



Journal

*J. Biol. Chem.
Environ. Sci., 2017,
Vol. 12(3): 71-83*

<http://biochemv.blogspot.com.eg/>

EFFECT OF AQUEOUS EXTRACTS OF *HIBISCUS ROSA SINENSIS* (HRS) LEAVES AND POMEGRANATE (*PUNICA GRANATUM*) PEELS ON REDUCING BLOOD GLUCOSE LEVEL IN MALE ALBINO RATS

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ABSTRACT

The effect of aqueous extracts treatment of aqueous extract of *Hibiscus rosa sinensis* (AEHRS) leaves (250, 500 mg/kg body weight and diabetic rats treated with (AEHRS) leaves 750 mg/kg bw., aqueous extract of pomegranate (*Punica granatum*) peels (AEPP) (100, 200 mg/kg body weight) and mixture of both (125/125, 225/225, 350/350 and 400/400 mg/kg body weight) on blood glucose level of rats for 7, 14 and 21 days was evaluated. Male albino rats were randomly divided into twelve groups of six animals each. The first group served as normal control (NC) and the second group treated with streptozotocin (STZ) only induced diabetic rats (Diabetic control- DC), daily oral treatment with extracts for 21 days was established except for (NC) and (DC) groups. The determination of blood glucose level was estimated from serum by using GOD-POD kit method. AEHRS leaves, AEPP and mixture of both administrated to male albino rats were found to have significant hypoglycemic role when compared with the normal control (NC) and diabetic control (DC).

Key words: Blood glucose level, aqueous extracts, antidiabetic activity, *Hibiscus rosa sinensis*, Pomegranate (*Punica granatum*) peels