

**Effect of Glucomannan, Polyman and Whey-Calcium
Compound on the Blood Glucose and Serum Cholesterol in
Rats Fed a High Sucrose and High Cholesterol Diet**

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ABSTRACT

This study was performed to investigate the effects of glucomannan, polyman and whey-calcium compounds on the level of blood glucose and serum cholesterol in rats(Female Spraque-Dawley) fed on high sucrose diet(70% : HSD)and high cholesterol(1.0% : HCD) for 4 weeks. The groups were divided into four groups; normal diet(ND), high cholesterol diet(HCD), high cholesterol diet + glucomannan-polyman-whey calcium (HCDGPW) and high cholesterol diet + glucomannan(HCDG). 1. The intake quantity and weight gain see with HCD> HCDG> ND> HCDGPW and the intake quantity and weight gain in HCDGPW were decreased than in other groups. 2. The cholesterol gain see with HCD> HCDG> HCDGPW> ND and the HCD with serum cholesterol in HCDGPW were decreased than in other groups. 3. The blood glucose gain see with the HCD> HCDG> HCDGPW> ND and the blood glucose in HCDGPW was decreased than other groups.

Key Words □ Weight, Serum cholesterol, Blood glucose, Glucomannan, Polyman, Whey calcium