

论文  
黄連及厚樸抗菌作用的研究(一)黄連及厚樸在試管內的抗菌作用

廖延雄  
西北畜牧兽医学院兽医系细菌科

摘要:

关键词:

STUDIES ON THE ANTIBACTERIAL ACTIONS OF HUANG-LIEN AND HOU-P'O Part I.  
The Antibacterial Actions of Huang-lien and Hou-p'o *in Vitro*

Liao Yen-shyong

Abstract:

The antibacterial actions of Huang-lien(the root of *Coptis chinensis*) and Hou-p'o(the bark of *Magnolia hypoleuca*) have been studied. The water soluble parts of Huang-lien and Hou-p'o showed more marked antibacterial activity against *Bacillus anthracis*, *Clostridium welchii*(isolated from a case of lamb dysentery), *Micrococcus pyogenes* var. *aureus*, *Erysipelothrix rhusiopathiae* and *Pasteurella multocida* (isolated from yak), but showed slight activity against *Escherichia coli* and no activity against *Pseudomonas aeruginosa*. The antibacterial activities of these two drugs were found to be stable to heat treatment at 121 for 30 minutes. The active antibacterial substance of Huang-lien was apparently associated with P<sub>2</sub> (corresponding to berberine hydrochloride), a substance precipitated by 1% HCl from the water extract of Huang-lien. The antibacterial action of Huang-lien against *Bacillus anthracis* was shown to be slightly affected in the presence of animal serum. A dark-brown substance precipitated by 1% HgCl<sub>2</sub> from the aqueous solution of Huang-lien, also showed antibacterial action as P<sub>2</sub>.

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作者简介:

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