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Infecting Cells with SeV or RSV in A549 or LLCMK2 cells V.1

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Carolina Lopez¹

¹Washington University



Carolina Lopez

Washington University





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working

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Abstract

Infection of SeV or RSV in A549 or LLCMK2 cells



Materials

INFECTION MEDIUM – SeV: Filter through 0.2 µm filter

Component	Amount	Conc. Supp.	Product information
DMEM	500 mL		Gibco Cat. # 11965092 (#11965118-cs)
Pen/Strep	5.0 mL	100 U/mL Pen and 100 µg/mL Strep	Gibco Cat # 15140-122 - 10,000 U/mL
BSA 35%	5.0 mL	0.35%	Sigma Aldrich Cat #A7979 – 35%
Sodium Bicarbona te (NaHCO3) 7.5%	12 mL	0.18%	Gibco Cat #25080094 - 7.5%

TRYPSIN - TPCK (Worthington Biochemicals code: TRLVMF cat.no. LS004454)

INFECTION MEDIUM - RSV: Filter through 0.2 µm filter

Component	Amount	Conc. Supp.	Product information
DMEM	500 mL		Gibco Cat. # 11965092 (#11965118-cs)
Gentamicin	500 µL	50μg/mL	Gibco Cat #15750060 (#15750078-pk) - 50 mg/mL
Sodium Pyruv ate	5.0 mL	1mM	Corning Cat #25-000-Cl - 100mM
L-Glutamine	5.5 mL	2 mM	Sigma Aldrich Cat #G7513 - 200mM
FBS	10 mL	2%	



Infecting Cells with SeV or RSV in A549 or LLCMK2 cells

1 Infecting cells with SeV or RSV in A549 or LLCMK2 cells

- 1. Prepare a virus dilution in infection media with the correct virus-specific media (see materials section for media composition).
- Calculate the volume of virus needed (X) using the MOI formula: (MOI*cell number)/Virus titer = X
- The amount of infection media used to prepare the virus will depend on the size of the well or plate used - it is best to use the minimal volume needed to cover the well/plate to help ensure virus particle attachment to cells
- 2. Remove TCM
- 3. Wash cells twice with 1X PBS
- 4. Add XµL of virus suspended in infection media to each well (calculated in step 1)
- 5. Incubate the plate for 1 hr @ 37°C, rocking the plate/flask every 15 minutes
- 6. Remove the media
- 7. Wash twice with 1X PBS
- 8. Add infection media to each well/flask
- For SeV infection: add SeV-Infection media, for SeV infection in LLCMK2 cells: add TRYPSIN -TPCK to the infection media for a final concentration of 2µg/mL TRYPSIN -TPCK
- For RSV infection: add RSV-Infection media (2%FBS)
- 9. Place the plate/flask back in a 37°C, 5% CO₂ incubator