



() -

PCR

*

**

PCR

PCR

IgM

SrRNA

PCR

(/)

(/)

IgM

PCR

()

PCR

SrRNA

PCR

// : - // :

*

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- :

**

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

² Polymerase Chain Reaction

¹ Microscopic Agglutination Test

B

SrRNA

SrRNA

PCR

$$/ \pm /$$

PCR

DNA

PCR

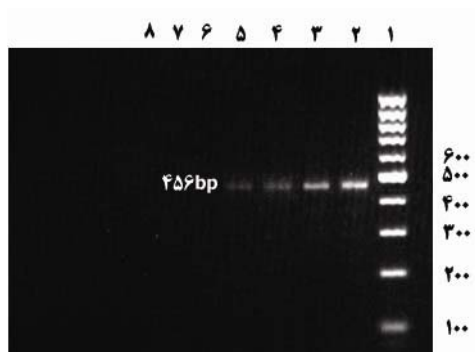
DNA

DNA

$$(\quad)$$
³ 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
 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) ۱ pg (۶) ۱۰۰ fg (۷) ۱۰ fg (۸) بدون DNA

PCR

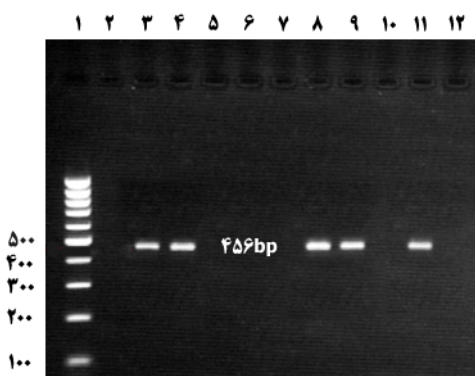
PCR

(/)

.()

DNA

bp



شکل ۲: الکتروفورز محصول PCR نمونه‌های سرمی (۱) مارکر ۱۰۰bp (۲) شاهد منفی (۳) شاهد مثبت (۴.۸.۹.۱۱) نمونه‌های سرمی مثبت لیتوسپیرا (۵.۶.۷.۱۰) نمونه‌های سرمی منفی لیتوسپیرا.

IgM

Institut Virion / Serion GmbH

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

IgM

(SERION Rheumatoid)

Factor Absorbent Z

IgM

(> U/ml)

bp

-

SrRNA

(NCBI)

(Generunner)

bp

PCR

DNA

PCR

PCR

IgM

()

.()

IgM

PCR

:

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

*اعداد به صورت (درصد) تعداد می باشند.

PCR

: / ± / PCR

: / ± /

PCR

. MAT

()

PCR (/)

PCR

PCR

(/) (/)

CSF

PCR

.()

PCR

.()

.()

PCR

PCR

PCR

.()

SrRNA

S

LipL

bp

real-time

•

PCR

(Merien)

.()

SrRNA

bp

DNA

.()

$$G_2 \quad G_1$$

PCR

(L.Kirschneri)

/ /

Light cyclers Taqman

PCR (real-time)

.()

.()

PCR

.()

DNA

PCR

.()

SrRNA

B

DNA

PCR

.()

PCR

.()

PCR

.()⁴SSCP

.()

(/)

.()

.()

.()

IgM

IgM

(Dengue)

/

.()

.()

⁴ Single-Strand Conformation Polymorphism Analysis

/		/
	MAT	MAT
		.()
PCR		PCR
		IgM
	PCR	
-		
/	.()	
		PCR
	PCR	.()
	.()	
		.()

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