

Materials List for

In Vitro and In Vivo Evaluation of Photocontrolled Biologically Active Compounds - Potential Drug Candidates for Cancer Photopharmacology

Kateryna Horbatok^{*1,2}, Tetyana Makhnii^{*2}, Viktoriia Kosach², Volodymyr Danko¹, Andrey Kovalenko¹, Stanislav Fatiushchenkov¹, Petro Borysko², Iryna Pishel², Oleg Babii^{3,4}, Anne S. Ulrich³, Tim Schober⁴, Sergii Afonin³, Igor V. Komarov^{1,2,4}

¹Taras Shevchenko National University of Kyiv

²Bienta/Enamine

³Karlsruhe Institute of Technology

⁴Lumobiotics

*These authors contributed equally

Correspondence to: Tim Schober at tim.schober@lumobiotics.de, Sergii Afonin at sergij.afonin@kit.edu, Igor V. Komarov at ik214@yahoo.com

URL: <https://www.jove.com/video/64902>

DOI: [doi:10.3791/64902](https://doi.org/10.3791/64902)

Materials

Name	Company	Catalog Number	Comments
Agilent 1100 Series capillary LC system	ALSI-Chrom (Agilent distributor)	-	
ATCC CRL-1642, LL/2 (LLC1) Lewis lung carcinoma cell line	ECACC	90020104	
C57BL/6NCrl mice, female, inbred	Charles River	Strain code: 027	
CelCulture, CO ₂ incubator	Esco Micro	CCL-170B	
Corning Matrigel Basement membrane matrix	Merck	CLS354234	
Corning, 384- well spheroid microplates	Merck	CLS3830	
Fetal bovine serum	Merck	F7524	
Gibco, DPBS	Thermo Fisher Scientific	21600044	
Gramicidin S	Lumobiotics		Custom synthesis
HyClone, DMEM/high glucose	Cytiva	SH30003.04	
IN Cell Analyzer 6500HS, imaging system	Cytiva	29240358	
Invitrogen, Calcein AM	Thermo Fisher Scientific	C1430	
Isoflurane anesthesia machine	ASA	S/N ASA 1305	
L-glutamine, 200 mM solution	Merck	G7513	
LIKA-surgeon, diode surgery laser	Fotonika plus	-	
LMB002	Lumobiotics		Custom synthesis
Penicillin–Streptomycin, solution stabilized	Merck	P4333	
PhenoPlate, 96-well plates	PerkinElmer	6055302	
Photometer PCE-LED 20	PCE Instruments	PCE-LED 20	
Thermo Scientific, Hoechst 33342	Thermo Fisher Scientific	62249	
Thermo Scientific, Propidium iodide	Thermo Fisher Scientific	J66764-MC	
Trypan blue, 0.4% solution	Merck	T8154	
Trypsin–EDTA, 10 x solution	Merck	T4174	
UltraCruz Cell culture flasks with vented caps, 75 cm ²	Santa Cruz Biotechnology	sc-200263	

UltraCruz, bottle top filters, PES, 0.22 µm	Santa Cruz Biotechnology	sc-360882	
Vydac 218TP, C18 HPLC column (4.6 mm × 250 mm, 5 µm)	Altmann Analytik (Avantor distributor)	GR5103827	