



## Pharmacokinetic Comparison between Healthy and Fatty Liver Rats after Oral Administration of Hawthorn Leaf Extract

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**SUMMARY.** To compare the pharmacokinetics of the hawthorn leaf extract (HLE) on healthy and fatty liver rats, a sensitive and specific HPLC method was developed and validated to determine the six compounds such as chlorogenic acid (CHA), vitexin-4''-O-glucoside (VG), vitexin-2''-O-rhamnoside (VR), vitexin (VIT), rutin (RUT), hyperoside (HP) in healthy and fatty liver rat plasma after orally administering HLE continuously for one month, and blood samples were respectively collected after dosed at first day, half month and one month. Results indicated that the pharmacokinetic profile of the five compounds except for CHA presented the remarkable differences between the healthy and pathological model groups in the process of treating fatty liver rat.

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**KEY WORDS:** Fatty liver, HPLC, Hawthorn leaf extract (HLE), Pharmacokinetics, Rat plasma.

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