

Biological Activities of Catuaba (*Erythroxylum catuaba*)

Part – Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Bark Brazil	Cytotoxic Activity	EtOH (100%) Ext	Cell Culture	Not stated	Active	LEUK-I1210.	L11339
Bark Brazil	Analgesic Activity	Hydro-alcoholic Ext	IG Mouse	200.0 mg/kg	Active	vs.acetic acid-induced writhing.	J13503
Bark Brazil	Analgesic Activity	Hydro-alcoholic Ext	IG Mouse	200.0 mg/kg	Active	vs.hot plate method.	J13503
Bark Brazil	Analgesic Activity	Hydro-alcoholic Ext	IG Mouse	200.0 mg/kg	Active	vs.tail flick response to radiant heat.	J13503
Bark Brazil	Analgesic Activity	Hydro-alcoholic Ext	IG Mouse	200.0 mg/kg	Active	vs.capsaicin-induced algesia.	J13503
Bark Brazil	Analgesic Activity	Hydro-alcoholic Ext	IG Mouse	200.0 mg/kg	Weak Activity	vs.formalin-induced algesia.	J13503
Not Stated	Antimicrobial Activity	Not stated	Not stated	Not stated	Active		AZ1003
Not Stated	Antibacterial Activity	Hot H2O Ext Alkaline Ext	Mice Mice	Not stated Not stated	Active Active	Protected from lethal infection of <i>E. coli</i> and <i>S. aureus</i> .	AZ1001
Not Stated	Antiviral Activity	Hot H2O Ext Alkaline Ext	Mice	IC50=21-263 mcg/ml	Active Active Active	Inhibited HIV-induced cytopathic effect. Inhibited expression of HIV antigen in HIV-1HTLV-IIIB or HIV-2ROD infected human lymphotropic virus type 1 positive MT-4 cells. Inhibited HIV absorption to cells.	AZ1001
Not Stated	Hepatoprotective Activity	Cinchonain Ia Fraction	Cell Culture (mouse hepatocytes)	Not stated	Active	Inhibitory activity on TNF-alpha-induced cell death.	AZ1002

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