

Genomic RNA from Usutu Virus, SAAR 1776

Catalog No. NR-51219

Product Description:

Genomic RNA was extracted from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with Usutu virus (USUV), SAAR 1776.¹ USUV, SAAR 1776 was isolated in 1959 from a mosquito (*Culex univittatus*) in Ndumo, Natal, South Africa.

Lot: 70021062²

Manufacturing Date: 21JAN2019

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 980 nucleotides)	≥ 98% identity with USUV, SAAR 1776 complete genome (GenBank: AY453412)	99.5% identity with USUV, SAAR 1776 complete genome (GenBank: AY453412)
Functional Activity by RT-PCR Amplification³ NS3-NS4 gene	~ 1100 base pair amplicon	~ 1100 base pair amplicon
Pre-Vial Concentration by RiboGreen[®] Measurement (Viral, Cellular and Carrier)⁴	Report results	3.9 ng per 100 µL (0.04 µg/mL)
Estimated Amount per Vial⁴	Report Results	3.9 ng
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect after serial passage ^{1,5}	No viable virus detected	No viable virus detected

¹Vero cells: ATCC[®] CCL-81™

²Nucleic acid was extracted from a preparation of USUV, SAAR 1776 (BEI Resources NR-51184 lot 70014388), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Amplified using 5 µL of NR-51219 in a 50 µL reaction

⁴Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁵Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate flaviviruses as shown by the absence of cytopathic effect (CPE) and viral RNA expression by RT-PCR after plating the entire extract on virus-susceptible cells for two passages.

/Heather Couch/
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16 SEP 2019

Program Manager or designee, ATCC Federal Solutions

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