

Study on the sedative and hypnotic effects of water extracts of eucommia male flowers

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Objective: Study the sedative and hypnotic effects of water extracts of Eucommia male flowers with different dose. Confirm the effective part of Eucommia male flowers and investigate the effective dosage of it.

Methods: Extract active components in Eucommia male flowers with the water. We investigated the effects on spontaneous activity of mice, the synergy operation with pentobarbital sodium, and anticonvulsant effects of water extracts of Eucommia male flowers with different dose.

Results: Water extracts of Eucommia male flowers could induce mice to sleep or significantly inhibit the spontaneous activity; enhance the amount of sleeping mice with pentobarbital sodium of subthreshold dose, prolong the sleeping time and shorten the sleep latency of pentobarbital sodium of superthreshold dose; effectively reduce the eclamptic rate of mice and significantly prolonged the convulsions latency.

Conclusion: Water extracts of Eucommia male flowers possess obviously sedative and hypnotic effects in mice.

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