



( )

# PCR

\*

\*\*

PCR

: \_\_\_\_\_

: \_\_\_\_\_

PCR

SrRNA

IgM

PCR

( / )

( / )

: \_\_\_\_\_

IgM

PCR

( )

PCR

: \_\_\_\_\_

SrRNA

PCR

: \_\_\_\_\_

// :

// :

\*

IgM (zoonotic)  
PCR  
DNA  
DNA-DNA  
PCR  
SrRNA  
PCR (real-time) (Taqman)  
IgM  
(MAT)

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<sup>2</sup> Polimerase Chain Reaction

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<sup>1</sup> Microscopic Agglutination Test

/

/

( )

B

PCR

SrRNA

.( )

SrRNA

SrRNA

PCR

/ ± /

PCR

DNA

»

PCR

«

DNA

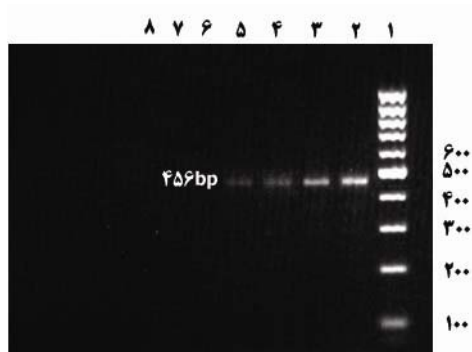
DNA

( )

<sup>3</sup> DNA Gyrase subunit B encoding gene

: .( )  
 PH / EDTA] L6-lysis buffer  
 TritonX- (fluka ) GUSCN  
 ( ) [(merck )  
 Tris-Hcl GUSCN) L2-wash buffer  
 PCR Techne-TC ( / PH /  
 PCR mixture ( ) k  
 (Genekam) DNA DNA DNA PCR  
**PCR**  
 PCR  
 TBE DNA  
 bp DNA  
 (Genekam )  
 PCR  
 PCR  
 DNA (Oligo5 )  
 PCR ( SrRNA  
 bp  
 DNA :  
 L16SF:5'-CACCAAGGCGACGATCGGTAGC-3'  
 L16SR:5'-CAAGTCGCCTTCGCCACTGGTG-3'  
 PCR / PCR  
 PCR DNA Taq DNA  
 dNTP MgCl  
 DNA PCRbuffer10X  
 IgM PCR  
 SERION-ELISA Classic Leptospira

.( )



شکل ۱: الکتروفورز محصول PCR، (۱) مارکر 100bp (۲) ۱ ng (۳) ۱۰۰ pg (۴) ۱۰ pg (۵) ۱۰۰ fg (۶) ۱۰ fg (۷) بدون DNA (۸)

PCR

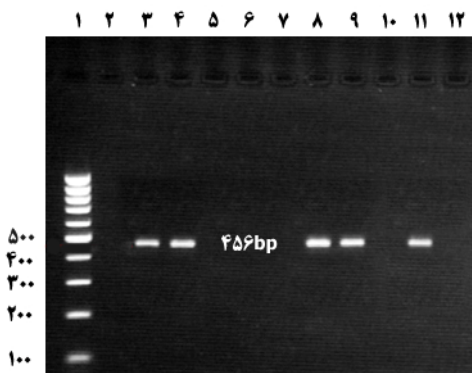
PCR

( / )

.( )

DNA

bp



شکل ۲: الکتروفورز محصول PCR نمونه‌های سرمی (۱) مارکر 100bp (۲) شاهد منفی (۳) شاهد مثبت (۴.۸.۹.۱۱) نمونه‌های سرمی مثبت لبتوسپیرا (۵.۶.۷.۱۰) نمونه‌های سرمی منفی لبتوسپیرا.

IgM

Institut Virion / Serion GmbH

L. Pomona : Leptospira interrogans  
 L. copenhagenil L. icterohaemorrhagiae  
 L. grippityphosa L. Bratislava L. canicola  
 L. bataviae L. sejroe L. hebdomadis  
 L. hardjo L. tarassovi

IgM

(SERION Rheumatoid )

Factor Absorbent Z

IgM

(&gt; U/ml)

bp

-

SrRNA

( NCBI )

(Generunner)

bp

PCR

DNA

PCR  
IgM ( )  
( )

IgM PCR :

PCR		
		IgM
( / )	( / )	( / )*
( / )	( / )	( / )
( )	( / )	( / )

\*اعداد به صورت (درصد) تعداد می باشند.

PCR : / ± / PCR

: / ± /

PCR

MAT

( ) PCR ( / )

PCR

PCR ( / ) ( / )

CSF

PCR ( )

/

/

MAT

PCR

.( )

-

.( )

PCR

PCR

PCR

.( )

SrRNA

S

LipL

bp

real-time

PCR

.( )

(Merien)

SrRNA

bp

DNA

.( )

G<sub>2</sub> G<sub>1</sub>

PCR

(L.Kirschneri)

/ /

Light cycler Taqman

PCR (real-time)

.( )

.( )

PCR

.( )

DNA

PCR

.( )

SrRNA

B

DNA

PCR

.( )

PCR

.( )

PCR

.( )

SSCP

.( )

( / )

.( )

.( )

.( )

IgM

IgM

(Dengue)

.( )  
( )

<sup>4</sup> Single-Strand Conformation Polymorphism Analysis



	MAT		MAT
		.( )	
PCR		PCR	
			IgM
	PCR		
	.( )		
		PCR	
	PCR	.( )	
	.( )		
		.( )	

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