

Characterizing Mammalian Zinc Transporters Using an *In Vitro* Zinc Transport Assay

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Materials

Name	Company	Catalog Number	Comments
10 cm plate	greiner bio-one	664160	
12-well cell culture plate	greiner bio-one	665180	
13 mm coverslips	Superior Marienfeld	111530	
22 mm cover slides	Superior Marienfeld	101050	
6-well culture plate	greiner bio-one	657160	
Bovine serum albumin	bioWorld	22070008	
Calcium chloride anhydrous, granular	Sigma Aldrich	C1016	Concentration in Ringer solution: 1 mM
D-(+)-Glucose	Glentham Life Science	GC6947	Concentration in Ringer solution: 10 mM
Dubelco's Modified Eagle Media (DMEM)	Sartorius	01-055-1A	
Eclipse Ti inverted microscope	Nikon	TI-DH	Discontinued. Replaced by Eclipse Ti2
Fetal Bovine Serum (FBS)	Cytiva	SH30088.03	
Fine tweezers	Dumont	0203-55-PS	
Fluozin-3AM	Invitrogen	F24195	
HyClone Penicillin-Streptomycin 100x solution	Cytiva	SV30010	
LED illumination system	CoolLED	pE-4000	
L-glutamine	Biological Industries	03-020-1B	
Magnesium chloride hexahydrate	Merck	1.05833	Concentration in Ringer solution: 0.8 mM
N[2-Hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] (HEPES)	Formedium	HEPES10	Concentration in Ringer solution: 10 mM
Neo 5.5 sCMOS camera	ANDOR	DC-152Q-FI	
NIS-Elements imaging software	Nikon	AR	
Pluronic acid F-127	Millipore	540025	
Pottasium chloride	Bio-Lab	163823	Concentration in Ringer solution: 5.4 mM

Pyrrhithione	Sigma Aldrich	H3261	Concentration in Ringer zinc solution: 7 μ M
Silicone Grease Kit	Warner Instruments	W4 64-0378	
Sodium chloride	Bio-Lab	190305	Concentration in Ringer solution: 120 mM
Zinc sulfate	Sigma Aldrich	31665	Concentration in Ringer zinc solution: 7 μ M