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**Title of abstract in Arial font: Study on Ethanol Extraction Process of Gynostemma pentaphyllum Saponin**

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**Abstract:**

**Background/Objective:**[To obtain the best extraction plan for gypenosides, the influence of ethanol concentration, solid-liquid ratio, alcohol extraction temperature, and alcohol extraction time on the extraction rate was studied.]

**Methods:**[Single-factor experiments were conducted on ethanol concentration, extraction temperature, extraction time, and solid-liquid ratio under ethanol extraction conditions. The results of the single-factor experiments were analyzed, and response surface experiments were conducted on these influencing factors. Based on the results of the response surface experiment, the ethanol extraction process for gypenosides was optimized. ]

**Results:**[The results showed that the optimal extraction conditions were a 70% ethanol concentration, a solid-liquid ratio of 1:8, an extraction temperature of 60°C, and an extraction time of 50 minutes. ]

**Conclusion:**[Under these conditions, the ethanol extraction rate of gypenosides was the highest.]

**Keywords:**[Gynostemma gynostemma; Ethanol extraction; Response surface test.]