

## Certificate of Analysis

<b>Product:</b>	BacPAK6
<b>Components:</b>	BacPAK6 Linearised Baculovirus DNA
<b>BacPAK6 lot number:</b>	#1 210414 Date of testing 21/4/2014
<b>Storage:</b>	Store BacPAK6 DNA at 4°C. It is guaranteed to remain stable for at least 6 months from the date of shipment when stored as directed.

### Test Conditions:

Analysis	BacPAK6 DNA	Virus
DNA purification analysis <sup>1</sup>	Y	
DNA quantity & purity analysis <sup>2</sup>	Y	
DNA digestion analysis <sup>3</sup>	Y	
DNA co-transfection analysis <sup>4</sup>	Y	Y
Virus titration analysis <sup>5</sup>		Y
Virus amplification analysis <sup>6</sup>		Y
DNA sterility analysis <sup>7</sup>	Y	

1. Integrity of DNA following purification on CsCl gradients was monitored and recorded.
2. Final DNA quantity and purity were confirmed using a spectrophotometer ( $A_{260nm}/A_{280nm}$ ). The ratio was between 1.7 and 1.9.
3. Quantity, purity and integrity of DNA were confirmed by restriction enzyme digestion and separation on a 0.6% agarose gel (see Figure 1). Over 50% of DNA was supercoiled (Figure 1, Lane 3).
4. Co-transfections were carried out in triplicate using BacPAK6 Linearised DNA and transfer vector DNA containing foreign gene.
5. Co-transfections were titrated by plaque assay and found to be greater than  $1 \times 10^5$  pfu/ml. After 5 days the infected cells were stained with X-gal and blue colouration was observed indicating  $\beta$ -galactosidase expression. White plaques were selected for amplification.
6. Picked plaques were amplified to P1 stocks and titrated by QPCR and found to be greater than  $5 \times 10^7$  pfu/ml.
7. Sterility checks were carried out at 27°C and 37°C.

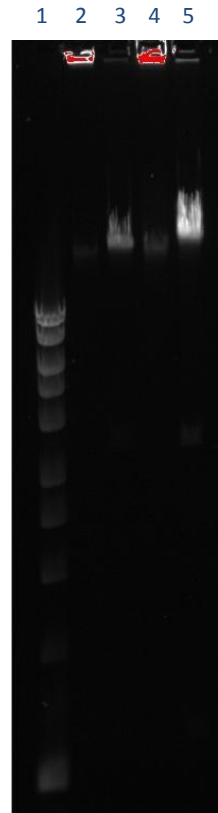


Figure 1. 0.6% agarose gel showing restriction enzyme analysis of BacPAK6 DNA. Lane 1 shows Hyperladder, lane 2 shows #819 uncut (100ng), lane 3 shows #819 + Bsu36I (100ng), lane 4 shows #819 uncut (300ng), lane 5 shows #819 + Bsu36I (300ng).