

**الكشف عن إنزيم التيلوميريز بواسطة الترحيل الكهربائي
في هلام متعدد الأكريلاميد**

ELISA

credible

false negative results

Abstract

Telomerase activity was measured for 10 different tumor specimens have been collected from diverse parts of the body from several hospitals and research centers in Baghdad to evaluate telomerase activity and to know how much it correlated with diagnosis of cancer in these specimens.

To make sure of the results of another techniques, gel electrophoresis technique in polyacrylamide gel for some specimens have been used. The results of another techniques used to detect telomerase activity have emphasized in polyacrylamide for some samples in somehow to differentiate between credible samples which reflect the real form of the results of another techniques, and false result samples which might be produced by primer dimmer formation.

reverse transcriptase

.(Nugent & Lunbdlad, 1998; Lundblad, 1998)

de nove synthesis

.3' 5'

.(Chatziantoniou, 2001)

.TTAGGG

TTAGGG

. 70-75

:

1994

Kim

.

telomeric

1994

Kim

repeat amplification protocol (TRAP)

elongation

RNA

PCR

(Swant *et al.*, 1997)

autoradiography

(ELISA)

.

Telomerase PCR ELISA

.(Sawant *et al.*,1997)

0.02

1999

Ferlicot

DIG

telomeric repeat

2002

Cheah

.

amplification protocol (TRAP)

ELISA

(

)

PCR

.

: -1

.

CHAPS lysis buffer (Roche)

80

Roche

P1-TS

:PCR

-2

37

.

reverse	Roche	P2	PCR	31
				primer
	(%10)			-3
	1989	Sambrook		
	20	loading buffer	5	-1
			.PCR	
				-2
TBE	Whatman filter paper			-3
			X0.5	
			X0.5 TBE	
10 -12		85		-4
	%75			
			:	-5
	(Wilkinson, 2000)			:A
	(/ 10)			-1
10				-2
		30		
		20-30		-3
		(Stift et al., 2003)		: B
(benzene sulphonic acid) 5×		100	:	-1
		%24	400	
10		1×	500	
.(	)	1×		
	500	(1×	:	-2
			(silver nitrate)	
	30-40		10	
		500	:	-3
		50-60		
(5×		100	:	-4
	1		500	
	) (1×	%2	1 (%37)	
(%37)			:	

(%2)

4-10

(1×) : (Leite *et al.*, 2001) -5

37.5 462.5) 500

4 (%99

. 24 4

120) 400 : -6

. 4 (% 25 60 % 50

(1)

(Kim *et al.*, 1994)

1997

Bosserhoff

(Bodner *et al.*, 1998; Bednenko *et al.*, 1997; Albanell *et al.*, 1999; Allsopp *et al.*, 2003

. (Torre *et al.*, 2002)

.(Kim *et al.*, 1994) P³²

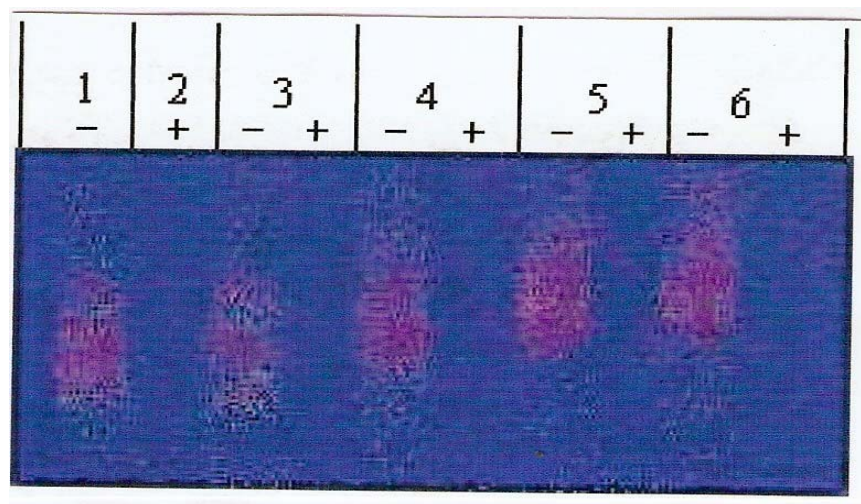
(Wege *et al.*, 2003; Gelmini *et al.*, 1997) PicGreen SYBR Green1

.(Caetano-Anolles & Torgiano, 1984)

.(Yu *et al.*, 2001; Torre *et al.*, 2002)

(1)

.(2) (8)



:(1)

(	%75	85	) (10%)
-	RNase	+	)
		.	(
(Roche		)	:1
(	CHAPS	)	:2
	(1	)	:3
			:4
	(2	)	:5
			:6

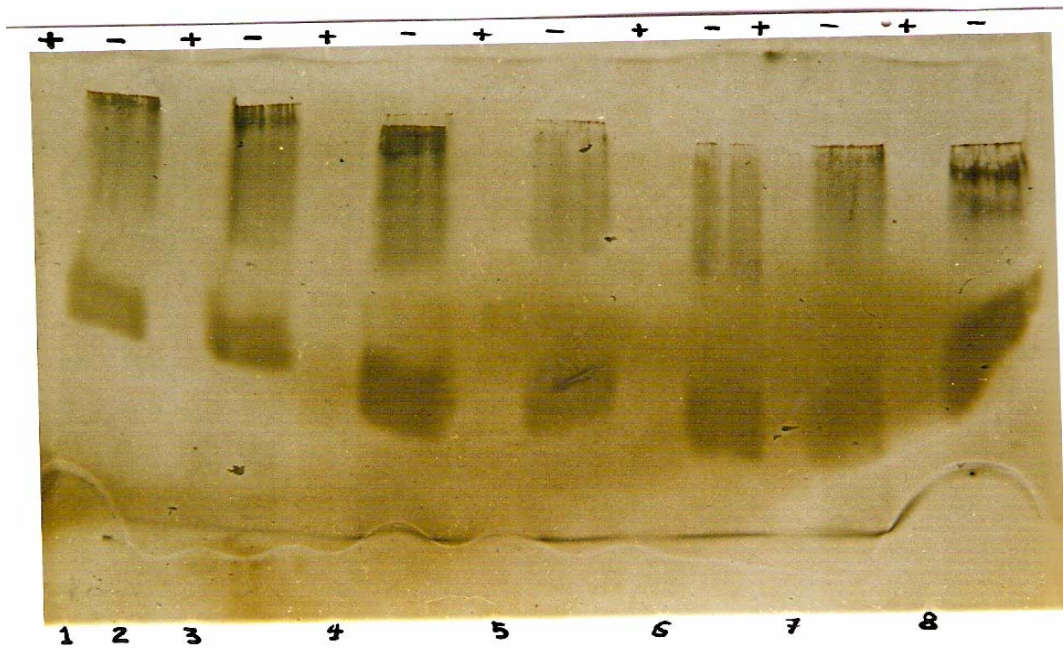
.(Janson, 1998)

.(Leite *et al.*, 2001) ELISA

(MacNamara *et al.*, 2001)

.(Wei *et al.*, 2000)

.(Boldrini *et al.*, 2003; Nozaki *et al.*, 2000)



(2):
(85 (10%))
(%75 - +)
(Roche) :1
(CHAPS) :2
:3
:4
:5
:6
(1) :7
(2) :8

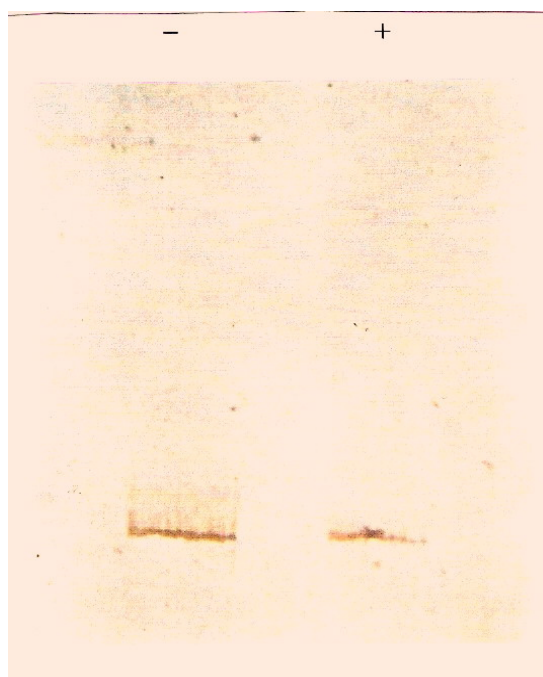
false positive results (7)

(3).

(3)

ELISA

Krupp primer dimer
3' 1998 Falchetti 1997
PCR Taq polymerase P2 P1-TS
(Kim & Wu, 1997)



(3):
(10%)
(75%
RNase
(85
(

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