

zshoja@razi.tums.ac.ir :

()
WHO (Polio free)

Acute Flaccid Paralysis (AFP)

()
(AFP () AFP
AFP
WHO

AFP

L20 Hep2 RD

(Reverse Transcription-Polymerase Chain Reaction)

RD,L20,Hep2

AFP :

(Neutralization Test)

()

Pan-Ev

RT-PCR

RD

RD

RT-PCR

%

RT-PCR .

AFP

RT-PCR

%

AFP

()

()

:

-

,

,

,

:

Pallenseh)

(et al. 2001; Schweighardt et al. 2001

CNS

(Rotbart et al. 2000)

(Retrograde axonal flow)

CNS

(CNS)

% /

(Pallenseh et al. 2001)

(Pallenseh et al. 2001)

Pallenseh et al. 2001; Schweighardt et al.)
(2001

Pallenseh et al.)
(2001

(Dowdle et al. 2003)

(Minor viremia)

)
CNS . (

CNS

AFP

(Major viremia)

PBS

AFP :
RD,L20,Hep2
()
(Gold Standard)
(invert)
(CPE)
)
() (A
Rotbart et al. 2000; Santos)
(et al. 2003

: NT
TCID50
CPE
RT-PCR
% %
NT
RNA.
RT-PCR
RNA (Rotbart et al. 2000; Santos et al. 2002)
RT-PCR
AFP
IgG
:
AFP

(RD) IgG

Pan-En RT-PCR

Pan- : RT-PCR

Polio (Extraction) AFP

Pan-En

(% /) RT-PCR ()

RT-PCR

() (%)

() Pan-Polio

AFP

(WHO 2004) (RD,L20,Hep2)

AFP ,AFP

AFP (Hep2,RD,L20)

AFP RD

() Hep2 L20

AFP RD

L20 Hep2

AFP ()

) AFP (

Hep2, L20, RD : RT-PCR

(% /) (Extraction)

RD Pan-En RT-PCR

(%)

(Reynolds et al. 2001)

L20 Hep2 ,RD

AFP

L20

%

AFP

(Santos et al. 2002)

RT-PCR

AFP

RT-PCR

AFP

A

Nadkarni)

(RD)

(et al. 2003)

RD

L20

(% /)

RT-PCR

RT-

(% /)

L20 RD

Hep2

(%)

PCR

RT-PCR

Hep2

RT-PCR

RT-PCR

%

Rotbart et al.1997; Romero)

(1999; Santos et al. 2002

RD

(WHO)

RT-PCR

L20

% /

Hep2 RD

L20 RD

RT-PCR

Gold

Standard

:

(Landry et al. 2003; Kessler et al. 1997)

Santos) A
et al. 2002; Ishiko et al. 2002; landry et al.
(Inhibitors) (2003

, NT

RT-PCR

PCR

()

Pan-Ev

Freeze-thaw

Landry et al.)

(2003; Kessler et al. 1997

AFP

RT-

RT-

%

PCR

Pan-Ev

PCR

AFP

Pan-polio

()

RT-PCR

Chaves et al. 2001; Solomon et al. 2003;)

(Grimwood et al. 2003

RT-PCR

AFP

()

AFP

Hep2 RD

RT-PCR

Pan-Enterovirus (PanEV)	5'-ACACGGACACCCAAAGTAGTCGGTTC-3' 5'- TCCGGCCCCTGAATGCGGCTAATCC-3'	114 base pairs
Pan-Poliovirus (Pan PV)	5'-TTIAIIGCRTGICCRTRTT-3' 5'-CITAITCIMGITTYGAYATG-3'	79 base pairs

Chomczynski 1987; WHO Manual

Hep2 L20 RD

Hep2 L20 RD

() AFP

RT-PCR

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RT-PCR

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