

Materials List for:

Salinity-dependent Toxicity Assay of Silver Nanocolloids Using Medaka Eggs

Chisato Kataoka^{1,2}, Shosaku Kashiwada^{1,2}

¹Graduate School of Life Sciences, Toyo University

²Research Center for Life and Environmental Sciences, Toyo University

Correspondence to: Shosaku Kashiwada at kashiwada@toyo.jp

URL: <https://www.jove.com/video/53550>

DOI: [doi:10.3791/53550](https://doi.org/10.3791/53550)

Materials

Name	Company	Catalog Number	Comments
Silver nanocolloids	Utopia Silver Supplements		
NaCl	Nacalai Tesque, Inc.	31319-45	For making ERM
KCl	Nacalai Tesque, Inc.	28513-85	For making ERM
CaCl ₂ ·2H ₂ O	Nacalai Tesque, Inc.	06730-15	For making ERM
MgSO ₄ ·7H ₂ O	Nacalai Tesque, Inc.	21002-85	For making ERM
NaHCO ₃	Nacalai Tesque, Inc.	31212-25	For making ERM
AgNO ₃	Nacalai Tesque, Inc.	31018-72	
pH meter	HORIBA, Ltd.	F-51S	
Balance	Mettler-Toledo International Inc.	MS204S	
medaka (<i>Oryzias latipes</i>) orange-red strain	National Institute for Environmental Studies		
medaka flow-through culturing system	Meito Suien Co.	MEITOsysteem	
Artemia salina nauplii eggs	Japan pet design Co. Ltd	4975677033759	
aeration pump	Japan pet design Co. Ltd	non-noise w300	
Otohime larval β-1	Marubeni Nissin Feed Co. Ltd	Otohime larval β-1	Artificial dry fish diet
dissecting microscope	Leica microsystems	M165FC	
micrometer	Fujikogaku, Ltd.	10450023	
incubator	Nksystem	TG-180-5LB	
shaker	ELMI Ltd.	Aizkraukles 21-136	
6-well plastic plates	Greiner CELLSTAR	M8562-100EA	
aluminum foil	AS ONE Co.	6-713-02	
stopwatch	DRETEC Co. Ltd.	SW-111YE	
3 kDa membrane filter	EMD Millipore Corporation	0.5 ml centrifugal-type filter	
50 ml Teflon beaker	AS ONE Co.	33431097	
Custom claritas standard	SPEXcertificate	ZSTC-538	For internal standard
Custom claritas standard	SPEXcertificate	ZSTC-622	For external standard
ultrapure nitric acid	Kanto Chemical Co.	28163-5B	
hydrogen peroxide	Kanto Chemical Co.	18084-1B	for atomic absorption spectrometry
ICP-MS	Thermo Scientific	Thermo Scientific X Series 2	
hot plate	Tiger Co.	CRC-A300	