

Cell Lysis

Example protocols and results are based on customer feedback.





Protocol:

Sample Type: Bacterial cell suspension in 8M urea 4% SDS

Sample Volume: 100µl

Sonicator Amplitude Setting: 50%

Sonication Pulse Rate: 10 seconds ON, 10 seconds OFF

Total Sonication ON Time: 5-10 minutes

Sample Process Temperature: 8C - controlled by Chiller

Customer Notes:

Bacterial cell samples can be fully lysed in 300 μ l 96-well PCR plates as well as processed in 200 μ l volumes in 1.7 ml EP tubes. We had no difference between samples processed using the Microplate Horn when compared to using a Q125 sonicator with single probe.

We recommend rotating the microplate a few times during the procedure to ensure all wells are processed evenly.

Note: The Microplate Horn was also applicable to resuspend proteins during metaproteomic sample processing. This replaces pipettes that work manually. 10% amplitude for approximately 5 seconds was sufficient. 1 ml acetone was used to resuspend around 500 μ g purified proteins. We also use 100-150 μ l 6M urea buffer to resuspend the 500 μ g proteins.

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