

Materials List for:

Stable Isotopic Profiling of Intermediary Metabolic Flux in Developing and Adult Stage *Caenorhabditis elegans*

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Materials

Name	Company	Catalog Number	Comments
S. basal		¹ - page 59	Protocols A and B
Cholesterol	Sigma-Aldrich	C-8503	Protocol B
OP50 <i>E. coli</i>	Caenorhabditis Genetics Center		Protocols A and C
K12 <i>E. coli</i>	Caenorhabditis Genetics Center		Protocol B
NGM agar	Research Products International Corp.	N81800-1000.0	Protocols A, B, and C
¹³ C glucose (universally labeled)	Cambridge Isotope Laboratories	CLM-1396	Protocol A and C
¹³ C glucose (1,6 labeled)	Cambridge Isotope Laboratories	CLM-2717	Protocol B
60% Perchloric acid (PCA)	Fisher Scientific	MK2766500	Protocols A and B
ε-aminocaproic acid (Internal Standard)	Sigma-Aldrich	A-2504	Protocols A and B
MTBSTFA	Regis	270243	Protocol E
Acetonitrile	Regis	270010	Protocol E
AG 1-X8, 100-200, Chloride form resin	Bio-Rad	140-1441	Protocols A and B (organic acid extraction)
AG 50W-X8, 100-200, Hydrogen form resin	Bio-Rad	142-1441	Protocols A and B (amino acid extraction)
NaHCO ₃	Sigma-Aldrich	S-8875	Protocol C
NaOH	Sigma-Aldrich	S8045	Protocol C
3N HCl	Sigma-Aldrich	320331	Protocol D
1N HCl	Sigma-Aldrich	320331	Protocol A
0.1 N HCl	Sigma-Aldrich	320331	Protocol D
4N NH ₄ OH	Sigma-Aldrich	30501	Protocol D
4N KOH	Sigma-Aldrich	484016	Protocols A and B
Deionized water	Milli Q Biocel	ZMQA60F01	Protocol D
Helium	Airgas	24001364	Protocol C2
SMZ-800 Zoom Stereo-Microscope	Nikon Instruments	NI MNA41000	Protocols A, B, and C
pH meter	Fisher Scientific	S68167	Protocols A and B
Table top centrifuge - 5804R	Eppendorf	05-400-93	Protocols A and B
Incubated platform shaker	New Brunswick Scientific	M1324-0004	Protocol B
Mini LabRoller Rotator	Labnet International	H-5500	Protocols A and B
Pestles	Kontes Corp	K749520-0090	Protocols A and B
Drill	Kontes Corp	K749540-0000	Protocols A and B

1 L glass beaker	Fisher Scientific	02-539P	
1 L Erlenmeyer Flasks	VWR international	89000-368	
25 mL Erlenmeyer Flasks	VWR international	89000-356	Protocol B
7ml round-bottom glass tubes + rubber stopper	VWR international	VT6431	Protocols A, B, and C1,C2
10 ml round-bottom glass tubes + rubber stopper	VWR international	VT6430	Protocol C2
Blue top tubes	Labco	438B	
50 ml conical plastic tubes	Falcon BD	14-959-49A	All protocols
1.5 ml microfuge tubes	Fisher Scientific	02-681-320	Protocols A and B
Syringes (1 mL, 10 mL, 20 mL)	BD Biosciences	301025, 301029, 301031	Protocols C1 and C2
25 gauge needles	Fisher Scientific	22-253-131	Protocols C1 and C2
Poly-Prep Chromatography Columns	Bio-Rad	731-1550	Protocol D
Pasteur pipettes	VWR international	14673-043	Protocol D
60mm Petri dishes	VWR international	25373-085	Protocol C
Glass chamber (cut bottom of 1 L flask) fitted with grease-sealed 3-way stopcock	Custom Made		Protocol C
Optically transparent glass plate	Custom Made		Protocol C
Reacti-Vap III Evaporator	Thermo Fisher Scientific, Inc.	18826	Protocol D
Cotton	VWR international	14224-516	Protocol D
High Vacuum Grease	Dow Corning	1597418	Protocol C1
Aluminum Foil	Fisher Scientific	01-213-18	Protocol B
Timer	ISC Bioexpress	T-2504-5	Protocol C
Gas-Ratio Mass Spectrometer	Thermo Fisher Scientific, Inc.		Protocol D
GC-MS	Hewlett-Packard	5980/5971	Protocol D
GC-MS	Agilent Technologies	6980N/5973N	Protocol D
HPLC	Varian Inc., Agilent	9010	Protocol D