

Genomic RNA from Middle East Respiratory Syndrome-Related Coronavirus, Isolate Hu/Riyadh-KSA-18013832/2018

Catalog No. NR-59927

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from human colorectal adenocarcinoma cells (Caco-2; ATCC® HTB-37™) infected with Middle East respiratory syndrome-related coronavirus (MERS-CoV), isolate Hu/Riyadh-KSA-18013832/2018 (BEI Resources NR-59607 lot 70070751) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70071796

Manufacturing Date: 01JUL2026

TEST	SPECIFICATIONS	RESULTS
Next-Generation Sequencing (NGS) of Complete Genome¹	≥ 98% sequence identity with MERS-CoV, isolate Hu/Riyadh-KSA-18013832/2018 (GenBank: MK462253)	99.98% sequence identity with MERS-CoV, isolate Hu/Riyadh-KSA-18013832/2018 (GenBank: MK462253)
Functional Activity by RT-PCR Amplification² ORF1ab gene	~ 1330 base pair amplicon	~ 1330 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)³	Report results	0.5 ng per 100 µL (0.005 µg/mL)
Estimated Amount per Vial³	Report results	0.5 ng
Genome Copy Number Using Digital-Based PCR (Post vial; 6 replicates)	Report results	1.1 × 10 ⁷ NDU per mL ⁴
Virus Inactivation 10% of total yield inoculated on Caco-2 cells and evaluated for cytopathic effect and by qPCR after serial passage ⁵	No viable virus detected	No viable virus detected

¹NGS performed on source virus

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59927 in a 50 µL reaction

³Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁴NDU; NAAT-detectable units

⁵Use of the QIAamp® Viral RNA Mini Kit (Qiagen catalog no. 52906) has been demonstrated to consistently inactivate 100% of MERS-CoV as shown by the absence of cytopathic effect (CPE) and viral RNA expression by qPCR after plating the entire extract on virus-susceptible cells for two passages.

/Sonia Bjorun Brower/
Sonia Bjorun Brower

13 AUG 2026

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

