

Materials List for

Spectrophotometric Screening for Potential Inhibitors of Cytosolic Glutathione S-Transferases

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jove.com/video/61347

Materials

Name	Company	Catalog Number	Comments
1-Chloro-2,4-dinitrobenzene (CDNB)	Sigma-Aldrich	237329	Substrate used for the GST enzymatic assay
Corning UV-Transparent Microplates	Sigma-Aldrich	CLS3635	Transparent plate to perform the enzymatic assay. When using 200 ul, the pathlength is 0.552 cm for this plate.
Curcumin	Sigma-Aldrich	8511	Used for the results section, to test the inhibition potency of curcumin
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	D2650	To prepare the stock of the putative inhibitor
DPBS	Sigma-Aldrich	D8537	Buffer for the enzymatic reaction
Ethanol 95%	Fisher scientific	10542382	To dilute the CDNB
Glutathione S-Transferase from equine liver	Sigma-Aldrich	G6511	Used for the results section, to test the inhibition potency of curcumin
L-glutathione reduced (GSH)	Sigma-Aldrich	G4251	Co-substrate for the GST enzymatic assay
Pierce BCA Protein Assay Kit	ThermoFisher	23225	To quantify the amount of protein present in the enzymatic solution
Spectramax iD3	Molecular devices		To do spectrophotometric measurements