S2 Table. List of top 5 percent reduction in relative abundance for the top 20 bacterial orders in lactonase and surfactin treatment samples compared to the silica gel coating control samples.

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| --- | --- | --- | --- |
| **Top 5 orders** | **Lactonase vs control reduction** | **Taxonomy**  | **Surfactin vs control reduction** |
| *Pseudomonadales* | -59.7% | *Burkholderiales* | -51.9% |
| *Rhodospirillales* | -46.7% | *Gemmatimonadales* | -44.5% |
| *Burkholderiales* | -32.1% | *Myxococcales* | -36.3% |
| *Myxococcales* | -30.8% | *Acidimicrobiales* | -26.1% |
| *Xanthomonadales* | -28.5% | *Xanthomonadales* | -12.7% |