

(54) Title of the invention : ACHYRANTHES ASPERA LEAF EXTRACT FOR TREATMENT OF OVARIAN DYSFUNCTION

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(57) Abstract :

The present invention provides a leaf extract of *Achyranthes aspera* for treating ovarian dysfunction, wherein the diluting solvent of extract is 0.25% carboxy methylcellulose. The leaf extract of *Achyranthes aspera*, wherein the route of administration of extract in Letrozole induced PCOD rats is oral route and the test dose used in Letrozole induced PCOD rats is 200 mg/ml, 400 mg/ml and 600mg/ml solution. The leaf extract of *Achyranthes aspera*, wherein after treatment with 200mg/kg *Achyranthes aspera* extract in Letrozole induced PCOD rats, estrogen 13.19±0.7151, progesterone 30.12±0.87 and testosterone 11.30±0.9081; wherein after treatment with extract of 400mg/kg, estrogen 11.30±0.4928, progesterone 39.62±1.924 and testosterone 9.46±0.7446 and after treatment with extract of 600mg/kg in Letrozole induced PCOD rats, estrogen 9.075±0.2253, progesterone 42.47±1.904 and testosterone 6.36±0.5181. The process for the preparation of leaf extract of *Achyranthes aspera*, comprising of collecting and thoroughly washing leaves of *Achyranthes aspera*; drying in shade leaves on the newspaper for 10 days; powdering the dried leaves in grinder and weighing; extracting the plant material using solvent by Soxhlet extractor at a speed of 3 cycles/1 hour for 16 hours; recovering solvent by simple distillation to obtain crude drug extract. The leaf extracts of *Achyranthes aspera* show polycystic ovarian disease control in Wistar albino female rats.

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