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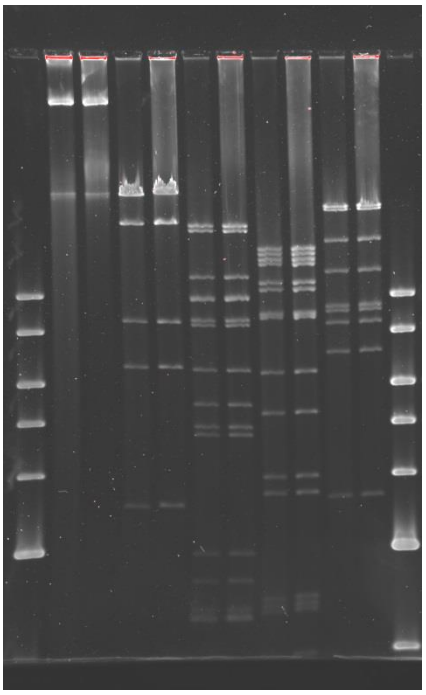
Certificate of Analysis

Product:	*flash*BACULTRA
Components:	*flash*BAC ULTRA Baculovirus DNA
FlashBAC ULTRA lot number:	#6-201406 Date of testing June 2014
Storage:	Store *flash*BAC ULTRA 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	*flash*BACULTRA 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_{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 0.7% 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 ß-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.



1 2 3 4 5 6 7 8 9 10 11 12

Figure 1. 0.7% agarose gel showing restriction enzyme analysis of parental DNA vs batch #6-201406 *flash*BACGULTRA DNA. Lanes 1 and 12 shows 10 kbp 2-log ladder (NEB), lane 2 shows uncut parental DNA (100ng), lane 3 shows uncut #6-201406 DNA (100ng). lane 4, 6, 8, 10 show parental DNA vs #6-201406 *flash*BACULTRA DNA in lanes 5, 7, 9,11 digested with *Bam*HI, *Hin*dIII, *Eco*RI & *Xba*I, respectively.