

**Supplementary figure 4. Fumaric acid production by fermentation in glucose medium of *A. niger* strain N402 (white) and *ΔcitT* (dark gray).** The bar graphs represent fumarate produced (A) and the lines are glucose consumed of N402 (black) and Δ*citT* (light gray).

**Supplementary Figure 2.** Growth of *A. niger* strain N402 and *ΔcitT* on MM plates (20 mL/L 50% glucose, 20 mL/L 50x ASPA + N, 2 mL/L 1 M MgSO4, 1 mL/L 1000x Vishniac and 15 g/L agar) at 30°C for 3 days.

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