

Materials List for

Rapid *In Vitro* Cytotoxicity Evaluation of Jurkat Expressing Chimeric Antigen Receptor using Fluorescent Imaging

Siddharth Subham^{*1,2,3}, John D. Jeppson^{*1}, Benjamin K. Gibbs⁴, Jacqueline Babai², Riza Alker¹, Andrew K. Godwin^{4,5,6}, David Akhavan^{1,2,3}

¹Department of Radiation Oncology, University of Kansas Cancer Center ²Department of Cancer Biology, University of Kansas Cancer Center

³BioEngineering Program, University of Kansas ⁴Department of Pathology and Laboratory Medicine, University of Kansas Medical Center ⁵University of Kansas Cancer Center ⁶Kansas Institute for Precision Medicine, University of Kansas Medical Center

* These authors contributed equally

Corresponding Author

David Akhavan
dakhavan@kumc.edu

Citation

Subham, S., Jeppson, J.D., Gibbs, B.K., Babai, J., Alker, R., Godwin, A.K., Akhavan, D. Rapid *In Vitro* Cytotoxicity Evaluation of Jurkat Expressing Chimeric Antigen Receptor using Fluorescent Imaging. *J. Vis. Exp.* (200), e65560, doi:10.3791/65560 (2023).

Date Published

October 27, 2023

DOI

10.3791/65560

URL

jove.com/video/65560

Materials

Name	Company	Catalog Number	Comments
15 mL Conical Tube (Sterile)	Midwest Scientific	#C15B	Any similar will work
50 mL Conical Tube (Sterile)	Thermo Scientific	339652	Any similar will work
Black/Clear 96 well plate	Falcon	353219	Celligo has a list of compatible plates
Celigo 4 Channel Imaging Cytometer	Nexcelcom Bioscience	200-BFFL-5C	Any similar will work
Celigo Software	Nexcelcom Bioscience	Version 5.3.0.0	Any similar will work
Cell Culture Incubator	Thermo Scientific	HeraCell 160i	Any similar will work
Cell Culture Treated Flasks (T75, various sizes, Sterile)	TPP	90076	Any similar will work
CFSE	Tonbo	13-0850-U500	Any similar will work
Cytek Muse Cell Analyzer	Cytek	0500-3115	Any similar will work
DMEM	Gibco	11995-040	Any similar will work
FBS	Gemini bio-products	900-108	Any similar will work
Flow Cytometer	Cytek, BD, etc	Aurora, LSR II, etc	Any similar will work
FlowJo Software	Becton Dickinson & Company	Version 10.7.1	Any similar will work
Fluorobrite DMEM	Gibco	A18967-01	Any similar will work
GraphPad Software	GraphPad	Version 9.3.1 (471)	Any similar will work
Multichannel Pipette	Thermo Scientific	Finnpipette F2	Any similar will work
PBS	Gibco	10010-031	Any similar will work
PenStrep	Gibco	15070-063	Any similar will work
Pipette tips (Sterile, filtered, 1 mL, Various sizes)	Pr1ma	PR-1250RK-FL, etc	Any similar will work
Pipettors	Thermo Scientific	Finnpipette F2	Any similar will work

Propidium Iodide	Invitrogen	P1304MP	Any similar will work
RPMI	Corning	10-041-cv	Any similar will work
Serological Pipette Aid	Drummond Scientific	4-000-105	Any similar will work
Serological Pipettes (Sterile, various sizes)	Pr1ma	PR-SERO-25, etc	Any similar will work
Sodium Pyruvate	Corning	25-000-CI	Any similar will work
Sterile Reservoirs	Midwest Scientific	RESE-2000	Any similar will work
Table top centrifuge	Eppendorf	5810R	Any similar will work