

Materials List for:

Evaluation of Oxidative Stress in Biological Samples Using the Thiobarbituric Acid Reactive Substances Assay

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URL: <https://www.jove.com/video/61122>

DOI: [doi:10.3791/61122](https://doi.org/10.3791/61122)

Materials

Name	Company	Catalog Number	Comments
1x Sterile PBS pH 7.4 1 L	VWR, PA	101642--262	cell lysis reagent
50 mL self-standing centrifuge tube	Corning, NY	CLS430897	General material
96 well plate, Non-Treated, clear, with lid, Non-sterile	Thermo Fisher Scientific, MA	280895	To measure absorbance
Amicon Ultra-0.5 100 kD centrifugal spin filter device	Fisher Scientific, NH	UFC510024	LDL purification
Caps for glass tubes	Thermo Fisher Scientific, MA	14-930-15D	for TBARS assay
Copper II Chloride	SIGMA, MO	222011-250G	to induce oxidation
Culture tubes, Disposable, with Screw-Cap Finish, Borosilicate Glass (13 x 100 mm)	VWR, PA	53283-800	for TBARS assay
Eagle's Minimum Essential Medium (EMEM)	ATCC, VA	HB-8065	HepG2 cell media
Eppendorf Safe-Lock Tubes, 1.5 mL	eppendorf, NY	22363204	General material
Eppendorf Safe-Lock Tubes, 2.0 mL	Genesee Sceitific, CA	22363352	General material
Fetal Bovine Serum US Source	Omega Scientific, CA	FB-11	for cell culture
Glacial Acetic Acid	SIGMA, MO	27225-1L-R	TBARS Reagent
Halt Protease Inhibitor Cocktail (100x)	Thermo Scientific, MA	87786	cell lysis reagent
HEPES	SIGMA, MO	H3375-250G	LDL solvent
HepG2 Cells	ATCC, VA	HB-8065	Biological matrix prototype
Hydrochloric acid (HCl)	Fisher Scientific, NH	A144-212	cell lysis reagent
Legend Micro 17 Centrifuge	Thermo Scientific, MA	75002431	General material
Low Density Lipoprotein, Human Plasma	Athens Research & Technology, GA	12-16-120412	Biological matrix prototype
Magnetic Stir Bars, Octagon 6-Assortment	VWR, PA	58948-025	General material
Malondialdehyde bis (dimethyl acetal)	SIGMA, MO	8207560250	TBARS Standard
Multiskan Go Microplate Spectrophotometer	Fisher Scientific, NH	51119200	To measure absorbance
NP-40	EMD Millipore Corp, MA	492016-100ML	cell lysis reagent
Sodium Chloride	SIGMA, MO	S7653-1KG	cell lysis reagent
Sodium dodecyl sulfate (SDS)	SIGMA, MO	436143-100G	TBARS Reagent
Sodium hydroxide	SIGMA, MO	367176-2.5KG	TBARS Reagent
SpeedVac Concentrator	Thermo Scientific, MA	SC250EXP	For concentrating cell lysates

T-75 Flask, Tissue Culture Treated, 250 mL, w/filter cap	USA Scientific, FL	658175	cell culture
Thiobarbituric Acid	SIGMA, MO	T5500-100G	TBARS Reagent
TRIS base	Fluka, GA	93362	cell lysis reagent
Trypsin (1x)	VWR, PA	16777-166	To detach HepG2 cells