

Materials List for:

Demonstrating a Multi-drug Resistant *Mycobacterium tuberculosis* Amplification Microarray

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URL: <https://www.jove.com/video/51256>

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Materials

Name	Company	Catalog Number	Comments
MDR-TB amplification microarrays, with applied gasket and pre-cut cover slips	Akonni Biosystems	Inquire	
Multiplex PCR kit, containing 2X PCR buffer with HotStar Taq plus	Qiagen	#206143	
Taq polymerase	Qiagen	#201207	
RNAse-free water	Qiagen	#206143	
Formamide	Thermo Fisher Scientific, Inc.	#BP227-500	
20 mg mL ⁻¹ non-acetylated bovine serum albumin (BSA)	Sigma-Aldrich	#3B6917	
5X concentrated MDR-TB primer mix	Akonni Biosystems	Inquire	
500 fg uL ⁻¹ amplification and inhibition control	Akonni Biosystems	Inquire	
20X SSPE	Thermo Fisher Scientific, Inc.	#BP1328-4	
Triton X-100	Thermo Fisher Scientific, Inc.	#BP151-500	
Disinfecting Spray	Current Technologies, Inc.	#BRSPRAY128	
70% Isopropyl Alcohol	Decon Labs, Inc.	#8416	
Microarray imager, with automated image and data analysis software	Akonni Biosystems	100-20011	
Thermal cycler with flat block insert	Akonni Biosystems	100-10021	
High-throughput wash station and slide holder	ArrayIt	HTW	
Dissecting forceps	Thermo Fisher Scientific, Inc.	#10-300	
Mini Vortexer	VWR	#3365040	
Mini-centrifuge	VWR	#93000-196	
Airbrush Compressor Kit	Central Pneumatic	#95630	