

## Biological Activities for Extracts of Pedra Hume Caá (*Myrcia salicifolia*)

Part – Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Leaf Origin Not Stated	Antihyperglycemic Activity	Infusion	Human Adult Oral	Not Stated	Active	These data are from a review article.	J12034
Leaf Brazil	Antihyperglycemic Activity	Infusion	Human Adult Oral	3.0 g leaf/day.	Inactive	Tested In Type II diabetic patients over 56 days.	M29305
Leaf Brazil	Antihyperglycemic Activity	MeOH Ext	IG Mouse	1.0 g/kg	Inactive	vs. alloxan-induced hyperglycemia.	H21579
Leaf Brazil	Antihyperglycemic Activity	MeOH Ext	IG Rat	250.0 mg/kg	Active		H21579
Leaf Brazil	Insulin Modifying Effect	Hot H2O Ext	Oral Rat	60 mg dried leaf or 7.5 mg powder	Inactive	No effect on serum or pancreatic insulin.	AR1002
Leaf Brazil	Glucose Absorption Inhibition	Hot H2O Ext	Oral Rat	60 mg dried leaf or 7.5 mg powder	Active	Inhibited intestinal absorption of glucose.	AR1002
Leaf Brazil	Glucose Absorption Inhibition	Not stated	Rat (ileum)	Not stated	Active	Inhibited the absorption of glucose.	AR1001
Leaf Brazil	Aldose Reductase Inhibition	MeOH Ext	Not Stated	LC50: 1.08 mcg/ml	Active		H21579
Leaf Brazil	Maltase Inhibition	MeOH Ext	Not Stated	LC50: 225.0 mcg/ml	Active		H21579
Leaf Brazil	Sucrase Inhibition	MeOH Ext	Not Stated	LC50: 128.0 mcg/ml	Active		H21579
Leaf Brazil	Antiobesity Agent	Hot H2O Ext	Oral Rat	60 mg dried leaf or 7.5 mg powder	Inactive	No effect on the weight of epididymal and retroperitoneal adipose tissue.	AR1002
Leaf Brazil	Antiobesity Agent	Hot H2O Ext	Oral Rat	60 mg dried leaf or 7.5 mg powder	Inactive	No effect on the weight of epididymal and retroperitoneal adipose tissue.	AR1002

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

## Biological Activities for Compounds of Pedra Hume Caá (*Myrcia salicifolia*)

Compound	Activity Tested For	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Guaijaverin	Aldose Reductase Inhibition	Cell Culture (human lens)	IC50=2.5x10(-6) M	Active		AR1003
Quercitrin	Aldose Reductase Inhibition	Cell Culture (human lens)	IC50=1x10(-6) M	Active		AR1003
Quercitrin	Aldose Reductase Inhibition	Cell Culture (rat lens)	Not stated	Active		AR1005
Myricitrin	Aldose Reductase Inhibition	Cell Culture (rat lens)	Not stated	Active		AR1005
Quercitrin	Aldose Reductase Inhibition	Cell Culture (rat lens)	IC50=0.15 microM	Active		AR1006
Guaijaverin	Aldose Reductase Inhibition	Cell Culture (rat lens)	IC50=0.18 microM	Active		AR1006
Desmanthin	Aldose Reductase Inhibition	Cell Culture (rat lens)	IC50=0.082 microM	Active		AR1006
Quercitrin	Xanthine Oxidase Inhibition	Not stated	Not stated	Active		AR1004
Myricitrin	Xanthine Oxidase Inhibition	Not stated	Not stated	Active		AR1004

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