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Title: The toxicity and the acaricidal mechanism against *Psoroptes cuniculi* of the methanol extract of *Adonis coerulea* Maxim

Author: Xiaofei Shang Xiao Guo Feng Yang Bing Li Hu Pan
Xiaolou Miao Jiyu Zhang



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The toxicity and the acaricidal mechanism against *Psoroptes cuniculi* of the methanol extract of *Adonis coerulea* Maxim.

Xiaofei Shang¹, Xiao Guo¹, Feng Yang, Bing Li, Hu Pan, Xiaolou Miao*, Jiyu Zhang*

Key Laboratory of New Animal Drug Project of Gansu Province, Key Laboratory of Veterinary Pharmaceutical Development of Ministry of Agriculture, Lanzhou Institute of Husbandry and Pharmaceutical Sciences, Chinese Academy of Agricultural Sciences, Lanzhou 730050, PR China

*Corresponding author; Tel.: +86-931-2115262

E-mail address: shangxf928@126.com

¹First co-author

Highlights:

First report on the acaricidal mechanism of the methanol extract of *Adonis coerulea* Maxim. against *Psoroptes cuniculi*.

Adonis coerulea Maxim. could change the activity of some protective enzymes in mites.

Apigenin, luteolin and isoorientin are the primary compounds of the methanol extract of *Adonis coerulea*; however, their acaricidal activities are weak.

The methanol extract of *Adonis coerulea* maybe used as an environmentally safe

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