

Materials List for:

Sequence-specific Labeling of Nucleic Acids and Proteins with Methyltransferases and Cofactor Analogues

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URL: <https://www.jove.com/video/52014>

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Materials

Name	Company	Catalog Number	Comments
6BAz			Synthesized according to Weinhold et al., Patent number US 8,129,106, published March 6, 2012.
β-Mercaptoethanol	Serva	28625	
Acetic acid	Fisher Scientific	10304980	
Acrylamide/Bis Solution, 37.5:1	Serva	10688	
UltraPure Agarose	Invitrogen	16500100	
Ammonium persulfate (APS)	Serva	13375	
Bis-Tris	Gerbu	1304	
Boric acid	Gerbu	1115	
Bromophenol blue Na salt	Serva	15375	
Copper(II) sulfate	Aldrich	C1297	
Chloroform	Fisher Scientific	10020090	
Coomassie Brilliant Blue	Serva	17525	
EDTA disodium salt	Gerbu	1034	
Ethanol	Merck	100983	
GelRed (10,000x in water)	Biotium	41003	
Glycerol (99.5%)	Gerbu	2006	
FastRuler Low Range DNA Ladder	Thermo Scientific	SM1103	
Histone H3			Expression plasmid obtained from Dr. Philipp Voigt and Prof. Danny Reinberg; expression and isolation according to T. J. Richmond et al., J. Mol. Biol. 1997, 272, 301-311.
M.BseCI			Expression plasmid obtained from Dr. Michael Kokkinidis; expression and isolation according to Kapetaniou et al., Acta Cryst. 2006, F63, 12-14.
Methanol	Fisher Scientific	10675112	
Magnesiumchloride hexahydrate	J.T. Baker	4003	
MOPS	Gerbu	1081	
Sodium chloride	Gerbu	1112	
pH strip (Neutralit)	Merck	1,095,330,001	
pBR322	Thermo Scientific	SD0041	
R.TaqI (10 u/μl)	Thermo Scientific	ER0671	

SeAdoYn			Synthesized according to Willnow et al., ChemBioChem 2012, 13, 1167-1173.
Set7/9			Expression plasmid obtained from Prof. Danny Reinberg, expression and isolation according to D. Reinberg et al., Genes Dev.2002, 16, 479-489.
Streptavidin	Gerbu	3058	
(+)-Sodium L-ascorbate	Sigma Life Science	A7631	
SDS Granular	Gerbu	1833	
di-Sodium hydrogenphosphate	Merck	106,586	
TAMRA azide			Synthesized according to reference 30: Willnow et al., ChemBioChem 2012, 13, 1167-1173.
TaqI buffer (10x)	Thermo Scientific	B28	
N,N,N',N'-Tetramethylethylenediamine (TEMED)	Acros Organics	42058	
Tris-HCl	Gerbu	1028	
Tris-X (TRIS-base)	Gerbu	1018	
Tris(3-hydroxypropyltriazolyl-methyl)amine (THPTA)	Sigma-Aldrich	762342	