

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)

: NT

.(et al. 2003

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

Gold

RT-PCR

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-

Pan-Ev

PCR

%

PCR

Pan-polio

AFP

()

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'- TCCGGCCCCCTGAATGCGGCTAATCC-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

/

/

RT-PCR

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