

Materials List for:

# Analysis of Oxidative Stress in Zebrafish Embryos

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URL: <https://www.jove.com/video/51328>

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## Materials

Name	Company	Catalog Number	Comments
Hydrogen peroxide solution	SIGMA	516813	DO NOT STORE DILUTIONS
Hank's Balanced Salt Solution 1x	GIBCO	14025	
Methyl cellulose	SIGMA	M0387	
Instant Ocean Aquarium Sea Salt Mixture	INSTANT OCEAN	SS15-10	
Tricaine	SIGMA	A5040	
Cgeneric ROS-sensitive probe: CellROX Deep Red Reagent	INVITROGEN	C10422	
Mitochondria specific ROS-sensitive probe: MitoSOX	INVITROGEN	M36008	dissolve one vial with 13 µl of DMSO
Hydroethidine	INVITROGEN	D23107	
Rotenone	SIGMA	R8875	Prepare 5 mM stock solution in DMSO.
Dimethyl sulfoxide	SIGMA	D2650	
VAS2870; 3-Benzyl-7-(2-benzoxazolyl)thio-1,2,3-triazolo(4,5-d)pyrimidine	EnzoLifeScience	BML-EI395	dissolve the powder in DMSO; dilute in fish water
Propidium Iodide	Molecular probes (Life Technologies)	P3566	
7-aminoactinomycin D (7-AAD)	Molecular probes (Life Technologies)	A1310	
Nrf2a Morpholino	GeneTools	5'-CATTTC AATCTCCAT CATGTCTCAG-3'	Ref: Timme-LaLaragy <i>et al.</i> ; 2012 (PMID: 22174413); Kobayashi <i>et al.</i> ; 2002 (PMID:12167159)
Collagenase P	ROCHE	11213857001	Dissolve the powder at 100 mg/ml in sterile HBSS. Store aliquots at -20 °C
Phosphate-Buffered Saline (PBS)	GIBCO	10010-056	
Fetal Bovine Serum	GIBCO	10082-147	
Complete Protease Inhibitor Cocktail Tablets	ROCHE		Dissolve one tablet in 1 ml of water
0.5% Trypsin-EDTA (10x), no phenol red	GIBCO	15400-054	Prepare 1x working solution before usage
Compound microscope	ZEISS		
Stereo microscope with fluorescent illumination	Nikon	AZ100	
Camera	ZEISS	AxioCamMRm	
software for fluorescence image acquisition	ZEISS	ZEN 2011	
Fluorescence-activated cell sorter	BD FACSCalibur		

Centrifuge	Eppendorf	5417R	
FACS tubes	BD	342065	
Multiwell Plate	BD Falcon	353047	
Sterilized, non treated Petri dishes 90 mm	VWR	391-1915	
Confocal microscope	Leica	Leica SP5	