

Materials List for

High-throughput Antiviral Assays to Screen for Inhibitors of Zika Virus Replication

Rafaela S. Fernandes¹, Gabriela D. Noske¹, Victor O. Gawriljuk¹, Ketilyn I. Z. de Oliveira¹, Andre S. Godoy¹, Nathalya C. M. R. Mesquita¹, Glaucius Oliva¹

¹São Carlos Institute of Physics, University of Sao Paulo

Corresponding Author

Glaucius Oliva
oliva@ifsc.usp.br

Citation

Fernandes, R.S., Noske, G.D., Gawriljuk, V.O., de Oliveira, K.I.Z., Godoy, A.S., Mesquita, N.C.M.R., Oliva, G. High-throughput Antiviral Assays to Screen for Inhibitors of Zika Virus Replication. *J. Vis. Exp.* (176), e62422, doi:10.3791/62422 (2021).

Date Published

October 30, 2021

DOI

10.3791/62422

URL

jove.com/video/62422

Materials

Name	Company	Catalog Number	Comments
5'-biotin-U30-ACUUGGAGAU CGAUCUCCAGU -3'	Dharmacon	-	100 ng
96-well cell culture plates	KASVI	K12-096	
96-well PCR Microplate	KASVI	K4-9610	
96-well White Flat Bottom Polystyrene High Bind Microplate	Corning	3922	
AMC (7-amine-4-methylcoumarin)	SIGMA-Aldrich	257370	100 mg
Aprotinin from bovine lung	SIGMA-Aldrich	A1153	10 mg
ATP	JenaBioscience	NU-1010-1G	1 g
Bz-nKRR-AMC	International Peptides	-	5 mg
Class II Biohazard Safety Cabinet	ESCO		
Diethyl pyrocarbonate	SIGMA-Aldrich	D5758	25 mL
DMSO (Dimethyl sulfoxide)	SIGMA-Aldrich	472301	1 L
Dulbecco's Modified Eagle Medium	GIBCO	3760091	
Fetal Bovine Serum	GIBCO	12657-029	500 mL
G418	SIGMA-Aldrich	A1720	Disulfate salt
Glycerol	SIGMA-Aldrich	G5516	1 L
HERACELL VIOS 160i CO2 incubator	Thermo Scientific		
MnCl ₂ tetrahydrate	SIGMA-Aldrich	203734	25 g
MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide)	Invitrogen	M6494	
NITD008 ≥98% (HPLC)	Sigma-Aldrich	SML2409	5 mg
qPCR system Mx3000P	Agilent		
<i>Renilla</i> luciferase Assay System	PROMEGA	E2810	
SpectraMax Gemini EM Fluorescence Reader	Molecular Devices		

SpectraMax i3 Multi-Mode Detection Platform	Molecular Devices		
SpectraMax Plus 384 Absorbance Microplate Reader	Molecular Devices		
SYBR Green I	Invitrogen	S7563	500 μ l
Triton X-100	SIGMA-Aldrich	X100	500 mL
Trizma base	SIGMA-Aldrich	T1503	1 kg
Trypsin-EDTA Solution 1X	SIGMA-Aldrich	59417-C	100 mL