

Materials List for:

RNAi-mediated Control of Aflatoxins in Peanut: Method to Analyze Mycotoxin Production and Transgene Expression in the Peanut/*Aspergillus* Pathosystem

Renée S. Arias¹, Phat M. Dang¹, Victor S. Sobolev¹

¹National Peanut Research Laboratory, United States Department of Agriculture, Agricultural Research Service

Correspondence to: Renée S. Arias at renee.arias@ars.usda.gov

URL: <https://www.jove.com/video/53398>

DOI: [doi:10.3791/53398](https://doi.org/10.3791/53398)

Materials

Name	Company	Catalog Number	Comments
Primers, oligonucleotides	DNA Technologies, Coralville, IA, USA	n/a	
Dneasy Plant Mini Kit	Qiagen, Valencia, CA	69106	
Czapek Dox agar medium	Oxoid, by Thermo Fisher Scientific, Waltham, MA	CM0095	
Agar	Thermo Fisher Scientific, Waltham, MA	BP 1423	
Freezer -80 °C	n/a	n/a	
Aluminum Oxide, Al ₂ O ₃	Fisher Scientific	A941	
SPE Reservoirs 1.5 ml	Grace Davison Discovery Scientific	210011	
Frits for 1.5 ml SPE reservoir	Grace Davison Discovery Scientific	211401	
Autosampler vials	Waters Corporation, Milford, MA	186005221	
Waters Acquity Ultra-Performance Liquid-Chromatography (UPLC) instrument; UPLC-H-Class Quaternary Solvent Manager; UPLC Sample Manager; UPLC Fluorescent detector (FLR); UPLC BEH C18 2.1 mm x 50 mm, 1.7 mm column	Waters Corporation, Milford, MA		
Finnigan LCQ Advantage MAX ion trap mass spectrometer, with Xcalibur version 1.4 software	Thermo Electron Corp., San Jose, CA		
Aflatoxin standards, B ₁ , B ₂ , G ₁ and G ₂	Sigma-Aldrich, St. Louis, MO	A6636; A9887; A0138; A0263	
Systat Software 12.2	SYSTAT Software Inc., Point Richmond, CA		
Trizol reagent	Invitrogen, CA	15596-018	
SuperScript III First Strand Synthesis Super Mix	Invitrogen, CA	11752-050	
ABI 7500 Real-Time PCR	Lifetechnologies, Grand Island, NY	4406984	
Luria Broth-Miller	Fisher Scientific	R453642	
pENTR1A	Invitrogen, CA	A10462	
LR Clonase II enzyme mix	Invitrogen, CA	11791-020	
T4 DNA Ligase	NEB Biolabs	M0202L	
Gelrite	Sigma-Aldrich, St. Louis, MO	G1919	
Acetosyringone	Sigma-Aldrich, St. Louis, MO	D134406	
QIAcube robot workstation	Qiagen, Valencia, CA	9001292	

Antibiotics: kanamycin, cefotaxime, gentamicin; streptomycin	Goldbio, St. Louis, MO	cef.: C-104-25; kan: K-120-5; gent.: G-400-1; strep.: S-150-50	
Platinum Taq DNA Polymerase High Fidelity	Invitrogen, CA	11304-029	