

SAFETY DATA SHEET

Relevant Products

#C1110G Pseudo SARS-CoV-2 mNeon Green
#C1110R Pseudo SARS-CoV-2 Red

#C1120G Pseudo SARS-CoV-2 D614G mNeon Green
#C1120R Pseudo SARS-CoV-2 D614G Red

Materials Included

- Pseudo SARS-CoV-2 D614G BacMam vector: $\sim 2 \times 10^{10}$ VG/mL in TNM-FH Insect Culture Medium (Allele Biotech product #ABP-MED-10001).

BacMam pseudo typed with the SARS-CoV-2 Spike protein or the D614G mutant. Depending on the kit, green or red fluorescence is targeted to the host cell nuclei.

- mNeon Green BacMam Negative Control in TNM-FH Insect Culture Medium (Allele Biotech product #ABP-MED-10001).

BacMam devoid of Spike or VSVG pseudotyping to assess basal levels of BacMam viral entry.

- Sodium Butyrate (Sigma Aldrich product # B5887) 500 mM in H₂O.

Add Sodium Butyrate to the culture to maintain BacMam expression. Other HDAC inhibitors may work as well or even better in certain cell types.

Storage

BacMam vectors and HDAC Inhibitors should be stored at 4°C and protected from light in the original package. Avoid repeated freeze/thaw cycles. We recommend retesting BacMam stock after storing for more than 12 months at 4°C, or after any freeze-thaw cycle.

QA/QC

BacMam stocks are tested for sterility. Samples are added to rich cell culture media without antibiotic and incubated at 37°C, 5% CO₂, and checked for bacterial or fungal growth after 5 days. Viral genes (VG) per milliliter (mL) are measured by qPCR with primers specific to SARS-CoV-2 Spike. Check tube label for exact titer. Viral genomic DNA at multiple dilutions are run in qPCR against a standard curve to generate an average titer for each BacMam stock. Each tube of stock is labeled with VG/mL and a stock keeping unit (SKU) identifier. To test efficacy, serial dilutions are added to cultured HEK 293 cells. After 24 hours, fluorescent cells are counted to establish transducing units per mL of stock.

Biosafety

BacMam is the modified baculovirus, *Autographa californica*, AcMNPV. Baculovirus is pseudotyped to infect mammalian cells carrying ACE2 and TMPRSS2, but it does not replicate and its genome is silent in mammalian cells. While it should be handled carefully, in a sterile environment, it is classified as a BSL 1 reagent.

For Research Use Only. Not recommended for use or sale in human or animal diagnostic or therapeutic products. This product contains no substances which at their given concentration are considered to be hazardous to health, however we recommend handling with care. Wear impervious gloves and eye protection when handling. Do not ingest.

Review the protocols on Montana Molecular's Website: www.montanamolecular.com before using these products.

Materials are provided without warranty, express or implied. End user is responsible for making sure product use complies with applicable regulations. No right to resell any components of these products is conveyed. Reverse engineering or modification of these products is not permitted.

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