

Materials List for:

Pre-clinical Evaluation of Tyrosine Kinase Inhibitors for Treatment of Acute Leukemia

Sandra Christoph^{1,2}, Alisa B. Lee-Sherick¹, Susan Sather¹, Deborah DeRyckere¹, Douglas K. Graham¹

¹Department of Pediatrics, University of Colorado Anschutz Medical Campus

²Department of Bone Marrow Transplantation, University Hospital of Essen

Correspondence to: Douglas K. Graham at Doug.Graham@ucdenver.edu

URL: <https://www.jove.com/video/50720>

DOI: [doi:10.3791/50720](https://doi.org/10.3791/50720)

Materials

Name	Company	Catalog Number	Comments
			Reagent/Material
Hydrogen Peroxide	MP Biomedicals	#02194057	GHS05, GHS07, H302-H318
Sodium Orthovanadate	Sigma	#S6508	GHS07, H302+ H312+H332
2-Mercaptoethanol	Sigma	#M7522	GHS05, GHS06, GHS08, GHS09, H301 + H331-H310-H315-H317-H318-H373-H410
ColonyGel Human Base Medium	ReachBio	#1101	
3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide (MTT)	Sigma	#M5655	GHS07, GHS08, H315-H319-H335-H341
Difco Noble Agar	BD Biosciences	#214883	
Nitrotetrazolium Blue Chloride	Sigma	#N6639	GHS07, H302
D-Luciferin Firefly, Potassium Salt	PerkinElmer	#122796	
4',6- Diamidino-2-phenylindole dihydrochloride	Sigma	#D9542	
FITC CD45	BD Bioscience	#347463	
FITC Mouse IgG1 Isotype control	BD Bioscience	#51-35404X-2	
Gentamycin Sulfate	Sparhawk	#NDC58005-633-04	
Protease Inhibitors	Roche	#11836153001	
DNase	Sigma	#D4263	
Protein G Beads	Invitrogen	#10-1242	
Isofluran	VETONE	#NDC13985-030-60	
			Equipment
Cell culture dishes, diam. 35 mm x H 10 mm	Nunclon	#D7804-500EA	
Cell culture dishes, diam. 100 mm x H 20 mm	Nunclon	#D8429-1CS	
6-well plates	BD Bioscience	#353046	
14 gauge x 4 inch blunt-end needles	Cadence science	#7956	
5 ml syringe with luer-lok	BD Bioscience	#309646	
GelCount automated colony counter	Oxford Optronix		
In vivo bioluminescence imaging system	PerkinElmer	#IVIS200	
Scout pro portable balances, scale	Ohaus	#SP202	

Broome style rodent restrainer	Plas-labs	#551-BSRR	
Ear punch, punch diameter: 2 mm	FST	#24210-02	
Chlorhexidine swabs, Prevantics	PDI	#B10800	
Insulin syringe 1 mL (40 Units) 29 G x 1/2	Monoject	#8881500042	
Plastic feeding needles for rodents (disposable) 20 ga x 38 mm, sterile	Instech	#FTP-20-38	
1 mL Luer-Lok disposable syringe	BD Bioscience	#309628	
Lo-Dose U-100 insulin syringe with 28 G x 1/2, permanently attached needle	BD Bioscience	#329465	
Extra fine bonn scissors	FST	#14084-08	
Student fine scissors	FST	#91460-11	
Moria ultra fine forceps	FST	#11370-40	
Extra fine graefe forceps	FST	#11150-10	
Scalpel handle	FST	#10003-12	
Scalpel blades	FST	#10011-00	