

Supplementary Materials:

Figure S1: Growth of *A. chrysogenum* wild-type (WT) and high-yielding (HY) strains on agarized Czapek-N medium, supplemented with NaNO₃, or NH₄Cl, or urea, or L-Asn (L-asparagine), or L-Gln (L-glutamine) as sole nitrogen source at the concentration of 50 mM. Incubation for 20 days at 26 °C. Scale bar = 2 µm;

Figure S2: Growth phenotype of *A. chrysogenum* wild-type (WT) and high-yielding (HY) strains on agarized Czapek-N agar medium N medium, supplemented with NaNO₃, or NH₄Cl, or urea, or L-asparagine, or L-glutamine as sole nitrogen source at the concentration of 1 mM, or 10 mM, or 50 mM, or 100 mM after incubation for 20 days at 26 °C;

Figure S3: Expression dynamics of: (a) *cefP*; (b) *cefM*; (c) *cefT* genes in *A. chrysogenum* HY strain after the addition 5 mM 1,3-diaminopropane (DAP), or 5 mM spermidine (SPD). After 1, 24, 48, 72, 96, 120, and 144 h of fermentation on complex (CP) medium. Data are means ± SD, n=3. Statistical significance, *p ≤ 0.05, as compared with the control (strain, cultivated on medium without PAs additions).