Protein Extraction and Calibration Curve

If storing samples for more than 30 days, add a protease inhibitor to hemolymph extract.

• With the larva constrained and folded in half, exposing the dorsum, make an incision

through the cuticle at the proleg to extract hemolymph

Pipet the hemolymph into 100µL of PBS

Place the test tube into ice to slow oxidation and add inhibitor(s).

Ooole Store supernatant overnight at -80°C

Protein Quantification using Bradford Assay kit See: Pierce Bradford Protein Assay Kit.pdf

Prepare the Diluted Albumin (BSA) Standards

Final BSA concentration (mg/ml)	Volume (µl) and source of BSA		Volume of diluent (µl) O ₁ O ₂ O ₃	IsiV
7	Stock	300	0	A
2.1	Stock	375	125	B
I	Stock	325	375	0
27.0	vial B dilution	SLI	SLI	D
2.0	Vial C dilution	325	325	E
6.25	Vial E dilution	375	325	F
0.125	Vial F dilution	325	325	9
0.025	Vial G dilution	100	001	Н
0 = Blank		0	001	I

Standard Microplate Protocol (Working Range = 100-1500µg/mL)

o 3 Reps of each dilution

o Upto 7 treatments can fit on a plate

• Prepare three 4004 dilutions of each of your protein supernatant samples: 1X, 10X, 20X.

[diluting volume/#'x' volume] = diluted volume
 Ex: 100µl/1x = 30µl of unknown need to be added
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Mix each sample for 5 secs and Pipette 5μL of each standard or unknown sample into the appropriate microplate wells.

• Prepare Commassie reagent, allow it to equilibrate to room temperature (WR). 200µl

needed per sample plus 30% \circ (#stds + #unk)*(3rep)*(250) +(0.3*WR needed) = WR needed

• Add 200µL of the Coomassie Reagent to each well.

Cover plate with Press 'n Seal, mix with plate shaker for 30 seconds, then incubate at room temperature for 10 minutes.

Measure the absorbance at or near 595 nm on a plate reader.