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Title: Effect of Potassium Bromate on Liver and Blood Constituents of Wistar Albino Rats

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Abstract: Twenty four Wistar albino rats were divided into 4 groups and treated orally with potassium bromate at doses of 0, 50, 100 and 200 mg kg⁻¹ body weight (b.wt.) for 21 days. Rats received 200 mg kg⁻¹ b.wt. died within 18 days. A significant reduction in Hb, PCV and MCHC values were observed in animals received 200 mg kg⁻¹ b.wt. in the second week while no changes occurred in the groups treated with 50 and 100 mg kg⁻¹ b.wt. The activity of alanine transaminase (ALT) was significantly increased in rats received 100 and 200 mg kg⁻¹ b.wt. of potassium bromate from the first week, while total protein and albumin were significantly decreased from the first week in animals treated with 200 mg kg⁻¹ b.wt. and the second week at the dose 100 mg kg⁻¹ b.wt. Histologically liver degeneration and haemorrhage was evident in the groups treated with 100 and 200 mg kg⁻¹ b.wt. The dose of 50 mg kg⁻¹ b.wt. did not cause any changes compared to the control.

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