3-3-9. The Hypolipidemic Effect of *Paecilomyces tenuipes* on Rats Fed with High Fat-Cholesterol Diet

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The present study examined the hypolipidemic activity of *Paecilomyces tenuipes* (PT). Eight wks-old male Sprague-Dawley rats were fed one of six diets, a reference diet with no cholesterol added, a high fat (17 g/100 g)-high cholesterol (1 g/100 g) diet and a HC diet supplemented with 0.5, 1, 3 or 7 % PT for 30 days. The plasma concentration of total lipid, total cholesterol, LDL-cholesterol and the atherogenic index were significantly lower in PT supplemented groups than in the high fat and high cholesterol diet group and showed almost similar values to normal diet group. HDL-cholesterol concentration and the ratio of HDL-cholesterol to total-cholesterol increased significantly in 1 and 7% of PT supplemented groups compared to high fat-high cholesterol diet. The plasma concentration of triglycerides were not affected by addition of PT. In conclusion, *Paecilomyces tenuipes* can alter plasma lipid profiles in rats fed with high fat and high cholesterol diet.