

## NOVEL INFLUENZA A H1N1 (plasmid) DNA CONTROL

**MBC081:** Purified DNA of two clones from influenza A virus nH1N1; one of them contains the whole gen of hemagglutinin (1701 bp) and the other contains the whole gen of neuraminidase (1410 bp).

### LOT SPECIFICATIONS:

**Microorganism:** A mixture of the two clones with the whole sequence of hemagglutinin and neuraminidase.

**Preparation:** Plasmid extraction from both bacterial clones.

### COMPONENTS:

1 vial with lyophilized DNA from both clones with the whole sequence of hemagglutinin and neuraminidase from influenza A virus nH1N1 ( $1 \times 10^4$ - $1.5 \times 10^4$  copies/ $\mu$ l once reconstituted).

### TECHNICAL DATA:

**Presentation:** Lyophilized.

### Instructions for reconstitution:

#### DNA:

- 1.-Centrifuge the lyophilized DNA for 1 minute at 1000 g.
- 2.-Add 100  $\mu$ l of sterile bidistilled water and mix until completely reconstituted. The concentration will be  $1 \times 10^4$ - $1.5 \times 10^4$  copies/ $\mu$ l once reconstituted for each plasmid.
- 3.-Shake with vortex for 30 seconds to dissolve and homogenize completely.

**Plasmid preparation:** Culture in *E. coli* and purification by a commercial plasmid extraction kit.

### Shipping and storage:

Special transport conditions not required. Reconstitute upon receipt. Store between  $-5^\circ\text{C}$  and  $-40^\circ\text{C}$  after reconstitution.

The DNA solution should be aliquoted in order to avoid repeated freezing and thawing.

By following the instructions for use, the product is stable until the expiry date stated on the labels.

### Recommendations and precautions:

This product is not for diagnostic use.

This product is for research use only.

This lot of DNA was prepared from influenza A virus nH1N1 hemagglutinin and neuraminidase genes. The material should be handled and disposed of as potentially infectious. Observe the local regulations for clinical waste disposal.

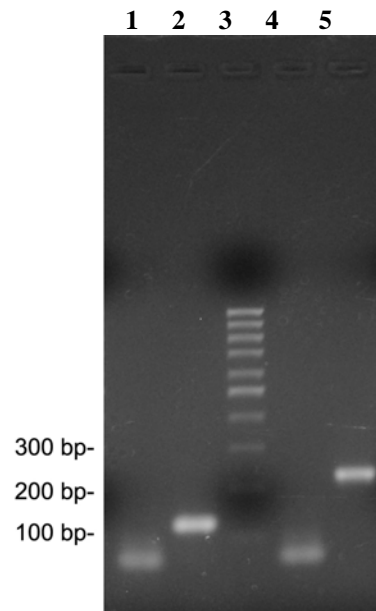
Nucleic acids should not be repeatedly frozed and thawed. It is recommended to reconstitute and aliquote the control upon reception.

The dilutions should be done just before use. Frozen of dilutions containing less than 1000 copies/ $\mu$ l is not recommended as copy numbers can be lose.

### FOR INFORMATION USE ONLY

Not to be used for performing the assay. Refer to the insert accompanying the kit.

**PCR analysis of DNA control:** PCR analysis was performed with specific oligo pairs for influenza A virus nH1N1 hemagglutinin and neuraminidase genes. The result was visualized on 2% agarose gel using ethidium bromide staining. The recommended oligos by the "Centers for disease Control and Prevention" (CDC) were used for the specific amplification of a fragment of 116 bp from the hemagglutinin gene. For the amplification of the gene of neuraminidase was used oligos designed "in house", obtaining a specific fragment of 212 bp. The gel photograph is shown below:



Line	Sample
1	Hemagglutinin gene negative control
2	116 bp amplified hemagglutinin gene fragment
3	Molecular size marker
4	Neuraminidase gene negative control
5	212 bp amplified neuraminidase gene fragment

For inquiries please contact:  
customerservice@vircell.com

**REVISED: 07/2009**

### FOR RESEARCH USE ONLY

Manufacturer: VIRCELL, S.L. Pza. Dominguez Ortiz 1. Polígono Industrial Dos de Octubre. 18320 Santa Fe \*GRANADA\* SPAIN\* Tel.+34.958.441264\* Fax+34.958.510712  
<http://www.vircell.com>