Zinc analysis was performed by ICP-MS with Cobalt used as an internal standard. Briefly a 250 ppb Cobalt solution (Agilent catalog# 5190-8346) 2% Nitric acid solution (trace metal grade) was prepared as the sample diluent. A 12-point serial dilution of zinc standard (Supelco HCO1344606) starting at 2,500 ppb was prepared in the 2% Nitric Acid with 250 ppb Cobalt IS. Bacterial broth samples (100 µL to 400 µL in volume) were diluted with the addition of 3.0 mL of the 2% Nitric Acid solution with Cobalt IS and allowed to sit at room temperature for 1 hour. All samples and standards were prepared in 12 mm polyethylene test tubes. The ICP-MS analysis was performed on an Agilent 7500ce ICP-MS instrument with an Argon plasma. Cobalt IS was monitored at 59 g/mol and the 64 g/mol isotope of Zinc was used for the analysis. The Zinc signal in the standards and samples was normalized to the Cobalt IS and the concentration determined using a standard curve with a linear regression curve fit (Microsoft Excel).