

Materials List for:

Amplifying and Quantifying HIV-1 RNA in HIV Infected Individuals with Viral Loads Below the Limit of Detection by Standard Clinical Assays

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URL: <https://www.jove.com/video/2960>

DOI: [doi:10.3791/2960](https://doi.org/10.3791/2960)

Materials

Name	Company	Catalog Number	Comments
Random hexamers (500 ug/ml)	Promega Corp.	C118A	
Taqman buffer A	Applied Biosystems	4304441	
RNasin (40 U/ul)	Promega Corp.	N211B	
RT enzyme (200 U/ul)	Stratagene, Agilent Technologies	600107-51	
Amplitaq Gold DNA polymerase	Applied Biosystems	4311814	6-pack
Amplitaq 10XGold PCR buffer II	Applied Biosystems	4311814	comes with the enzyme
Magnesiumchloride 25 mM	Applied Biosystems	4311814	comes with the enzyme
1M Tris-HCl buffer, pH 8.0, 5 mM	Invitrogen	AM9855G	
Superscript III reverse transcriptase enzyme, 200 U/ul	Invitrogen	18080-044	
Superscript III 10X buffer	Invitrogen		comes with the enzyme
DTT 100 mM	Invitrogen		comes with the enzyme
Platinum Taq DNA polymerase High Fidelity 5 U/ul	Invitrogen	11304-102	
10X High Fidelity PCR Buffer	Invitrogen	11304-102	comes with the enzyme
Proteinase-K 20 mg/ml	Ambion	2546	
Guanidinium Thiocyanate solution 6M	Fluka	50983	
Glycogen 20 mg/ml	Roche Group	10901393001	
Isopropanol	Sigma-Aldrich	19516	
Ethanol 70%	Sigma-Aldrich	E702-3	
Molecular grade water	GIBCO, by Life Technologies	10977-015	
dNTPs (25 mmol each)	Bioline	BIO-39025	
Easy Seal Centrifuge Tubes (16x73mm)	Seaton Scientific	6041	
White Delrin crowns	Seaton Scientific	4020	Caps for the Easy Seal Tubes
Tube Rack for Optiseal Bell-Top Tubes, 8.9 ml	Beckman Coulter Inc.	361642	
Hex driver ½ inc opening	Seaton Scientific	4013	
cap removal tupe	Seaton Scientific	4014	
5 ml serological pipettes	Costar	4051	
Pipetboy	Any Supplier		
15 ml Transfer pipettes	ISC Bioexpress	P-5005-7	

5.8 ml Disposable transfer pipettes, fine tip	VWR international	14670-329	
15 ml centrifuge tubes	Falcon BD		
1 ml centrifuge tubes	Any Supplier		
Tris buffer Saline tablets	Sigma-Aldrich	T5030-100TAB	
Ultracentrifuge and rotor	Sorvall, Thermo Scientific	90SE and T-1270	
96-well PCR plates	Bio-Rad	HSS-9601	
50 ml Reagent reservoir	Costar	4870	
Microamp optical 96-well reaction plate	Applied Biosystems	N801-0560	
Optical plate covers	Applied Biosystems	4333183	
MicroAmp Optical Compression Pad	Applied Biosystems	4312639	
Microseal A film	Bio-Rad	MSA-5001	
2 ml centrifuge tubes	Any Supplier		
1% agarose gels (E-gel, invitrogen)	Invitrogen	G-7008-01	
E-base (Invitrogen)	Invitrogen	EB-M03	
EDTA Collection tubes any brand			