

Biological Activities for Extracts of Ajos-Sacha (*Mansoa alliacea*)

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Leaf - Peru	Antioxidant Activity	H2O ext	In vitro	IC50 239.7 mg/ml	Active	Measured by quenching of luminol-enhanced chemiluminescence	L03868
Leaf - Peru	Antioxidant Activity	MEOH ext	In vitro	IC50>1000 mg/ml	Inactive	Measured by quenching of luminol-enhanced chemiluminescence	L03868
Root+Stem - Peru	Anti-inflammatory Activity	ETOH ext	Rat ear	.08 mg/ear	Active	vs. epp-induced rat ear edema	L14626
Root+Stem - Peru	Prostaglandin synthesis inhibition	ETOH ext	In vitro	100 mcg/ml	Active	vs. COX-1 catalysed prostaglandin biosynthesis	L14626
Flowers / India	Hypocholesterolemic Activity	Dried flowers	Rat PO	2% of diet for 6 weeks	Active	Exhibited cholesterol lowering effect at same levels as garlic oil, excreted higher amounts of sterols in feces similar to onion. Significantly lowered absorption of cholesterol from intestine like other sulfur containing plants (ie. garlic and onion).	AJ2005
Aerial parts - Suriname	Binding effect	ETOH ext	Human adult	10.0 mcg/ml	Inactive	Radioligand binding to adrenergic receptor in human frontal cortex.	J12451
Aerial parts - Suriname	Binding effect	ETOH ext	Human adult	10.0 mcg/ml	Inactive	Radioligand binding to serotonin receptor in human frontal cortex.	J12451
Aerial parts - Suriname	Binding effect	ETOH ext	Human adult	10.0 mcg/ml	Inactive	Radioligand binding to dopamine receptor in human frontal cortex.	J12451
Aerial parts - Suriname	Binding effect	ETOH ext	Human adult	10.0 mcg/ml	Inactive	Radioligand binding to muscarinic receptor in human hippocampus tissues.	J12451
Aerial parts - Suriname	Binding effect	ETOH ext	Rat	10.0 mcg/ml	Inactive	Radioligand binding to adenosine NMDR receptor channel complex.	J12451

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Aerial parts - Suriname	Binding effect	ETOH ext	Rat lung	10.0 mcg/ml	Inactive	Radioligand binding to beta-2-adrenergic receptor.	J12451
Aerial parts - Suriname	Serotonin (5-HT) Receptor Binding Activity	CHCL3 ext	Calf hippocampus	100.0 mcg/ml	Inactive	Binding of 3H-Rauwolscine to serotonin receptors.	J10986
Leaf - India	Antifungal Activity	H2O ext	Agar plate	0.7 gm/ml	Active Active Active Active Active	<i>Alternaria bassicola</i> <i>Alternaria alternata</i> <i>Alternaria brassicae</i> <i>Alternaria carthami</i> <i>Fusarium oxysporum</i>	L05173
Leaf - India	Antifungal Activity	H2O ext	Agar plate	0.5 gm/ml	Active Active	<i>Colletotrichum capsici</i> <i>Curvularia lunata</i>	L05173
Leaf - Peru	Antifungal Activity	Dichloro-methane ext	Agar plate	5.0 mg/disc 10 mg/disc	Inactive	<i>Aspergillus fumigatus</i> <i>Aspergillus niger</i> <i>Candida albicans</i> <i>Cladosporium cladosporioides</i> <i>Cryptococcus oxysporum</i> <i>Neurospora crassa</i> <i>Penicillium purpurogenum</i> <i>Saccharomyces cerevisiae</i>	L07136
Leaf - Peru	Antifungal Activity	MEOH ext	Agar plate	5.0 mg/disc 10 mg/disc	Inactive	<i>Aspergillus fumigatus</i> <i>Aspergillus niger</i> <i>Candida albicans</i> <i>Cladosporium cladosporioides</i> <i>Cryptococcus oxysporum</i> <i>Neurospora crassa</i> <i>Penicillium purpurogenum</i> <i>Saccharomyces cerevisiae</i>	L07136
Leaf - Peru	Antifungal Activity	Dichloro-methane ext	Agar plate	5.0 mg/disc 10.0 mg/disc	Active Active	<i>Microsporum gypseum</i> <i>Trichophyton metagrophytes</i>	L07136
Leaf - Peru	Antifungal Activity	MEOH ext	Agar plate	5.0 mg/disc 10.0 mg/disc	Active Active	<i>Microsporum gypseum</i> <i>Trichophyton metagrophytes</i>	L07136
Leaf - Peru	Antifungal Activity	Not stated	Silica plate	Not stated	Active		AJ2007
Leaf - India	Antiviral Activity	ETOH ext	Cell culture	Not stated	Inactive	Plant virus distortion ringspot	W00025
Leaf - India	Antiviral Activity	ETOH ext	Cell culture	Not stated	Active	Plant virus Mild Mosaic	W00025

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Leaf - India	Antimicrobial Activity	Not stated	Cell culture	Not stated	Active	Plant (cowpea) charcoal rot	AJ2006
Leaf - India	Antimicrobial Activity	Not stated	Cell culture	Not stated	Active	Plant charcoal rot and wilt pathogens	AJ2003
Leaf - India	Antimicrobial Activity	ETOH ext	Agar plate	Not stated	Active		T13889
Leaf - India	Antimicrobial Activity	Oil ext	Agar plate	Various	Active		AJ2004

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