

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Plantago major**

Activity	Chemical Count
11B-HSD-Inhibitor	1
12-Lipoxygenase-Inhibitor	1
17-beta-hydroxysteroid dehydrogenase-Inhibitor	1
5-Alpha-Reductase-Inhibitor	2
5-Lipoxygenase-Inhibitor	1
Abortifacient	1
ACE-Inhibitor	2
Acidulant	2
Adaptogenic	1
Additive	1
Aldose-Reductase-Inhibitor	12
Algistat	1
Allelochemic	1
Allelopathic	4
Allergenic	8
Alpha-Amylase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Amphiglycemic?	1
Analgesic	9
Androgenic?	1
Anemiagenic	1
Anesthetic	2
Angiotensin-Receptor-Blocker	3
Anorexic	1
Anthelmintic	2
Antiacne	6
Antiacrodermatitic	1

Activity	Chemical Count
Antiacrodynamic	1
AntiADD	1
Antiadenoviral	1
Antiaflatoxin	1
AntiAGE	2
Antiaggregant	9
Antiaging	5
Antiakathisic	1
Antialcoholic	3
Antiallergic	9
Antialopepic	3
Antialzheimeran	5
Antiamblyopic	1
Antianaphylactic	2
Antiandrogenic	2
Antianemic	3
Antiangular	2
Antiangiogenic	4
Antianorectic	1
Antianorexic	1
Antianxiety	2
Antiaphthic	1
Antiarabiflavivotic	1
Antiarrhythmic	7
Antiartherosclerotic	2
Antiarthritic	12
Antiasthmatic	6

Activity	Chemical Count
Antiatherogenic	2
Antiatherosclerotic	9
Antibacterial	19
AntiBPH	1
Anticalcific	1
Anticancer	5
Anticancer (Colon)	3
Anticancer (Fore stomach)	2
Anticancer (Liver)	2
Anticancer (Lung)	1
Anticancer (Skin)	2
Anticancer	2
Anticarcinogenic	4
Anticarcinomic	4
Anticariogenic	3
Anticarpal-Tunnel	1
Anticataract	7
Anticephalagic	2
Anticervicaldysplastic	3
AntiCFS	3
Anticheilitic	2
Antichilblain	1
Anticholestatic	1
Anticholinergic	1
Antichoreic	1
Anticirrhotic	2
Anticlastogen	3

Activity	Chemical Count
Anticlimacteric	4
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolitic	2
Anticomplement	2
Anticomplementary	3
Anticonvulsant	2
Anticorneotic	1
Anticoronary	5
AntiCrohn's	2
AntiCTS	1
Anticystinuric	1
Antidandruff	4
Antidecubitic	2
Antidementia	4
Antidepressant	6
Antidepressant?	1
Antidermatic	1
Antidermatitic	4
Antidermatotic	1
Antidiabetic	11
Antidiarrheic	1
Antidiscotic	1
Antidote (Aluminum)	2
Antidote (Amanitin)	1
Antidote (Cadmium)	2

Activity	Chemical Count
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paraquat)	1
Antidote (Strychnine)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	2
Antidysmenorrhic	2
Antidysphagic	1
AntiEBV	2
Antieczemic	4
Antiedemic	7
Antielastase	1
Antiencephalitic	1
Antiencephalopathic	2
Antiendometriotic	2
Antienterotic	1
Antiepileptic	4
Antiescherichic	2
Antiestrogenic	3
Antifatigue	5
Antifeedant	4
Antifertility	2
Antifibrinolytic	1
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrotic	3

Activity	Chemical Count
Antiflu	2
Antifuruncular	1
Antigallstone	1
Antigastritic	1
Antigastrotic	1
Antigenotoxic	2
Antigingivitic	2
Antiglaucomic	2
Antiglossitic	1
Antiglycosuric	1
Antigonadotropic	2
Antigout	1
Antigranular	1
Antigranulocytopenic	1
Antihangover	3
Antihemolytic	2
Antihemorrhagic	1
Antihepatitic	1
Antihepatoadenomic	1
Antihepatocarcinogenic	1
Antihepatomic	2
Antihepatotic	1
Antihepatotoxic	10
Antiherpetic	6
Antiherpetic?	1
Antihistaminic	10
AntiHIV	11

Activity	Chemical Count
Antihomocysteine	1
Antihyperactivity	1
Antihypercholesterolemic	2
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipidemic	2
Antihypertensive	6
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyosic	1
Antiichthyotic	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	21
Antiinsomniac	3
Antiinsomnic	1
Antiischemic	1
Antikeratitic	1
Antikeshan	1
Antiketotic	1
Antilaryngitic	1
AntiLegionella	2
Antileishmanic	2
Antileptic	2
Antileukemic	11
Antileukonychic	1

Activity	Chemical Count
Antileukoplakic	1
Antileukotriene	4
Antileukotriene-D4	2
Antilipolytic	1
Antilipoperoxidant	1
Antilithic	2
Antilupus	1
AntiLyme	4
Antilymphomic	3
Antimaculitic	4
Antimalarial	2
Antimanic	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	3
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	2
Antimetastatic	4
Antimigraine	3
Antimitotic	1
Antimitral-valve-prolapse	1
AntiMS	2
Antimutagenic	15
Antimyalgic	1



Activity	Chemical Count
Antineoplastic	2
Antinephritic	4
Antinephrolytic	1
Antineuralgic	2
Antineuramidase	1
Antineuropathic	1
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	4
Antinitrosic	1
Antinociceptive	2
Antinyctalopic	1
Antiobesity	5
Antiobesity?	1
Antioncychomycotic	1
Antionychyotic	1
Antiophidic	2
Antiorchitic	1
Antiosteoarthritic	2
Antiosteoporotic	7
Antiotitic	1
Antiototic	1
Antioxidant	26
Antioxidant Synergist	1
Antiozenic	1
Antipapillomic	1
Antiparkinsonian	4

Activity	Chemical Count
Antiparotitic	1
Antipellagic	2
Antipelvitic	1
Antipeptic	1
Antiperiodic	1
Antiperiodontic	1
Antiperiodontitic	3
Antiperistaltic	1
Antiperoxidant	8
AntiPGE2	1
Antipharyngitic	1
Antiphenylketonuric	1
Antiphotophobic	2
Antipityriasic	1
Antiplateque	3
Antiplasmodial	2
AntiPMS	4
Antipneumonic	1
Antipodagric	1
Antipodriac	1
Antipolio	2
Antipoliomyelitic	1
Antiporphyric	1
Antiprolactin	2
Antiproliferant	5
Antiproliferative	3
Antiprostaglandin	1

Activity	Chemical Count
Antiprostatic	2
Antipsoriac	4
Antipyretic	6
Antiradicular	12
AntiRaynaud's	3
Antirenitic	1
Antiretinopathic	1
Antiretinotic	1
Antiretroviral	1
Antirheumatic	7
Antirhinitic	1
Antisalmonella	1
Antisarcomic	1
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	2
Antisecretory	1
Antiseptic	10
Antiserotonin	1
Antishingles	1
Antisickling	2
Antispare-Tire	1
Antispasmodic	11
Antispasmophilic	1
Antistaphylococcic	3
Antisteatotic	1
Antistomatitic	2

Activity	Chemical Count
Antistress	6
Antistroke	2
Antisunburn	2
Antisyndrome-X	6
AntiTGF-beta	2
Antithiamin	1
Antithrombic	1
Antithrombotic	2
Antithromboxane	1
Antithyroid	3
Antitic	1
Antitinnitic	1
Antitonsilitic	1
Antitoxin (Strychnine)	1
Antitriglyceride	2
Antitrypanosomic	1
Antitubercular	1
Antitumor	19
Antitumor (brain)	3
Antitumor (Breast)	5
Antitumor (Cervix)	1
Antitumor (CNS)	1
Antitumor (Colon)	6
Antitumor (Forestomach)	2
Antitumor (Gastric)	1
Antitumor (Kidney)	2
Antitumor (Liver)	2

Activity	Chemical Count
Antitumor (Lung)	7
Antitumor (Ovary)	2
Antitumor (Pancreas)	2
Antitumor (Prostate)	2
Antitumor (Skin)	5
Antitumor (Stomach)	3
Antitumor (Thyroid)	1
Antitumor-Promoter	7
Antitussive	1
Antitympanic	1
Antiulcer	10
Antiulcerogenic	2
Antivaccinia	1
Antivertigo	1
Antiviral	12
Antiviral?	1
Antixerophthalmic	1
Antiyeast	1
Anxiolytic	7
AP-1-Inhibitor	1
Aphidifuge	1
Apoptotic	6
Aromatase-Inhibitor	4
Arteriodilator	1
Ascaricide	1
Asthma-preventive	1
Astringent	2

Activity	Chemical Count
Autotoxic	1
Bacteristat	1
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	4
Beta-Glucuronidase-Inhibitor	5
Bruchiphobe	1
Calcium-Antagonist	4
Calcium-Antagonist?	1
Calcium-Channel-Blocker	1
Cancer-Preventive	25
Candidicide	3
Carcinogenic	3
Cardiac	1
Cardiodepressant	1
Cardiomyopathogenic	1
Cardioprotective	11
Cardiotonic	2
Cardiotoxic	1
Cataractagenic	1
Cathartic	5
Cerebrotonic	1
Chelator	1
Chemopreventive	6
Cholagogue	3
Choleretic	13
Cholinergic	1
Circulotonic	1

Activity	Chemical Count
Clastogenic	2
CNS-Active	2
CNS-Depressant	3
CNS-Stimulant	2
Co-carcinogenic	1
Cold-preventive	1
Collagen-Sparing	2
Collagenic	3
Colorant	1
Comedolytic	2
Copper-Antagonist	1
COX-1-Inhibitor	3
COX-2-Inhibitor	7
Cyclooxygenase-Inhibitor	6
Cytochrome-P450-1A1-Inhibitor	1
Cytoprotective	1
Cytotoxic	5
Deiodinase-Inhibitor	2
Demulcent	1
Deodorant	1
Depressant	1
Dermatitigenic	3
Detoxicant	1
Detoxicant (Alcohol)	1
Diaphoretic?	1
Differentiator	2
Disinfectant	1

Activity	Chemical Count
Diuretic	17
DNA-Active	1
DNA-Protective	2
Dye	1
Elastase-Inhibitor	2
Energizer	1
Ergogenic	1
Erythrocytogenic	1
Estrogenic	2
Expectorant	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	6
Fungicide	10
Fungistat	2
Gastroprotective	1
Glucosyl-Transferase-Inhibitor	1
Hemostat	1
Hepatocarcinogenic	1
Hepatoprotective	12
Hepatotoxic	1
Hepatotropic	2
Herbicide	3
HIF-1alpha-Inhibitor	1
Histamine-Inhibitor	2
HIV-RT-Inhibitor	1
Humectant	1



Activity	Chemical Count
Hyaluronidase-Inhibitor	2
Hydrocholerectic	1
Hypertensive	1
Hyperuricemic	1
Hypocholesterolemic	12
Hypoglycemic	7
Hypolipemic	1
Hypolipidemic	2
Hypotensive	13
Hypouricemic	1
ICAM-1-Inhibitor	2
IKK-Inhibitor	2
Ileorelaxant	1
Immunomodulator	9
Immunostimulant	10
Immunosuppressant	4
iNOS-Inhibitor	2
Inotropic	1
Insectifuge	8
Insulinogenic	3
Interferon-Synergist	1
Interferonogenic	2
Interleukin-6-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	2
Juvabional	1
Keratolytic	2

Activity	Chemical Count
Lactagogue	1
Larvostat	1
Laxative	8
Laxative?	1
Leptogenic	1
Leucocytogenic	2
Leukotriene-Inhibitor	2
Lipotropic	1
Lipoxygenase-Inhibitor	7
Lithogenic	2
Litholytic	2
Lyase-Inhibitor	1
MAO-Inhibitor	2
MAPK-Inhibitor	2
Memorigenic	2
Metal-Chelator	3
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	2
Monoamine-Precursor	1
Mucogenic	2
Mucolytic	1
Musculotropic	1
Mutagenic	1
Mycobactericide	1
Myocardiotoxic	1
Myorelaxant	3

Activity	Chemical Count
NADH-Oxidase-Inhibitor	1
Nematicide	1
NEP-Inhibitor	1
Neuroprotective	2
Neurotransmitter	1
Neurotropic	1
NF-kB-Inhibitor	5
NO-Genic	1
NO-Inhibitor	1
NO-Synthase-Inhibitor	1
Nodulation-Signal	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	7
Osteogenic	1
Oviposition-Stimulant	1
P21-Inducer	1
Paralytic	1
Parasympathomimetic	1
Percutaneostimulant	1
Perfumery	2
Pesticide	23
Phagocytotic	3
Phytoalexin	2
Piscicide	2
PKC-Inhibitor	1
Polyamine-Synthesis-Inhibitor	2
Potassium-Sparing	1

Activity	Chemical Count
Preservative	1
Progestational	1
Proliferant	1
Prooxidant	3
Propepic	2
Prostaglandigenic	4
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	3
Prostaglandin-Synthetase-Inhibitor	1
Protease-Inhibitor	1
Protein-Kinase-C-Inhibitor	3
Protisticide	1
Protistostat	1
Psychotropic	1
PTK-Inhibitor	2
Purgative	2
Quinone-Reductase-Inducer	3
Radioprotective	1
Refrigerant	1
RNA-Inhibitor	1
Secretagogue	1
Sedative	5
Serotonergic	1
Sialidase-Inhibitor	1
Sodium-Sparing	1
Spermigenic	1
Succinoxidase-Inhibitor	1

Activity	Chemical Count
Sunscreen	5
Suppurative	1
Sweetener	2
Testosteronigenic	1
Thermogenic	1
Thymoprotective	1
Tineacide	1
TNF-alpha-Inhibitor	2
Tonic	1
TOPO-2-Inhibitor	1
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	2
Tranquilizer	3
Trichomonicide	1
Triglycerolytic	2
Trypanocide	1
Tumorigenic	1
Tyrosinase-Inhibitor	3
Ubiquit	4
Ulcerogenic	1
Uricosuric	3
Urinary-Acidulant	1
Uterorelaxant	1
Uterosedative	1
Uterotonic	1
Uterotrophic	1
Vasodilator	10

Activity	Chemical Count
Vasopressor	2
VEGF-Inhibitor	3
Vermifuge	1
Vulnerary	7
Xanthine-Oxidase-Inhibitor	7