

Materials List for:

Sequence-specific and Selective Recognition of Double-stranded RNAs over Single-stranded RNAs by Chemically Modified Peptide Nucleic Acids

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Materials

Name	Company	Catalog Number	Comments
Molecular sieves, 4A, 1-2 mm diameter pellets	Alfa Aesar	87956	
4-Methylbenzhydramine hydrochloride (MBHAYHCl)	Sigma-Aldrich	532444	
N,N-diisopropylethylamine (DIPEA)	Alfa Aesar	A11801	
(Benzotriazol-1-yl-oxy)tripyrrolidinophosphonium hexafluorophosphate (PyBOP)	Alfa Aesar	B25251	
Acetic anhydride	Sigma-Aldrich	320102	
Kaiser Test Kit	Sigma-Aldrich	60017	
Trifluoroacetic acid (TFA)	Alfa Aesar	L06374	
Unmodified PNA monomers	ASM Research Chemicals GmbH	5004007, 5004008, 5004009, 5004010	
Boc-Lys(Z)-OH / Fmoc-Lys(Boc)-OH	Sigma-Aldrich	B8389 / 47624	
Thioanisole	Alfa Aesar	A14846	
1,2-Ethanedithiol	Alfa Aesar	L12865	
Trifluoromethanesulfonic acid	Alfa Aesar	A10173	
LiChrosper® 100 RP-18 endcapped (5 µm) LiChroCART® 250-4	Merck Millipore	150838	
RNA Oligos	Sigma-Aldrich	Customized	
α-cyano-4-hydroxycinnamic acid (CHCA)	Sigma-Aldrich	39468	
Ethylenediaminetetraacetic acid (EDTA)	Alfa Aesar	J15694	
HEPES	Lonza	17-737E	
Acrylamide	Sigma-Aldrich	A8887	
N,N'-methylenebisacrylamide	Sigma-Aldrich	146072	
Ammonium persulfate (APS)	Bio-rad	161-0700	
Tetramethylethylenediamine (TEMED)	Bio-rad	161-0800	
10X Tris-Borate-EDTA (TBE) Buffer, pH 8.3	1st Base	BUF-3010-10X1L	
Glycerol	Promega	H5433	
Ethidium bromide (10 mg/mL)	Bio-rad	161-0433	

High Precision Cell (Quartz Suprasil, 200-2500 nm)	Hellma Analytics	105.250-QS	
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