

Materials List for:

Protocol for the Solid-phase Synthesis of Oligomers of RNA Containing a 2'-O-thiophenylmethyl Modification and Characterization via Circular Dichroism

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Materials

Name	Company	Catalog Number	Comments
AbsolveTM	PerkinElmer	6NE9711	
Acetonitrile 99.9%, HPLC Grade	Fisher Scientific	75-05-8	
Acetonitrile 99.9%, anhydrous for DNA sequencing	Fisher BioReagents	75-05-8	
Acrylamide, 99+%	ACROS Organics	164850025	
Ammonium chloride 98+%	Alfa Aesar	12125-02-9	
Ammonium citrate, dibasic 98%	Sigma Aldrich	3012-65-5	
Ammonium Fluoride 98.0%, ACS grade	Alfa Aesar	12125-01-8	
Ammonium hydroxide 28 - 30% in water, ACS Plus	Fisher Chemical	1336-21-6	
Ammonium persulfate	ACROS Organics	1444	
Argon-ultra high purity	Airgas	7440-37-1	
Bis-acrylamide Ultra pure	VWR-Amresco	172	
Boric Acid	Fisher Scientific	A73-1	
Diethyl pyrocarbonate, 97%	ACROS Organics	A0368487	
Ethanol, anhydrous, histological grade	Fisher Chemical	64-17-5	
Ethylenediamine tetraacetic acid, disodium salt dehydrate 100.2%	Fisher Chemical	6381-92-6	
Formamide	Thermo Scientific	75-12-7	
Hydrochloric acid, 36.5 - 38.0%, Certified ACS Plus	Fisher Chemical	7647-01-0	
Magnesium chloride hexahydrate, 99%	Fisher Scientific	7786-30-3	
Methanol, 99.9%, HPLC Grade	Fisher Chemical	67-56-1	
Methylamine 40% in water	Sigma Aldrich	74-89-5	
1-Methyl-2-pyrrolidinone, anhydrous, 99.5%	Aldrich	872-50-4	
Opti-TOFTM 96 Well Insert (123 x 81 mm)	MDS SCIEX	1020157	
RNase Away	Molecular BioProducts	7005-11	
Sodium acetate, anhydrous 99.2%, Certified ACS	Fisher Chemical	127-09-3	
Sodium chloride, 100.5%, Certified ACS	Fisher Chemical	7647-14-5	
Sodium phosphate monobasic dihydrate 99.0%	Sigma	13472-35-0	

2',4' Triethylamine, 99+%	Alfa Aesar	121-44-8	
TEMED	Amresco	761	
Triethylamine trihydrofluoride, 98%	Aldrich	73602-61-6	
Trifluoroacetic acid, 99%	Alfa Aesar	76-05-1	
6'-Trihydroxyacetophenone monohydrate 98%	Sigma Aldrich	480-66-0	
Tris Base	Fisher Scientific	BP154-3	
Urea	Fisher Scientific	U15-3	
Reagents for the RNA synthesis:			
Deblocking mix, 3% trichloroacetic acid in dichloromethane	Glen Research	40-4140-57	
Cap Mix A, THF/Pyridine/Acetic anhydride	Glen Research	40-4110-52	
Cap Mix B, 10% 1-methylimidazole in THF	Glen Research	40-4120-52	
Activator, 0.25 M 5-ethylthio-1H-tetrazole in anhydrous acetonitrile	Glen Research	30-3140-52	
Oxidizing Solution, 0.02 M iodine in THF/Pyridine/Water	Glen Research	40-4330-52	
U-RNA-CPG	Glen Research	20-3330-xx	
Ac-G-RNA-CPG	Glen Research	20-3324-xx	
Ac-G-CE Phosphoramidite	Glen Research	10-3025-xx	
U-CE Phosphoramidite	Glen Research	10-3030-xx	
Ac-C-CE Phosphoramidite	Glen Research	10-3015-xx	
Bz-A-CE Phosphoramidite	Glen Research	10-3003-xx	