

Materials List for:

# Synthetic Spider Silk Production on a Laboratory Scale

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## Materials

Name	Company	Catalog Number	Comments
pBAD/TOPO ThioFusion Expression Kit	Invitrogen	K370-01	
FastBreak Cell Lysis Reagent, 10x	Promega	V857C	
Ni-NTA Agarose	Qiagen	30210	Includes instructions for buffers
ProteoSilver Silver Stain Kit	Sigma-Aldrich	PROTSIL1-1KT	
FreeZone Lyophilizer	Labconco	7960041	FreeZone 12Plus
Hexafluoroisopropanol (HFIP)	Sigma-Aldrich	52512	
Syringe	Hamilton	7657-01	250 µL
Needle	Hamilton	7780-01	26s Gauge, Blunt end removable needle
Syringe Pump	Harvard Apparatus	702208	11Plus
Digital Caliper	Carrera	CP5906	0-150 mm range
Stainless steel forceps	World Precision Instruments	501764	Mini Dumont #M5S
Motor	Nature Mill	7090529	12VDC, 2 rpm speed
Linear Actuator	Warner Electric	01-D024-0050-A06-LP-IP65	24VDC, 6 inch range
Dissecting microscope	Leica Microsystems	Leica MZ16	
Digital microscope camera	Leica Microsystems	DFC320	Software: Leica Application Suite v2.8.1
Vannas scissors	World Precision Instruments	500260	
Microtensometer	Aurora Scientific	310C	5N Dual-Mode System