CLAIMS

1. A composition effective in treating type 2 diabetes and dyslipidemia, comprising the following components:

(a)) Solid lipid nano berberine: 5-25%;

(b) Solid lipid nano cinnamonaldehyde: 1-15%;

(c) Glycerol monostearate: 5-15%;

(d) Soy bean oil: 60-80%;

(e) Lecithin: 5-10%; and

(f) Tween 80: 0.01-1%.

2. A process for preparing the composition of claim 1, comprising:

i) producing a solution of solid lipid nano berberine: solid lipid nano berberine is added to a reaction flask 1 containing 96% ethyl alcohol under heating at 40 -50^{O}C until the solid lipid nano berberine particles are completely dissolved; the solution is boiled and stirred at 70-80°C to obtain solid lipid nano berberine in the ethyl alcohol solvent; then, the mixture is transfered from the reaction flask 1 to a reaction flask 2;

ii) producing a bicomponent system of solid lipid nano berberine/cinnamonaldehyde: cinnamonaldehyde is added to the above solution of solid lipid nano berberine, followed by boiling and evenly stirring at 60-80°C, preferably 70°C; after about 50-70 minutes, preferably 60 minutes, the temperature is raised to 90-120°C, preferably 100°C, to remove the ethyl alcohol solvent, followed by boiling and evenly stirring at this temperature for about 100-130 minutes, preferably 120 minutes, to form a bicomponent system of solid lipid nano berberine/cinnamonaldehyde;

iii) producing a pre-composition: soy bean oil, lecithin, and Tween 80 are added to the reaction flask under heating at 90-100°C; the reaction mixture is evenly stirred at high speed until the formation of a transparent gel; then, the reaction is stopped to obtain a pre-composition; and

iv) obtaining a finished composition: the contents of the organic sol-gel components are adjusted to achieve the standard technical parameters, including the content of solid lipid nano berberine and the content of solid lipid nano cinnamonaldehyde, the formation of smart gel at gel resolution temperature comprising gelation at normal temperature (room temperature) or storage temperature (below 24°C).