

Materials List for:

Evaluation of the Impact of Protein Aggregation on Cellular Oxidative Stress in Yeast

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Materials

Name	Company	Catalog Number	Comments
Yeast cells BY4741	ATCC	201388	Genotype: MATa his3Δ1 leu2Δ0 met15Δ0 ura3Δ0
pESC(-Ura) plasmid	Agilent Genomics	217454	Yeast expression plasmid with a Gal promotor. Selectable marker URA3
Yeast Synthetic Drop-out Medium Supplements	Sigma	Y1501	Powder
Yeast Nitrogen Base Without Amino Acids	Sigma	Y0626	Powder
Raffinose	Sigma	R7630	Powder
Glucose	Sigma	G7021	Powder
Galactose	Sigma	G0750	Powder
Phosphate Buffered Saline (PBS)	Fisher Scientific	BP3991	Solution 10X
CellROX Deep Red Reagent	Life Technologies	C10422	Free radical cell-permeant fluorescent sensor, non-fluorescent while in a reduced state, and exhibits bright fluorescence upon oxidation by reactive oxygen species (ROS), with absorption/emission maxima at 644/665 nm.
Y-PER protein extraction reagent	Thermo Scientific	78990	Liquid cell lysis buffer
Acrylamide/Bis-acrylamide	Sigma	A6050	Solution
Bradford dye reagent	Bio-Rad	5000205	Dye reagent for one-step determination of protein concentration
β-amyloid antibody 6E10	BioLegend	803001	Mouse IgG1. The epitope lies within amino acids 3-8 of beta amyloid (EFRHDS).
Goat anti-mouse IgG-HRP conjugate	Bio-Rad	1721011	
Membrane Immobilon-P, PVDF	Millipore	IPVH00010	
Luminata forte	Merk	WBLUF0100	Premixed, ready to use chemiluminescent HRP detection reagent
Phenylmethanesulfonyl fluoride solution (PMSF)	Sigma	93482	Protease inhibitor. Dissolved at 0.1 M in ethanol
FACSCanto flow cytometer	BD Biosciences	657338	Equipped with a 488 nm blue laser for the detection of GFP, and 635 nm red laser / 530/30 nm BP filter and 660/20 BP filter
Mini Trans-Blot Electrophoresis Transfer cell	Bio-Rad	1703930	Protein transference system

Mini-PROTEAN Tetra Handcast Systems	Bio-Rad	1658000FC	Electrophoresis system
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