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Extraction and antibacterial screening of mixture of *Acalypha indica* Linn and *Tridax procumbens* Linn

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Aim: In the present investigation, antibacterial activity of ethanolic extract of mixture of the *Acalypha indica* and *Tridax procumbens* were studied.

Materials & Methods: The antibacterial activity was assessed by cup and plate method and filter paper disc method by using Muller Hinton agar medium. The zone of inhibition of the concentrates of mixture of *Acalypha indica* and *Tridax procumbens* were compared with each other. The present investigation says that, as the concentration increases the zone of inhibition also increases. The antibacterial activity of the mixtures of *Acalypha indica* and *Tridax procumbens*, alcoholic extract was assessed by using cup and plate method.

Results: The 2 mg/ml of the mixture produce 3.5 mm in *Staphylococcus aureus* and *E.Coli*. The 4 mg/ml of the mixture produce 4 mm in *Staphylococcus aureus* and 4.5 mm of *E.Coli*. 8 mg/ml of the mixture produce 9.5 mm of *Staphylococcus aureus* and 10.5 mm of *E.Coli*. Hence, the above finding says that 8 mg/ml mixture of *Acalypha indica* and *Tridax procumbens* plant extract shows good activity. The antibacterial activity of the mixtures of *Acalypha indica* and *Tridax procumbens*, alcoholic extract was assessed by using filter paper disc method. 2 mg/ml of the mixture produce 3.5mm in *Staphylococcus aureus* and *E.Coli*. The 4mg/ml of the mixture produce 4mm in *Staphylococcus aureus* and 4.5mm of *E.Coli*. 8mg/ml of the mixture produce 10.5mm of *Staphylococcus aureus* and 9.5mm of *E.Coli*. Hence the above findings says that 8 mg/ml mixture of *Acalypha indica* and *Tridax procumbens* plant extract shows good activity.

Conclusion: The findings confirm that the traditional therapeutic claims for this plant, in near future surely be able to replace the conventional anti-bacterial agents to which there is increased incidence of drug interactions and the study suggests that this plant is promising for development of phytomedicine for antibacterial properties.

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