

Certificate of Analysis

Product:	<i>flashBAC</i>
Components:	<i>flashBAC</i> Baculovirus DNA
FlashBAC lot number:	#12-201101 Date of testing Jan 2011
Storage:	Store <i>flashBAC</i> 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	<i>flashBAC</i> DNA	Virus
DNA purification analysis ¹	Y	
DNA quantity & purity analysis ²	Y	
DNA digestion analysis ³	Y	
DNA co-transfection analysis ⁴	Y	Y
Virus titration analysis ⁵		Y
Virus amplification analysis ⁶		Y
DNA sterility analysis ⁷	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 ($A_{260\text{nm}}/A_{280\text{nm}}$). 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 0.7% agarose gel (see Figure 1). Over 50% of DNA was supercoiled (Figure 1, Lane 3).
4. Co-transfections were carried out in triplicate using *flashBAC* DNA and transfer vector DNA containing foreign gene.
5. Co-transfections were titrated by plaque assay and found to be greater than 1×10^5 pfu/ml. After 5 days the infected cells were stained with X-gal and blue colouration was observed indicating β -galactosidase expression. White plaques were selected for amplification.
6. Co-transfections were amplified to P1 stocks and titrated by QPCR and found to be greater than 5×10^7 pfu/ml.
7. Sterility checks were carried out at 27°C and 37°C.

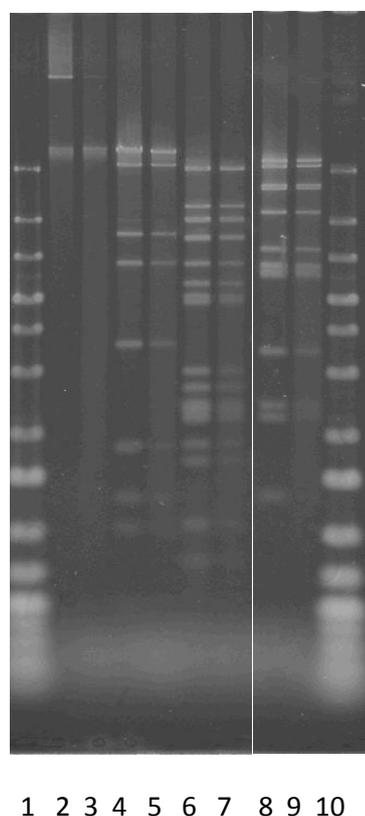


Figure 1. 0.7% agarose gel showing restriction enzyme analysis of parental *flashBAC* DNA vs batch #12 *flashBAC* DNA. Lane 1 and 10 shows 10 kbp 2-log ladder (NEB), lane 2 shows uncut #12-201101 (100ng), lane 3 shows uncut parental *flashBAC* DNA (100ng). lane 4, 6, 8 show #12-201101 DNA vs parental *flashBAC* DNA in lanes 5, 7, 9 digested with *Bam*HI, *Hind*III and *Eco*RI, respectively.