

**Fig. S1.** The concentration of plasma glucose in rats before the treatment of *G. lucidum* supplement high-cholesterol diets in oral glucose tolerance test (OGTT). The rats were injected with nicotinamide and streptozotocin for the induction of type 2 diabetes as described in **Materials and methods**. After 1 week, the blood samples were collected at 120 min after glucose administration. The concentration of plasma glucose was measured by enzymatic kit following the supplier’s instruction. Results are expressed as mean ± SEM for each group of rats (n=8). #p < 0.05 compared with the normal control group (NC)).

Table S1. Contents of mycelium and extracellular polysaccharides in the submerged culture of *Ganoderma lucidum* at 30oC for 7 days.

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| **Item** | **Mycelium (g/L)** | **Extracellular Polysaccharides (g/L)** |
| *Ganoderma lucidum*  | 6.56 ± 0.74 | 0.50 ± 0.08 |

Results are expressed as mean ± SD for *Ganoderma lucidum* (n=3).