

Materials List for

Using Modified Synthetic Oligonucleotides to Assay Nucleic Acid-Metabolizing Enzymes

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Citation

Stelzer, R., Rzoska-Smith, E., Gundesø, S., Rothweiler, U., Williamson, A. Using Modified Synthetic Oligonucleotides to Assay Nucleic Acid-Metabolizing Enzymes. *J. Vis. Exp.* (209), e66930, doi:10.3791/66930 (2024).

Date Published

July 5, 2024

DOI

10.3791/66930

URL

jove.com/video/66930

Materials

Name	Company	Catalog Number	Comments
30% Acrylamide/Bis Solution (29:1)	BioRad	1610156	
Adenosine triphosphate (ATP)	Many suppliers		
Ammonium persulfate (APS)	Many suppliers		
Benchtop centrifuge	Many suppliers		
Borate	Many suppliers		
Bromophenol blue	Many suppliers		
Dithiothreitol (DTT)	Many suppliers		
Electrophoresis system with circulating water bath	Many suppliers		
Ethylenediaminetetraacetic acid (EDTA)	Many suppliers		
Fluorescence imager, e.g. iBright FL1000	Thermo Fisher Scientific	A32752	
Formamide	Many suppliers		
Gel casting system	Many suppliers		
Heating block	Many suppliers		
Magnesium Chloride	Many suppliers		Other metal ions may be preferred depending on the protein studied
Microcentrifuge tubes (1.5 mL)	Many suppliers		
Micropipettes and tips	Many suppliers		1 mL, 0.2 mL, 0.02 mL, 0.002 mL
Nicotinamide adenine dinucleotide (NAD ⁺)	Many suppliers		
Oligonucleotides	Integrated DNA Technologies	NA	Thermo Fisher, Sigma-Aldrich, Genscript and others also supply these
pasture pipette	Many suppliers		
PCR thermocycler	Many suppliers		
PCR tubes	Many suppliers		
RNAse away	ThermoFisher	7002PK	Only needed when working with RNA oligos

RNase AWAY	Merck	83931-250ML	Surfactant for removal of RNase contamination on surfaces
RNase-free water	New England Biolabs	B1500L	Only needed when working with RNA oligos
Sodium Chloride	Many suppliers		
SUPERase IN RNase inhibitor	Thermo Fisher Scientific	AM2694	Broad spectrum RNase inhibitor (protein-based)
SYBR Gold	Thermo Fisher Scientific	S11494	This may be used to post-stain gels and visualise unlabelled oligonucleotides
Tetramethylethylenediamine (TMED)	Many suppliers		
Tris, or tris(hydroxymethyl)aminomethane	Many suppliers		
Ultrapure water (Milli-Q)	Merck		
urea	Many suppliers		
Vortex	Many suppliers		