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## EFFECT OF DIFFERENT CHROMATOGRAPHIC FRACTION AQUEOUS AND ALCOHOLIC EXTRACTS OF TEUCRIUM POLIUM AERIAL PARTS ON THE INSULIN AND GLUCOSE CONTENT IN HYPERGLYCEMIC RATS

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**ABSTRACT**

In recent studies *Teucrium polium*(T. polium) was known as a hypoglycemic plants. But further research is needed to better understand the effect of *Teucrium polium* and biological active part of it. The purpose of this investigation is to examine the effect of different chromatographic fractions of aqueous and alcoholic extract of this plant on the level of insulin secretion and glucose content in hyperglycemic rat model. Also, our aim is determination of biological active fraction of aqueous and alcoholic extract of this plant. This study was carried out on the 36 rats. Hyperglycemia induced by administrating of 50 mg/kg alloxan intraperitoneally and glucose level was monitored for hyperglycemic status. Hyperglycemic was confirmed by blood glucose measurement. In each experiment 100 grams of *Teucrium polium* aerial parts powder were boiled with 2 Liter of distilled water for 36 h. The decoction preparation was then filtered through a gauze cloth followed by filtration through filter paper. The extract was evaporated to one-fifth of its original volume and kept at 4°C until its use. Determination of different fraction aqueous extract effect of *Teucrium polium* on glucose level and insulin secretion was carried out. Blood was collected from the tail of the rats. Then glucose and insulin level was evaluated. The hyperglycemic animals showed significant decrease in the blood glucose level in rats administered with fourth fraction compared with other fractions. Administration of fourth fraction *Teucrium polium* aerial parts extract cause increase in insulin levels in alloxan-treated rats. Results suggest that treatment of fourth fraction *Teucrium polium* aerial parts extract may be useful in preventing the increase of glucose level in hyperglycemic rats. The interesting phenomenon of our results has shown that fourth fraction given parenterally possesses a hypoglycemic effect in alloxan hyperglycemic rats. Fourth fraction was found biological active and to be responsive to glucose challenge as evidenced by increase in insulin secretion.

**Keywords:** Aerial parts, Chromatography, Biological active, Glucose, Insulin, *Teucrium polium***INTRODUCTION**

With growing research interest in the use of plant materials to treatment of diabetic complication. Conflicting data have been reported regarding the role *Teucrium polium* in diabetic subjects. In this respect, some of investigators reported that *T. polium* extract did not show effect on blood glucose content in patients[1]. But, this function of *T. polium* extract in glucose level was challenged by other studies. In contrast to mentioned study, as reported by many other investigators *T. polium* extract caused reduction in blood glucose level administration [2]. Despite this apparently

conflicting effect several experimental studies reported that *T. polium* has antioxidant activity and hypoglycemic effects significantly improved survival of animals [3]. Previous studies have revealed that there is not any hypoglycemic effect of *T. polium*. A number of recent studies have reported that the bioactive metabolite of the effective substance of *Teucrium* has hepatotoxicity effects [4]. Previous studies have been reported that *Teucrium* play an important role in hypoglycemic status [5-7]. There is evidence that *Teucrium* extract effects on pancreatic function in diabetic rats[8]. Several experimental studies have investigated the *Teucrium* polium

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