Certificate of Analysis

PRODUCT: BacPAK™ Baculovirus Expression System Components

CATALOG No. 631413
(not sold separately)

LOT NUMBER
Specified on product label.

STORAGE CONDITIONS
- Store Box 1 at 4°C.
- Store Box 2 at –20°C.

SHELF LIFE
1 year from date of receipt under proper storage conditions.

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

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

PRODUCT USER MANUALS:
User manuals for Clontech products are available for download at **www.clontech.com/manuals**. The following user manuals apply to this product:

- BacPAK Baculovirus Expression System User Manual (PT1260-1)
- BacPAK Baculovirus Expression System Protocol-at-a-Glance (PT1260-2)
- pBacPAK8 & pBacPAK9 Vector Information Packets (PT1262-5 & PT1263-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

See back of page.

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QUALITY CONTROL DATA

BacPAK6 DNA

BacPAK6 viral DNA (Bsu36 I digest) and pBacPAK8-GUS (a transfer vector containing the β-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 β-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% of the total plaques. 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 ≤1% of those observed for X-Gluc for the recombinant virus.

REFERENCE

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