CLAIMS

What is claimed is:

1. Use of a *Hericium erinaceus* mycelium active substance in the manufacture of a ~~composition~~ medicament for preventing or treating age-related macular degeneration~~retinopathy~~, wherein a preparation method of the *Hericium erinaceus* mycelium active substance includes the following steps:

(a) cultivating a *Hericium erinaceus* mycelium on a plate medium at 15-35°C for 7-15 days;

(b) inoculating the *Hericium erinaceus* mycelium in step (a) into a flask and culturing the mycelium at 15-35°C and pH 2-8 for 3-5 days; ~~and~~

(c) inoculating the *Hericium erinaceus* mycelium in step (b) into a fermentation tank and culturing the mycelium by stirring at 15-35°C and pH 4.5-5.5 for 7-15 days to obtain a *Hericium erinaceus* mycelium fermentation liquid containing the *Hericium erinaceus* mycelium active substance;

(d) freeze-drying and then grinding the *Hericium erinaceus* mycelium fermentation liquid to obtain a *Hericium erinaceus* mycelium lyophilized powder containing the *Hericium erinaceus* mycelium active substance;

(e) extracting the *Hericium erinaceus* mycelium lyophilized powder with ethanol twice to obtain a *Hericium erinaceus* mycelium extract containing the *Hericium erinaceus* mycelium active substance; and

(f) drying the *Hericium erinaceus* mycelium extract to obtain the *Hericium erinaceus* mycelium active substance.

~~2. The use of claim 1, wherein the preparation method of the *Hericium erinaceus* mycelium active substance further includes a step (d): freeze-drying and then~~

~~grinding the *Hericium erinaceus* mycelium fermentation liquid to obtain a *Hericium erinaceus* mycelium lyophilized powder containing the *Hericium erinaceus* mycelium active substance.~~

~~3. The use of claim 2, wherein the preparation method of the *Hericium erinaceus* mycelium active substance further includes a step (e): extracting the *Hericium erinaceus* mycelium lyophilized powder with a solvent to obtain a *Hericium erinaceus* mycelium extract containing the *Hericium erinaceus* mycelium active substance.~~

~~4. The use of claim 3, wherein the preparation method of the *Hericium erinaceus* mycelium active substance further includes a step (f): drying the *Hericium erinaceus* mycelium extract to obtain the *Hericium erinaceus* mycelium active substance.~~

~~5. The use of claim 3 or 4, wherein the solvent in the step (e) is ethanol, and the *Hericium erinaceus* mycelium lyophilized powder is extracted twice with ethanol.~~

~~6.~~2. The use of claim 1, wherein the cultivation in the flask in the step (b) is shake flask cultivation with a rotation speed of 10-250 rpm.

~~7. The use of claim 1, wherein the retinopathy is macular degeneration.~~

~~8.~~3. The use of claim 1, wherein a gas is further fed in the fermentation tank in the step (c), and the gas includes air, oxygen, carbon dioxide, helium or a combination thereof; pressure of the fermentation tank is 0.5-2.0 kg/cm^2, and a gas flow rate is 0.5-1 VVM.

~~9.~~4. The use of claim 1, wherein the ~~composition~~ medicament is a pharmaceutical composition, and the pharmaceutical composition further comprises a pharmaceutically acceptable carrier, an excipient, a diluent or an adjuvant.

~~10. The use of claim 1, wherein the composition is a food additive.~~

~~11.~~5. The use of claim 1, wherein the medicament ~~composition~~ is to be ~~administrated~~ administered orally or as a drop or a suppository.