

Cell lysis protocols for protein expression and purification using *E. coli* and ½” probe.

In addition, use the microtip for smaller volumes for cell lysis protocols in primary cardiomyocytes.



Protocol:

Sample Type: *E. Coli* bacterial cultures and cardiomyocytes

Sample Volume: *E. Coli* - 20-100mL and 0.5-2mL for cardiomyocytes

E. Coli we do not measure concentrations, however our primary cardiomyocyte samples are roughly 30 mg/mL.

Sonicator Amplitude Setting: 20-45%

Sonication Pulse Rate: *E. Coli* - 15 seconds on/45 seconds off

Total Sonication ON Time: 10 seconds for cardiomyocyte samples and 12-16 minutes for *E.Coli*

Sample Process Temperature: Process samples on ice

Customer Notes:

After sonication with *E. coli*, we are able to proceed with samples using column chromatography for the isolation of different proteins.

After sonication of our primary cardiomyocytes, we are able to proceed with samples used in western blotting for protein quantification.