

## PRODUCT: BacPAK™ Baculovirus Expression System Components

**CATALOG No.** 631413  
(not sold separately)

**LOT NUMBER:** 8100808A

### STORAGE CONDITIONS

- Store Box 1 at 4°C.
- Store Box 2 at -20°C.

### SHELF LIFE

Specified on product label.

### SHIPPING CONDITIONS

- Box 1: Blue ice (4°C)
- Box 2: Dry ice (-70°C)

**DESCRIPTION:** Components of the BacPAK Baculovirus Expression System. The BacPAK System uses the baculovirus *Autographa californica* nuclear polyhedrosis virus (Ac-MNPV) to produce target proteins in insect cells. The target gene is inserted into a shuttle vector, which is cotransfected into insect host cells with the linearized BacPAK6 Viral DNA. The specially designed BacPAK6 Viral DNA forces recombination between the virus and transfer vector, resulting in high recombination efficiency. The following components are sufficient for 5 high efficiency transfections.

### PACKAGE CONTENTS

#### Box 1:

- 25 µl BacPAK6 viral DNA  
(*Bsu*36 I digest; 20 ng/µl)
- 25 µl Bacfectin
- 2 ml BacPAK6 virus stock (positive control)

#### Box 2:

- 15 µg pBacPAK8 (transfer vector)
- 15 µg pBacPAK9 (transfer vector)
- 2.5 µg pBacPAK8-GUS  
(positive control transfer vector)
- 2.5 µg Bac1 Primer
- 2.5 µg Bac2 Primer

### FOR RESEARCH USE ONLY

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### QUALITY CONTROL DATA

See back of page.

APPROVED BY: \_\_\_\_\_



**QUALITY CONTROL DATA****A. BacPAK6 DNA**

BacPAK6 viral DNA (Bsu36 I digest) and pBacPAK8-GUS (a transfer vector containing the  $\beta$ -glucuronidase gene) were cotransfected into IPLB-Sf21 cells following the recommended protocol. Progeny viruses were plaque assayed (1) with the addition of X-Gluc (a chromogenic substrate for  $\beta$ -glucuronidase), to identify recombinant viruses, and in parallel with X-Gal to identify viruses generated from incompletely digested pBacPAK6 DNA.

The percentage of blue plaques resulting from addition of X-Gluc was: 70%. This is an underrepresentation of the actual percentage of viruses that have undergone the correct recombination, as blue color is extremely difficult to detect in smaller plaques.

The percentage of blue plaques resulting from addition of X-Gal was: 0%.

**B. BacPAK6 Virus Stock**

Virus titer as determined by infecting monolayers of IPLB-Sf21 cells: 0.916 x 10<sup>8</sup> IFU/ml

**REFERENCE**

1. Brown, M. & Faulkner, P. (1977) *J Gen. Virol.* **36**:361–364.

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