Fig. S1. Response surface graph for the effects of metal chlorides on lomofungin production by *S. lomondensis* S015 N1. (A) CaCl₂ (*x₁*) and FeCl₂ (*x₂*); (B) CaCl₂ (*x₁*) and MnCl₂ (*x₃*); (C) FeCl₂ (*x₂*) and MnCl₂ (*x₃*).

Fig. S2. Effects of different cultivation media on cell growth (A) and lomofungin production (B) by *S. lomondensis* S015 N1. Symbols: medium without metal chlorides (open square) and optimized medium with 0.04 mM CaCl₂, 0.33 mM FeCl₂ and 0.38 mM MnCl₂ (dark square). The error bars in the figure represent the standard deviations from three independent samples.
Fig. S3. Transcription levels of the four genes (i.e., afsR, fur, phzC and phzE) in *S. lomondensis* S015 N1 cells supplemented with different metal chlorides (0.1 mM CaCl₂, 0.3 mM FeCl₂ or 0.5 mM MnCl₂) on day 2.

For each gene, a cell culture without the addition of a metal chloride was regarded as the control with an expression level of 1.0 and the expression levels following the addition of a metal chloride have been displayed in fold increases relative to the control. The error bars in the figure represent the standard deviations from three independent samples. *Indicates statistical significance (*p* < 0.05) compared with the control culture.