

Materials List for

Field-Deployable *Candidatus Liberibacter asiaticus* Detection Using Recombinase Polymerase Amplification Combined with CRISPR-Cas12a

Min Li¹, Hongkun Qin^{*1}, Yunfei Long¹, Meiqin Cheng¹, Ling Li¹, Aijun Huang², Nian Wang³, Shuo Duan¹

¹China-USA Citrus Huanglongbing Joint Laboratory, National Navel Orange Engineering Research Center, Gannan Normal University ²Department of Biological Sciences, Gannan Normal University ³Citrus Research and Education Center, Department of Microbiology and Cell Science, University of Florida - Institute of Food and Agricultural Sciences

*These authors contributed equally

Corresponding Author

Shuo Duan
duansure@163.com

Citation

Li, M., Qin, H., Long, Y., Cheng, M., Li, L., Huang, A., Wang, N., Duan, S. Field-Deployable *Candidatus Liberibacter asiaticus* Detection Using Recombinase Polymerase Amplification Combined with CRISPR-Cas12a. *J. Vis. Exp.* (190), e64070, doi:10.3791/64070 (2022).

Date Published

December 23, 2022

DOI

10.3791/64070

URL

jove.com/video/64070

Materials

Name	Company	Catalog Number	Comments
AxyPrep DNA Gel Extraction Kit	Corning	09319KE1	China
Bacterial Genomic DNA Extraction Kit	Solarbio	D1600	China
EnGen LbCas12a	TOLOBIO	32104-01	China
Ex Taq Version 2.0 plus dye	TaKaRa	RR902A	China
Handheld fluorescent detection device	LUYOR	3415RG	China
Hole puncher	Deli	114	China
Magnesium acetate, MgOAc	TwistDx	TABAS03KIT	UK
NaOH	SCR	10019718	China
NEB buffer 3.1	NEB	B7203	USA
PCR strip tubes	LABSELECT	PST-0208-FT-C	China
PEG 200	Sigma	P3015	USA
PrimeSTAR Max DNA Polymerase	TaKaRa	R045A	China
Quick-Load Purple 1 kb Plus DNA Ladder	New England Biolabs	N0550S	USA
TB Green Premix Ex Taq II (Tli RNaseH Plus)	TaKaRa	RR820B	China
TwistAmp Basic	TwistDx	TABAS03KIT	UK