

Biological Activities for Extracts of Iporuru (*Alchornea castaneifolia*)

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Not Stated Peru	Antiinflammatory Activity	ETOH(95%)Ext	IP Rat	Not Stated	Active	vs. carrageenan-induced pedal edema.	T03271
Stembark Peru	Antiinflammatory Activity	ETOH(100%)Ext	External Rat Male	0.8 mg	Active	vs. EPP-induced rat ear oedema.	L14626
Stembark Peru	Prostaglandin Synthesis Inhibition	ETOH(100%)Ext	Not Stated	100.0 mcg/ml	Active	vs. COX-1 catalyzed prostaglandin biosynthesis.	L14626
Bark Peru	Antibacterial Activity	ETOAC Ext ETOAC Ext H2O Ext H2O Ext	Agar Plate Agar Plate Agar Plate Agar Plate	1.0 mg 1.0 mg 1.0 mg 1.0 mg	Inactive Inactive Inactive Inactive	<i>Escherichia coli</i> <i>Staphylococcus aureus</i> <i>Escherichia coli</i> <i>Staphylococcus aureus</i>	T16253
Bark Peru	Antifungal Activity	ETOAC Ext ETOAC Ext ETOAC Ext ETOAC 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	0.25 mg/ml 0.25 mg/ml 0.5 mg/ml 1.0 mg/ml 1.0 mg/ml Not Stated Not Stated Not Stated	Active Active Active Active Active Inactive Inactive Inactive	<i>Microsporium gypseum</i> <i>Trichophytum gallinae</i> <i>Microsporium fulvum</i> <i>Microsporium canis</i> <i>Microsporium canis</i> <i>Microsporium fulvum</i> <i>Microsporium gypseum</i> <i>Trichophytum gallinae</i>	T16253
Bark Peru	Antiyeast Activity	ETOAC Ext ETOAC Ext H2O Ext H2O Ext	Agar Plate Agar Plate Agar Plate Agar Plate	1.0 mg 1.0 mg 1.0 mg 1.0 mg	Inactive Inactive Inactive Inactive	<i>Candida albicans</i> <i>Saccharomyces cerevisiae</i> <i>Candida albicans</i> <i>Saccharomyces cerevisiae</i>	T16253
Bark Peru	Antiviral Activity	ETOAC Ext H2O Ext	Cell Culture Cell Culture	LC50=0.30 mcg/ml LC50=<0.22 mcg/ml	Active Active	<i>Cytomegalovirus</i> - exposed to extract before infecting host cells.	T16253
Bark Peru	Antiviral Activity	ETOAC Ext H2O Ext	Cell Culture Cell Culture	LC50=>100. Mcg/ml LC50=>100. Mcg/ml	Inactive Inactive	<i>Cytomegalovirus</i> infected host cells exposed to extract.	T16253
Bark Peru	Antiviral Activity	ETOAC Ext H2O Ext	Cell Culture Cell Culture	LC50=>100. Mcg/ml LC50=>100. Mcg/ml	Inactive Inactive	<i>Sindbis virus</i> infected host cells exposed to extract.	T16253

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

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Bark Peru	Antiviral Activity	ETOAC Ext H2O Ext	Cell Culture Cell Culture	LC50=<1.0 mcg/ml LC50=>100. Mcg/ml	Active Inactive	<i>Sindbis virus</i> exposed to extract before infecting host cells.	T16253
Bark Peru	Anticrustacean Activity	ETOAC Ext H2O Ext	Not Stated Not Stated	LC50=41.0 mcg/ml LC50=>1000 mcg/ml	Active Inactive	<i>Artemia salina</i> assay system - predicts antitumor activity.	T16253
Bark Peru	Crown Gall Tumor Inhibition	ETOAC Ext H2O Ext	Cell Culture Cell Culture	LC50=0.14 mcg/ml LC50=0.52 mcg/ml	Active Active	Assay system is intended to predict for antitumor activity.	T16253

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