

Biological Activities of Canchalagua (*Schkuhria pinnata*)

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Plant - Bolivia	Antimalarial Activity	ETOH ext	IG Rat	1000 mg/kg	Active	<i>Plasmodium vinckei</i>	L12113
Plant - Kenya	Antibacterial Activity	MEOH ext	Agar plate	1000 ppm	Inactive	<i>Giardia lamblia</i>	L04039
Leaf - Argentina	Antibacterial Activity	H2O ext	Agar plate	1.0 mg/ml	Inactive	<i>Salmonella typhi</i>	J11153
Branch + Leaf - Argentina	Antibacterial Activity	H2O ext	Agar plate	62.5 mg/ml	Inactive Inactive	<i>Staphylococcus aureus</i> <i>Escherichia coli</i>	K14683
Leaf - Kenya	Antibacterial Activity	ETOH ext	Agar plate	100 mcg/ml	Active Inactive	<i>Bacillus subtilis</i> <i>Escherichia coli</i>	T00693
Leaf Argentina	Antibacterial Activity	Hydro-alcohol	Agar plate	5 mg/ml	Inactive Inactive Inactive Inactive Inactive	<i>Bacillus subtilis</i> <i>Micrococcus luteus</i> <i>Staphylococcus aureus</i> <i>Pseudomonas aeruginosa</i> <i>Escherichia coli</i>	K17402
Plant - Argentina	Antifungal Activity	ETOH ext	Agar plate	0.8 mg/ml	Active Active Active Active Active Inactive Inactive Inactive	<i>Lenzites elegans</i> <i>Pycnoporus sanguineus</i> <i>Fusarium oxysporum</i> <i>Penicillium notatum</i> <i>Trichoderma sp</i> <i>Aspergillus niger</i> <i>Schizophyllum commune</i> <i>Ganoderma applanatum</i>	L12768
Branch + Leaf - Argentina	Antifungal Activity	H2O ext	Agar plate	62.5 mg/ml	Inactive	<i>Aspergillus niger</i> <i>Pseudomonas aeruginosa</i>	K14683
Leaf - Argentina	Anti-fungal Activity	Hydro-alcohol	Agar plate	5 mg/ml	Inactive	<i>Aspergillus niger</i> <i>Mucor sp</i>	K17402
Leaf - Kenya	Antifungal Activity	ETOH ext	Agar plate	100 mcg/ml	Inactive	<i>Penicillium crustosum</i>	T00693
Plant - Argentina	Anti-yeast Activity	ETOH ext	Agar plate	400 mcg/ml	Active Active	<i>Saccharomyces carlsbergensis</i> <i>Rhodotorula sp</i>	L12768
Leaf - Kenya	Anti-yeast Activity	ETOH ext	Agar plate	100 mcg/ml	Inactive	<i>Saccharomyces cerevisiae</i>	T00693

GI = Gastric Intubation IG = Intragastric IP = Intraperitoneally IV = Intravenously SC = Subcutaneously PO = Orally

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Leaf - Argentina	Anti-yeast Activity	Hydro-alcohol	Agar plate	5 mg/ml	Inactive	<i>Candida albicans</i>	K17402
Ariel Parts - Bolivia	Antiviral Activity	H2O ext	Cell culture	50 mcl / cell	Inactive	HIV virus	K29837
Aerial Parts - Argentina	Insecticidal Activity	MEOH ext MEOH ext CH2CL2 ext CH2CL2 ext	In vitro	5.0% 1.0% 5.0% 1.0%	Inactive	<i>Sitophilus oryzae</i>	L23242
Plant - Paraguay	Insecticidal Activity	Pet Ether ext ETOH ext	In vitro	50 mcg	Inactive	<i>Rhodnius neglectus</i>	K18765

Biological Activities of Compounds in Canchalagua (*Schkuhria pinnata*)

Compound	Activity Tested For	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Costunolide	Anti-inflammatory Activity	In vitro	Not stated	Active	Inhibits NF-kappaB	SP3004
Costunolide	Nitric Oxide Inhibition	In vitro	Not stated	Active		SP3005
Costunolide	Antiproliferative Activity	Cell culture	Not stated	Active	Human breast cancer MCF-7 cells.	SP3006
Costunolide	Antiproliferative Activity	Cell culture	Not stated	Active	Human promyelotic leukemia cells	SP3007
Pectolarigenin	Antispasmodic Activity	In vitro	10 mcg/ml	Active	vs. histamine, KCL and electric stimulation of guinea pig illeum	SP3008

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