

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in *Ilex paraguariensis***

Activity	Chemical Count
(+)-Inotropic	2
5-Alpha-Reductase-Inhibitor	1
5-HT-Inhibitor	1
Adenosine-Antagonist	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	2
Allelochemic	3
Allergenic	3
Analeptic	1
Analgesic	4
Analgesic-Synergist	1
Angiotensin-Receptor-Blocker	1
Anorexic	1
Anthelmintic	1
Antiacne	1
Antiaggregant	2
Antiallergic	2
Antialopepic	1
Antialzheimeran	2
Antianemic	2
Antiapneic	2
Antiapoplectic	1
Antiapoptotic	1
Antiarabiflavinotic	1
Antiarrhythmic	1
Antiarthritic	2
Antiasthmatic	4

Activity	Chemical Count
Antiatherogenic	1
Antiatherosclerotic	3
Antiautistic	1
Antibacterial	5
Antibradyarrhythmic	1
Antibronchitic	1
Anticancer	6
Anticancer (Cervix)	1
Anticancer (Colon)	3
Anticancer (Forestomach)	1
Anticancer (Liver)	3
Anticancer (Skin)	1
Anticapillary-Fragility	1
Anticarcinogenic	2
Anticarcinomic	1
Anticariogenic	3
Anticarpal-Tunnel	2
Anticataract	2
Anticellulitic	2
Anticephalagic	2
Anticervicaldysplastic	1
Anticheilitic	2
Antichilblain	1
Anticholestatic	1
Antichoreic	1
Anticirrhotic	2
Anticlastogen	1

Activity	Chemical Count
Anticlaudificant?	1
Anticomplement	1
Anticonvulsant	1
AntiCrohn's	1
AntiCVI	1
Anticystinuric	1
Antidecubitic	2
Antidementia	2
Antidepressant	1
Antidermatitic	4
Antidiabetic	6
Antidiabetic?	1
Antidiarrheic	1
Antidote	1
Antidote (Hydrazine)	1
Antidote (pesticides)	1
Antidrepanocytic	1
Antidysenteric	1
Antidyskinetic	2
AntiEBV	2
Antiedemic	3
Antiemetic	2
Antiemphysemic	1
Antiepileptic	1
Antierythemic	1
Antiescherichic	2
Antifatigue	1

Activity	Chemical Count
Antifeedant	3
Antifibrosarcomic	1
Antiflu	1
Antigenotoxic	1
Antiglaucomic	1
Antiglossitic	2
Antigonadotropic	1
Antihalitotic	1
Antihematuric	1
Antihemolytic	1
Antihemorrhoidal	1
Antihepatotoxic	4
Antitherpetic	3
Antihistaminic	3
AntiHIV	3
Antihomocysteine	1
Antihomocystinuric	1
Antihypercholesterolemic	2
Antihyperglycemic	1
Antihyperkinetic	1
Antihyperlipidemic	1
Antihypertensive	3
Antihyperthyroid	1
Antihyperventilation	1
Antihypotensive	1
Antielus?	1
Antiinfertility	1

Activity	Chemical Count
Antiinflammatory	5
Antiinsomniac?	1
Antikeratitic	1
Antilactobacillic	1
AntiLegionella	1
Antileishmanic	1
Antileukemic	1
Antileukotriene	1
Antilipolytic	1
Antilisteria	1
Antilithic	1
AntiLyme	1
Antilymphomic	1
Antimalarial	2
Antimanic	1
Antimelanogenic	1
Antimelanomic	1
Antimenorrhagic	1
Antimetastatic	2
Antimigraine	2
AntiMorning-Sickness	1
AntiMSG-Sensitivity	1
Antimutagenic	6
Antinarcotic	1
Antinephritic	4
Antineuralgic	1
Antineuritic	1

Activity	Chemical Count
Antineuropathic	1
Antineuropathic?	1
Antinitrosaminic	1
Antinociceptive	3
Antiobesity	2
Antiobesity?	1
Antiophidic	1
Antiotitic	1
Antioxaluric	1
Antioxidant	9
Antiparkinsonian	1
Antipellagic	1
Antiperoxidant	3
Antiphotophobic	1
Antiplasmodial	1
Antiplatelet	1
AntiPMS	1
Antipolio	2
Antiprolactin	1
Antiproliferant	1
Antiproliferative	1
Antiprotozoal	1
Antipurpuric	1
Antiradiation	1
Antiradicular	4
Antirenitic	1
Antirheumatic?	1

Activity	Chemical Count
Antirhinitic	3
Antischizophrenic	2
Antiseborrheic	1
Antiseptic	2
Antiserotonergic	1
Antisickling	2
Antisinusitic	1
Antispasmodic	3
Antistaphylococcic	1
Antisteatotic	1
Antisunburn	2
AntiTGF-beta	1
Antithrombogenic	1
Antithromboxane	1
Antithyroid	2
Antithyrototoxic	1
AntiTMJ	1
Antitrypanosomic	2
Antitumor	8
Antitumor (brain)	1
Antitumor (Breast)	1
Antitumor (Cervix)	2
Antitumor (Colon)	2
Antitumor (Forestomach)	1
Antitumor (Liver)	2
Antitumor (Lung)	2
Antitumor (Ovary)	1

Activity	Chemical Count
Antitumor (Skin)	1
Antitumor (Stomach)	1
Antitumor-Promoter	5
Antiulcer	8
Antivaccinia	1
Antivaricose	1
Antivertigo	1
Antiviral	7
Antiyeast	1
Apoptotic	3
Aromatase-Inhibitor	1
Arrhythmigenic	1
Arteriodilator	2
Autotoxic	1
Bacteristat	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bronchodilator	2
Bruchifuge	1
cAMP-Inhibitor	2
cAMP-Phosphodiesterase-Inhibitor	4
Cancer-Preventive	10
Candidicide	2
Capillariprotective	1
Carcinogenic	1
Cardiodepressant	1
Cardioprotective	3



Activity	Chemical Count
Cardiotonic	3
Cardiovascular	1
Catabolic	2
Cerebrotonic	1
cGMP-Inhibitor	1
cGMP-Phosphodiesterase-Inhibitor	3
Chelator	1
Chemopreventive	2
Cholagogue	1
Choleretic	6
Cholesterolytic	1
Cholinergic	1
Clastogenic	1
CNS-Active	1
CNS-Depressant	1
CNS-Stimulant	4
Collagen-Sparing	1
Colorant	1
Coronary-Dilator	1
Cosmetic	1
COX-2-Inhibitor	1
Cyclooxygenase-Inhibitor	2
Cytoprotective	1
Cytotoxic	1
Deodorant	1
Diuretic	6
Dopaminergic	1

Activity	Chemical Count
Dye	1
Elastase-Inhibitor	1
Emetic	1
Energizer	1
Epidermal-Stimulant	1
Ergotamine-Enhancer	1
Estrogenic?	1
Fetotoxic	2
FLavor	4
Fungicide	2
Gastroprotective	1
Glucosyl-Transferase-Inhibitor	1
Hemostat	1
Hepatomagenic	1
Hepatoprotective	6
Herbicide	3
Histamine-Inhibitor	1
Hypertensive	2
Hyperuricemic	1
Hypocholesterolemic	5
Hypoglycemic	6
Hypotensive	4
Hypouricemic	1
Ileorelaxant	1
Immunomodulator	2
Immunostimulant	1
Immunosuppressant	2

Activity	Chemical Count
Insecticide	2
Insectifuge	1
Insectifuge?	1
Insectiphile	1
Insulinase-Inhibitor	1
Insulinotonic	1
Interferonogenic	1
Irritant	3
Juvabional	2
Larvicide	1
Larvostat	2
Laxative	1
Leucocytogenic	1
Leukotriene-Inhibitor	1
Lipolytic	1
Lipotropic	2
Lipoxygenase-Inhibitor	4
Lubricant	1
Lypolytic	1
MAO-Inhibitor	1
Memorigenic	1
Metal-Chelator	1
MMP-9-Inhibitor	1
Mosquitocide	1
Mutagenic	2
Myocardiotoxic	2
Myoprotective	1

Activity	Chemical Count
Myorelaxant	4
Myostimulant	1
Nematostat	1
Neurotoxic	2
NO-Genic	1
Ornithine-Decarboxylase-Inhibitor	3
Osmoregulator	1
Oviposition-Stimulant	2
Oxidant	1
PAF-Inhibitor	1
Parasympathomimetic	1
Perfumery	4
Pesticide	11
Phosphodiesterase-Inhibitor	1
Piscicide	1
Potassium-Sparing	1
Progesteronigenic	1
Propecic	2
Prostaglandin-Secretor	1
Protease-Inhibitor	1
Protisticide	2
Psychotropic	1
Pyrogenic	1
Quinone-Reductase-Inducer	1
Radioprotective	1
Respirastimulant	1
Sedative	1

Activity	Chemical Count
Sodium-Sparing	1
Spasmogenic	1
Stimulant	3
Sunscreen	2
Suppository	1
Sweetener	2
Tachycardic	2
Teratogenic	3
TOPO-2-Inhibitor	1
Topoisomerase-I-Inhibitor	1
Topoisomerase-II-Inhibitor	2
Tranquilizer	1
Transdermal	1
Trypanocide	1
Ubiquinol	1
Vasodilator	5
Vasopressor	2
Vulnerable	3
Xanthine-Oxidase-Inhibitor	1