
Title: Study on the invitro antimicrobial activity of *Achillea Millefolium* and *Equisetum arvense*.

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Abstract: Ethyl acetate, chloroform and aqueous extracts of *Achillea millefolium* and *Equisetum arvense* were screened for their antibacterial and antifungal activity against a range of microorganisms by paper-disk agar diffusion method. A gram positive bacterium namely *Staphylococcus aureus*, two gram negative bacterium namely *Pseudomonas aeruginosa* and *Escherichia coli* and two fungi namely *Candida albicans* and *Aspergillus niger* were tested .The results showed a different extent of growth inhibition activity against the selected microorganisms. The most active antibacterial extracts were the chloroform extracts of *Achillea millefolium* against *Staphylococcus aureus* (15mm zone diameter of inhibition). The data also indicated that ethyl acetate extracts of *Equisetum arvense* have considerable in vitro activity against *Staphylococcus aureus* (11mm zone diameter of inhibition). According to the results chloroform extracts of *Achillea millefolium* had a partial activity against *Staphylococcus aureus*. The aqueous extracts of two plants did not inhibit the growth of all the selected micro organisms.

Key words: Antimicrobial activity, *Achillea millefolium*, *Equisetum arvense*.

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Achillea

Equisetum arvense millefolium

Phytochemical targeting

Ethno-directed

Chemotaxonomic approach.

Specific plant parts .()

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(WHO)

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Random approach :

Equisetum Achillea millefolium

arvense

in vitro

Blue HL 36E, Japan
Gallenkamp, UK M, USA
Heidolph, Germany
Moulinex, France
And, Heidolph, Germany
Japan
Gibco, Scotland
Merck, Germany
Difco, Difco, USA
High USA
Merck, media, India
.Germany

ATCC 8739
ATCC 6538
ATCC 9027
ATCC 10231
ATCC 16404

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g/dl	(ml)	(g)		
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		/		
		/		
		/		
		/		
/		/		

°C

in vitro

°C

(ATCC 6538)

ATCC 8739)

(ATCC 9027

ATCC 16404)

(ATCC 10231

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USP

°C

°C

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		mm			mm	

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