES	2				

Chem	TRIGLYCERIDES		Sample Type	Serum	
Chemistry			Print Name	TRIGLYCERIDES	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	505		Sec. Wave	660	
Unit	mg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	150	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL
CALIBRATION					
RULE	TWO POINT LINEAR				
REPLICATES	2				

Chem	UREA		Sample Type	Serum	
Chemistry			Print Name	UREA	
Reaction Type	FIXED TIME		Rection Direction	Negative	
Pri. Wave	340		Sec. Wave	412	
Unit	mg/dl		Decimal	0	
Blank Time			Reaction Time	19	24
	Sample. VOL		Reagent. VOL		
Standard	1.5	uL	R1	120	uL
Decreased		uL	R2	30	uL
Increased		uL	R3		uL
CALIBRATION					
RULE	TWO POINT LINEAR				
REPLICATES	2				

Chem	URIC ACID		Sample Type	Serum	
Chemistry			Print Name	URIC ACID	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	546		Sec. Wave	700	
Unit	mg/dl		Decimal	0.1	
Blank Time	5	6	Reaction Time	20	22
	Sample. VOL		Reagent. VOL		
Standard	5	uL	R1	100	uL
Decreased		uL	R2	100	uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

Chem	Urine Protein		Sample Type	Serum	
Chemistry			Print Name	Urine Protein	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	505		Sec. Wave	700	
Unit	mg/L		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL		Reagent. VOL		
Standard	12	uL	R1	150	uL
Decreased		uL	R2	75	uL
Increased		uL	R3		uL

CALIBRATION

RULE	SPLINE (6POINT)	
REPLICATES	2	

Chem	ZN		Sample Type	Serum	
Chemistry			Print Name	Zinc	
Reaction Type	END POINT		Rection Direction	Positive	
Pri. Wave	570		Sec. Wave	700	
	μg/dl		Decimal	0	
Blank Time	3	4	Reaction Time	9	10
	Sample. VOL		Reagent. VOL		
Standard	10	uL	R1	200	uL
Decreased		uL	R2		uL
Increased		uL	R3		uL

CALIBRATION

RULE	TWO POINT LINEAR	
REPLICATES	2	

CHem	TIBC		Sample Type	Serum	
CHemistry			Print Name	TIBC	
Reaction Type	END POINT		Rection Direction	Negative	
Pri. Wave	660		Sec. Wave	800	
Unit	µg/dl		Decimal	0	
Blank Time	14	16	Reaction Time	30	32
	Sample. VOL			Reagent. VOL	
Standard	15	uL	R1	150	uL
Decreased	7	uL	R2	45	uL
Increased	25	uL	R3		uL
CALIBRATION					
RULE	TWO POINT LINEAR				
REPLICATES	2				

