

Vaccinia Virus Nucleic Acid Panel

Catalog No. NR-12313

Product Description: The panel consists of nucleic acids extracted from seven vaccinia viruses. The viral genomic DNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70002370

NR-2634, Lot 62153956¹ (Vaccinia Virus, Modified Vaccinia Ankara (MVA); Manufactured 06NOV2013)

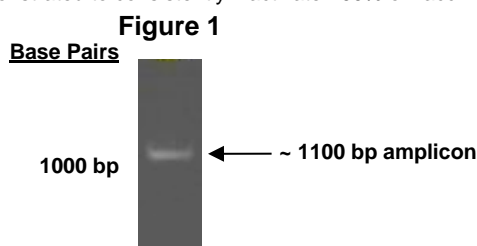
TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 1)
Total DNA Content by PicoGreen [®] Measurement (Viral, Cellular and Carrier)	Report results	9.4 ng per 100 µL
Virus Inactivation 10% of total yield incubated on Vero cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

¹Nucleic acid was extracted from a preparation of Vaccinia Virus, MVA (BEI Resources NR-1, lot 7704329) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Amplified using iTaq[™] DNA Polymerase (BioRad 170-8870) with 5 µL of NR-2634 in a 50 µL reaction

³Vero cells: ATCC[®] CCL-81[™]; 11 days at 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.



NR-2635, Lot 61957621¹ (Vaccinia Virus, Lister (Elstree); Manufactured 21AUG2013)

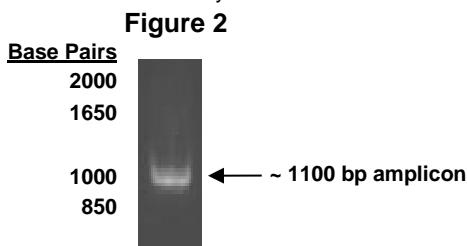
TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 2)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	71 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

¹Nucleic acid was extracted from a preparation of Vaccinia Virus, Lister (Elstree) (BEI Resources NR-51, Lot 3579602) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Amplified using iTaq[™] DNA Polymerase (Bio-Rad 10966-026) with 5 µL of NR-2635 in a 50 µL reaction

³Vero cells: ATCC[®] CCL-81[™]; 7 days at 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.



NR-2636, Lot 5100720¹ (Vaccinia Virus, IHD; Manufactured 25FEB2006)

TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 2600 bp amplicon	~ 2600 bp amplicon (Figure 3)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	34 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero E6 cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected
Sodium Azide Content	Report results	0.0013%

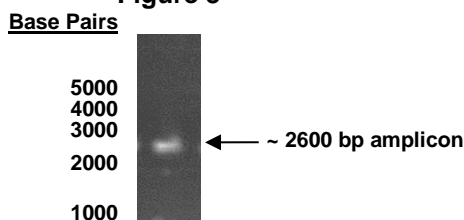
¹Nucleic acid was extracted from a preparation of Vaccinia Virus, IHD (BEI Resources NR-52) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Using TITANIUM[™] Taq PCR Kit (Clontech 639210)

³Vero E6 cells: ATCC[®] CRL-1586[™]; 7 days 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.

Figure 3



NR-2637, Lot 5075333¹ (Vaccinia Virus, Lederle-Chorioallantoic; Manufactured 25FEB2006)

TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 2600 bp amplicon	~ 2600 bp amplicon (Figure 4)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	29 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero E6 cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected
Sodium Azide Content	Report results	0.00028%

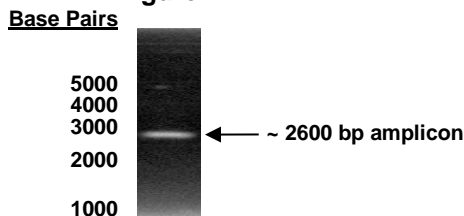
¹Nucleic acid was extracted from a preparation of Vaccinia Virus, Lederle-Chorioallantoic (BEI Resources NR-53) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Using TITANIUM[™] Taq PCR Kit (Clontech 639210)

³Vero E6 cells: ATCC[®] CRL-1586[™]; 7 days 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.

Figure 4



NR-2638, Lot 5075334¹ (Vaccinia Virus, NYCBH (Wyeth, calf-adapted); Manufactured 17FEB2006)

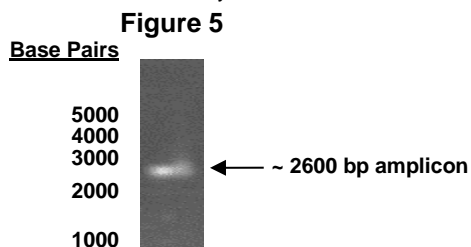
TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 2600 bp amplicon	~ 2600 bp amplicon (Figure 5)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	26 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero E6 cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected
Sodium Azide Content	Report results	0.0003%

¹Nucleic acid was extracted from a preparation of Vaccinia Virus, NYCBH (Wyeth, calf-adapted) (BEI Resources NR-54) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Using TITANIUM[™] Taq PCR Kit (Clontech 639210)

³Vero E6 cells: ATCC[®] CRL-1586[™]; 7 days 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.



NR-2639, Lot 61957662¹ (Vaccinia Virus, Western Reserve (NIAID, Tissue culture-adapted); Manufactured 15AUG2015)

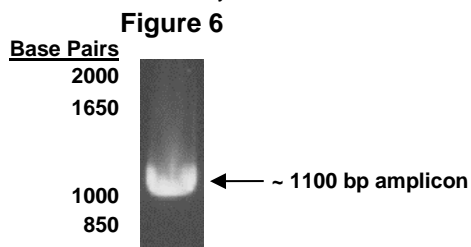
TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 6)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	55 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

¹Nucleic acid was extracted from a preparation of Vaccinia Virus, Western Reserve (NIAID, Tissue culture adapted) (BEI Resources NR-55, Lot 3579605) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Amplified using iTaq[™] DNA Polymerase (Bio-Rad 10966-026) with 5 µL of NR-2639 in a 50 µL reaction

³Vero cells: ATCC[®] CCL-81[™]; 7 days 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.



NR-2640, Lot 60981371¹ (Vaccinia Virus, Western Reserve (Mouse adapted); Manufactured 19AUG2015)

TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification ²	~1100 bp amplicon	~ 1100 bp amplicon (Figure 7)
Total DNA Content by PicoGreen [®] Measurement (Viral and Cellular)	Report results	4.9 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero cells ³ and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

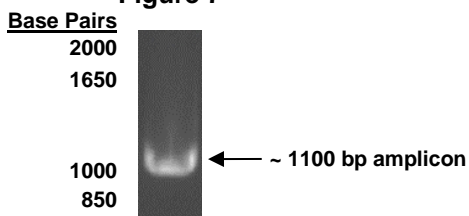
¹Nucleic acid was extracted from a preparation of Vaccinia Virus, Western Reserve (Mouse adapted) (BEI Resources NR-56, Lot 3579606) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

²Amplified using iTaq[™] DNA Polymerase (Bio-Rad 10966-026) with 5 µL of NR-2640 in a 50 µL reaction

³Vero cells: ATCC[®] CCL-81[™]; 7 days 37°C and 5% CO₂ with media overlay

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of vaccinia virus.

Figure 7



Date: 14 FEB 2017

Signature: *Michael R. Gynther*
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