SinaClon
شرکت سیناکلون BioScience

Epstein-Barr Virus PCR Detection kit

REF **PK3151** Σ **50 TESTS**

Wet or dry Ice **RUO**

Store at: -20°C

Components

Contents	Amounts
EBV PCR MIX	1000µl
Taq DNA polymerase (5u/µl)	10µl
Positive DNA Control	100µl
DNase Free Deionized Water	1ml

Description

This kit is designed for qualitative detection of EBV DNA in infected samples by the method of Polymerase Chain Reaction. The reagent of ready to use mix is an optimized 1X PCR mixture of Taq DNA Polymerase (recombinant), PCR buffer, $MgCl_2$, dNTPs and primers. Primer set is specific to the highly specific repetitive region of *BLLF1* gene. This primer set, allows for detection of 30 copies of *Epstein Barr virus.*

A. DNA Extraction

You can use SinaClon Viral Extraction Kit (DNA & RNA Virus Extraction, Cat No.: EX6065) or DNP™ Kit (Cat No.: EX6071).

B. PCR Protocol

1. Take out the kit and let it to be thawed on ice.
2. Label the PCR tubes as **positive**, **negative** control and **test** (Patient sample).
3. Add 19.8µl EBV PCR Mix to each tube on ice (Mix & spin before use).
4. Add 0.2µl Taq DNA Polymerase to each tube on ice.
5. Close reaction tubes or place on tray and reaction tubes in a resealable plastic bag and seal the bag securely. Transfer tubes to Extraction Area.
6. Add 5µl DNA (Use specified pipette for sampling of DNA) to each patient's sample tube and 5µl Positive DNA Control to **positive** tube and DNase Free Deionized Water to **negative** tube (The final volume of each reaction will be 25µl).
7. Close tubes, spin the mixture on microfuge 3-5 sec. and transfer the tubes to preheated thermocycler and start the following program:

Cycling parameters		
First 94°C – 300 Sec **1 cycle**	**Then** 93°C-30 Sec 59°C- 30 Sec 72°C -30 Sec **33 cycles**	**Final** **72°C – 300 Sec** **1 cycle**

Cycling parameters may need to be setup with some Thermocyclers.

D. Result Analysis

Analyze amplified fragments by loading of 10µl PCR product on 2% agarose gel directly without adding loading buffer. The presence of 239bp or 256bp fragments indicates positive test.

For gel electrophoresis use of **100bp Ladder** (Cat. No: SL7031) is recommended.

Signs

Signs	Definitions
RUO	For Research Use Only
	Name and address of the manufacturer of the product
REF	Product technical code
	Product shipping conditions

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