

Materials List for

Extracting Venom from the Parasitoid Wasp *Trichogramma dendrolimi* using an Artificial Host

Hai-yan Wang^{*1,2}, Ze-qi Yu^{*1,2}, Xin-yue Ren^{1,2}, Yuan-xi Li^{1,2}, Zhi-chao Yan^{1,2,3}

¹Department of Entomology, Nanjing Agricultural University ²Key Laboratory of Integrated Pest Management of Crop of East China, Ministry of Agriculture

³Sanya Institute of Nanjing Agricultural University

*These authors contributed equally

Corresponding Author

Zhi-chao Yan

zcyan@njau.edu.cn

Citation

Wang, H.y., Yu, Z.q., Ren, X.y., Li, Y.x., Yan, Z.c. Extracting Venom from the Parasitoid Wasp *Trichogramma dendrolimi* using an Artificial Host. *J. Vis. Exp.* (200), e66032, doi:10.3791/66032 (2023).

Date Published

October 6, 2023

DOI

10.3791/66032

URL

jove.com/video/66032

Materials

Name	Company	Catalog Number	Comments
10 µm Nylon Net	Millipore	NY1002500	For filtering the eggs
10% Polyvinyl alcohol	Aladdin	P139533	For attracting <i>T. dendrolimi</i> to lay eggs
10% Sucrose water	Sinopharm Chemical Reagent	10021463	Feed <i>Trichogramma dendrolimi</i>
4x LDS loading buffer	Ace Hardware	B23010301	SDS-PAGE
Collection box	Deli	8555	Container for <i>T. dendrolimi</i> parasitism
Future PAGE 4–12% (12 wells)	Ace Hardware	J70236502X	SDS-PAGE
GenScript eStain L1 protein staining apparatus	GenScript	L00753	SDS-PAGE
Glass grinding rod	Applygen	tb6268	Semicircular protrusions
L- Leucine	Solarbio	L0011	Artificial host components
L-Histidine	Aladdin	A2219458	Artificial host components
L-Phenylalanine	Solarbio	P0010	Artificial host components
Mini-Centrifuges	Scilogex	D1008	Centrifuge
MOPS-SDS running buffer	Ace Hardware	B23021	SDS-PAGE
Omni-Easy Instant BCA protein assay kit	Shanghai Yamay Biomedical Technology	ZJ102	For estimation of venom protein concentration
PCR plate layout of 96 holes	Thermo Fisher	AB1400L	Semicircular protrusions
Polyethylene plastic film	Suzhou Aopang Trading	001c5427	Artificial egg card
Prestained color protein marker(10–180 kDa)	YiFeiXue Biotech	YWB007	SDS-PAGE
Rubber band	Guangzhou qianrui biology science and technology	009	Tighten the plastic film and the collection box
Silicone rubber septa mat, 96-well, round hole	Sangon Biotech	F504416-0001	Semicircular protrusions