

Biological Activities for Extracts of Damiana (*Turnera diffusa*)

Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Entire Plant Malaysia	Toxicity Assessment (quantitative)	MEOH-H ₂ O(1:1) Ext	IP Mouse	LD ₅₀ =375.0 mg/kg			A01890
Root Not Stated	Uterostimulant Activity	Not Stated	Not Stated	Not Stated	Active		BM1024
Not Stated Brazil	Hematology Effects	ETOH Ext	IP Mice	Not Stated	Inactive Active	No changes in white or total blood cell counts in peripheral blood when ETOH extract administered with LPS. Reduced number of total leukocytes seen in peritoneal fluid when ETOH extract administered with LPS.	BM1020
Not Stated Italy	Libido-enhancing Effect	H ₂ O Ext	Oral Rat Male	0.25 ml/kg 0.50 ml/kg 1.0 ml/kg 1 ml/kg	Inactive Inactive Inactive Inactive	Copulatory performance of sexually potent rats. No effect on locomotor activity.	BM1019
Not Stated Italy	Libido-enhancing Effect	H ₂ O Ext	Oral Rat Male	0.25 ml/kg 0.50 ml/kg 1.0 ml/kg 1 ml/kg	Active Active Active Active	Copulatory performance of sexually sluggish/impotent rats. Increased the percentage of rats achieving ejaculation and reduced mount, intromission and ejaculation latencies, post-ejaculatory interval and intercopulatory interval.	BM1019
Not Stated Mexico	Hypoglycemic Activity	ETOH-H ₂ O Ext	IP Mice	Not Stated	Inactive		BM1016
Not Stated Mexico	Hypoglycemic Activity	Traditional Preparation	IG Rabbit	Not Stated	Active	Decreased the hyperglycemic peak and/or the area under the glucose tolerance curve.	BM1021
Not Stated Mexico	Hypoglycemic Activity	Not Stated	Oral Mice IP Mice	Not Stated	Active Active	vs. alloxan-induced diabetes. vs. alloxan-induced diabetes.	BM1025
Not Stated Brazil	Anti-inflammatory Activity	Hydroalcoholic Ext H ₂ O Ext Ethyl acetate Ext ETOH Ext ETOH Ext ETOH Ext	Rats & Mice	Not Stated	Active Inactive Active Active Active	vs. carrageenan-induced edema. vs. carrageenan-induced edema. vs. carrageenan-induced edema. vs. carrageenan-induced edema. vs. cotton pellet granuloma. Inhibited prostaglandin E ₂ .	BM1020

GI = Gastric Intubation IG = Intragastric IP = Intraperitoneally IV = Intravenously SC = Subcutaneously IM = Intramuscular

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Not Stated Brazil	Anti-inflammatory Activity	ETOH Ext	Rats & Mice	Not Stated	Active Inactive Active	vs. histamine, 5-hydroxytryptamine and prostaglandin E2-induced vascular permeability. vs. bradykinin-induced vascular permeability. Cyclooxygenase II inhibition.	BM1020
Not Stated Brazil	Anti-inflammatory Activity	ETOH Ext	Mice	Not Stated	Active	vs. croton oil-induced ear edema.	BM1020
Not Stated Brazil	Analgesic Activity	ETOH Ext	Rats & Mice	Not Stated	Inactive	vs. acetic acid induced writhing.	BM1020
Leaf + Stem Jamaica	Spasmogenic Activity	ETOH (95%)Ext H2O Ext	Guinea Pig IP Guinea Pig	3.3 ml/liter 33.0 ml/liter	Active Active	Ileum. Ileum.	A03360
Leaf + Stem Jamaica	Vasodilator Activity	ETOH (95%)Ext	Rat	3.3 ml/liter	Active	Hind quarter(isolated)	A03360
Flowers Cuba	Inotropic Effect Positive	Hot H2O Ext	Guinea Pig	320.0 microliters	Inactive	Atrium.	M29843
Flowers Cuba	Bronchodilator Activity	Hot H2O Ext	IV Guinea Pig	1.5 ml	Inactive		M29843
Leaf Denmark	Thermogenic Activity	Not Stated	Oral Human	Not Stated	Active	In combination with guarana and yerba mate it prolonged gastric emptying time, reduced body weight and maintained weight over 12 months.	BM1018
Not Stated USA	Progesterone Receptor Binding	Not Stated	Cell Culture	Not Stated	Active	In human breast cancer cells damiana bound to progesterone receptors, having either a neutral or antagonist activity.	BM1022
Not Stated	CNS-depressant Activity	ETOH Ext	Not Stated	Not Stated	Active		BM1026
Entire Plant Malaysia	Antitumor Activity	MEOH-H2O(1:1) Ext	IP Rat	1.0 gm/kg	Inactive	Sarcoma(yoshida asc)	A01890

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Flowers Thailand	Antibacterial Activity	ETOH (95%)Ext ETOH (95%)Ext ETOH (95%)Ext ETOH (95%)Ext ETOH (95%)Ext H2O Ext H2O Ext H2O Ext H2O Ext H2O Ext	Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate Agar Plate	100.0 mg 100.0 mg 100.0 mg 100.0 mg 100.0 mg 20.0 mg 20.0 mg 20.0 mg 20.0 mg 20.0 mg	Inactive Inactive Inactive Inactive Inactive Inactive Inactive Inactive Inactive Inactive	<i>Bacillus subtilis</i> <i>Escherichia coli</i> <i>Salmonella typhosa</i> <i>Shigella dysenteriae</i> <i>Staphylococcus aureus</i> <i>Bacillus subtilis</i> <i>Escherichia coli</i> <i>Salmonella typhosa</i> <i>Shigella dysenteriae</i> <i>Staphylococcus aureus</i>	P00004
Flowers Thailand	Antiyeast Activity	ETOH (95%)Ext H2O Ext	Agar Plate Agar Plate	100.0 mg 20.0 mg	Inactive Inactive	<i>Candida albicans</i> <i>Candida albicans</i>	P00004
Flower, leaf, seed, stem India	Larvicidal Activity	Pet Ether Ext	Not Stated	80.0 ppm	Active Active Active	<i>Aedes aegypti</i> <i>Anopheles stephensi, larvae</i> <i>Culex quinquefasciatus</i>	T09890

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