Measles-eGFP-hNIS



Product Description

Product Name: Measles-eGFP-hNIS

(Standard Titer, 0.25 mL)

Catalog Number: OV1009 Lot Number: OV-MA12

Shipping conditions: Dry ice

Storage conditions: Store at ≤ -70°C upon receipt, avoid

subjecting to multiple freeze-thaw cycles

Species: Measles
Virus strain: Edmonston

Transgene: Enhance green fluorescent protein (eGFP)

Human sodium iodide symporter (hNIS)

Production Cell Line: Vero

Storage Media: Serum-free media

Propagation: Inoculate producer cells (e.g. Vero cells) at an

MOI of 0.02 for 2-3 hours. Harvest virusassociated cells when >80-90% of the cell monolayer has formed syncytia. Lyse by 2X freeze-thaw cycles in liquid nitrogen. Remove

cell debris by centrifugation.

Measles-eGFP-hNIS is a recombinant of the live attenuated Edmonston strain of measles virus. The enhanced green fluorescent protein (eGFP) and human sodium iodide symporter (hNIS) cDNAs are inserted as additional transcription units upstream of the nucleocapsid (N) gene and downstream of the hemagglutinin (H) gene, respectively (see diagram below). The purchased virus is ready for use in cell killing assays or may be amplified to generate additional virus stocks.

Genome:



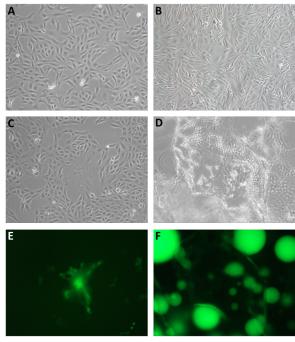
References:

Li et al. Cancer Gene Therapy (2010), 17(8): 550-558. Takeda et al. Journal of Virology (2005), 79(22): 14346–14354.

Certificate of Analysis

Test description	Result
Titer (on Vero)	2.66 x10 ⁶ TCID ₅₀ units/mL
Sterility	Pass QC
Cytopathic Effect	Pass QC
Endotoxin Test	Pass QC
Fluorescence expression	Pass QC
NIS Expression	Pass QC

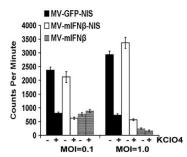
Infectivity:



A & B: mock-infected cells at 24 (A) and 48 (B) h.p.i. **C-F:** Measles-eGFP-hNIS-infected Vero cells (MOI 0.5) at 24 (C & E) and 48 (D & F) h.p.i.

NIS Expression:

Confirmation of hNIS activity in infected cells performed by Li et al. (see reference).



¹²⁵I uptake: human mesothelioma H513 cells were infected (MOI of 0.1 or 1) with the indicated measles viruses and 48 hours later uptake of ¹²⁵I was assayed in the presence or absence of KClO₄, a specific inhibitor of NISmediated ¹²⁵I uptake.

Ref: Li et al. Cancer Gene Therapy (2010), 17(8): 550-558. Figure 3A.

Quality Control by: LS Quality Assurance by: RLV Effective Date: 21-Aug-2017

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