



# Agricultural Journals

*Czech Journal of*

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# **Czech J. Food Sci.**

## **Ertürk Ö.:**

## **Antibacterial and**

# antifungal effects of alcoholic extracts of 41 medicinal plants growing in Turkey

Czech J. Food Sci., 28 (2010): 53-60

The antibacterial and antifungal activities of crude ethanolic extracts of 41 traditional medicinal plant species belonging to 26 families were tested against four bacteria and two fungi: *Bacillus subtilis*, *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Candida albicans*, and *Aspergillus niger*. Of the 41 plants tested, 39 showed antimicrobial activity against one or more species of microorganisms. While the crude extracts from *Nigella arvensis* did not show antimicrobial activity against the test microorganisms, *Pistacia lentiscus* showed only antifungal activity against *A. niger*. The most active antimicrobial plants were *Cuminum cyminum*, *Jasminium officinale*, *Thymus capitatus*, *Viscum album*, *Tanacetum sorbifolium*, *Pimpinella anisum*, *Galega officinalis*, *Liquidamber orientalis*, *Rhus coriaria*, *Alnus glutinosa*, *Pimental*

*officinalis*, *Achillea coarctata*, and *Cameli sinensis*.

**Keywords:**

antimicrobial activity; medicinal plants;  
*Bacillus subtilis*; *Staphylococcus aureus*;  
*Escherichia coli*; *Pseudomonas*  
*aeruginosa*; *Candida albicans*;  
*Aspergillus niger*

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