

## POTENTIAL USE OF SOME TRADITIONAL PLANTS-EXTRACTS AS BIO-PROTECTANT AGAINST *XANTHOMONAS CITRI* SUB SP *CITRI*

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**ABSTRACT :** The thirty seven plants samples were bio-assessed by agar diffusion methods against *Xanthomonas citri* sub sp *citri*, a causal organism of citrus canker. The various parts of *Terminalia belerica* (bark, fruit, leaf and stem) have shown more or less equal marvelous inhibitory effect against the test bacterium followed by leaf extracts of *Mimosa hamata* against the bacterium growth. The fruit extracts of *Terminalia chebula* has shown strong inhibitory activity against *Xanthomonas citri*. The combined extracts of bark extracts of *Terminalia belerica* and leaf extracts of *Mimosa hamata* in general showed a strong enhancement in activities over the individual extracts of bark extracts of *Terminalia belerica* and leaf extracts of *Mimosa hamata* against the bacterium growth respectively. Some of the other plants such as *Cassia siamea*, *Nerium oleander* and *Thevetia nereifolia* also showed the inhibitory effect against the test bacteria.

**Key words :** *Xanthomonas citri*, Antibacterial activity, Plants-extracts, Phytochemicals.