

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Withania somnifera**

Activity	Chemical Count
'Smart-Drug'	2
11B-HSD-Inhibitor	1
5-Alpha-Reductase-Inhibitor	2
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	1
Absorbent	1
Addictive	1
Adjuvant	1
Aggregant	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	5
Allelochemic	4
Allergenic	2
Amblyopic	1
Analgesic	4
Androgenic	1
Anesthetic	1
Angiogenic	1
Anorectic	1
Anorexic	1
ANS-Paralytic	1
ANS-Stimulant	1
Antiacne	1
AntiAddisonian	1
Antiadenocarcinomic	1
Antiadenomic	1
Antiadrenergic	1

Activity	Chemical Count
Anti aflatoxin	2
Antiaggregant	2
Antiaging	1
Antiallergic	2
Antialopecic	1
Antialzheimeran	2
Antianaphylactic	2
Antiandrogenic	2
Antiangiogenic	1
Antiapoplectic	1
Antiarrhythmic	1
Antiartherosclerotic	1
Antiarthritic	3
Antiasthmatic	2
Antiatherogenic	1
Antiatherosclerotic	3
Antibacterial	7
Antibiotic	1
Antibronchoconstrictor	1
Anticancer	1
Anticancer (Breast)	1
Anticancer (Cervix)	1
Anticancer (Colon)	1
Anticancer (Fore stomach)	1
Anticancer (Liver)	1
Anticancer (Lung)	1
Anticancer (Skin)	1

Activity	Chemical Count
Anticapillary-Fragility	1
Anticarcinogenic	1
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticariogenic	1
Anticataract	3
Anticholinergic	1
Antichoreic	1
Anticirrhotic	1
Anticlastogen	1
Anticolitic	1
Anticomplementary	1
Anticonvulsant	1
Anticoronary	1
AntiCrohn's	1
AntiCVI	1
Anticystinuric	1
Anticystitic	1
Anticytotoxic	1
Antidementia	2
Antidepressant	1
Antidermatitic	2
Antidiabetic	4
Antidote (Iodine)	1
Antidyskinetic	1
AntiEBV	1
Antieczemic	1

Activity	Chemical Count
Antiedemic	4
Antielastase	1
Antiencephalitic	1
Antierythemic	1
Antiescherichic	1
Antiestrogenic	3
Antifeedant	7
Antifertility	1
Antifibrinolytic	1
Antifibrosarcomic	1
Antiflu	1
Antifumitory	1
Antigastric	1
Antigenotoxic	1
Antiglaucomic	1
Antigonadotrophic	1
Antigonadotropic	2
Antigranular	1
AntiGTF	1
Antihematuric	1
Antihemolytic	1
Antihemorrhoidal	1
Antihepatotoxic	5
Antiherpetic	3
Antihiccup	1
Antihistaminic	4
AntiHIV	2

Activity	Chemical Count
Antihomocysteine	1
Antihomocystinuric	1
Antihydrophobic	1
Antihypercholesterolemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	2
Antihyperthyroid	1
Antiinflammatory	10
AntiLegionella	1
Antileishmanic	1
Antileukemic	4
Antileukotriene	2
Antileukotriene-D4	1
Antileukotrienogenic	1
Antilipoperoxidant	1
Antilymphomic	1
Antimalarial	2
Antimanic	1
Antimelanogenic	1
Antimelanomic	3
Antimenorrhagic	1
Antimetastatic	2
Antimitotic	1
AntiMS	1
Antimutagenic	5
Antimyocarditic	1
Antinephritic	1

Activity	Chemical Count
Antinesidioblastosic	1
Antinitrosaminic	2
Antinociceptive	4
Antiophidic	2
Antiophthalmic	2
Antioxidant	10
Antipancreatic	1
Antiperiodontal	1
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	3
Antipharyngitic	1
Antiplaque	1
Antiplasmodial	1
Antiplaquet	1
AntiPMS	1
Antipodriac	1
Antipolio	2
Antiprogestational	1
Antiproliferant	3
Antiprostaglandin	2
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	3
Antiprotozoal	1
Antipsoriac	1
Antipurpuric	1

Activity	Chemical Count
Antipyretic	1
Antiradicular	3
Antisarcotic	1
Antiseptic	4
Antispasmodic	4
Antisteatotic	1
Antistreptococcic	1
Antistress	3
Antisunburn	2
Antithiamin	1
Antithrombic	1
Antithrombogenic	1
Antithyroid	2
Antitrypanosomic	2
Antitumor	12
Antitumor (Bladder)	1
Antitumor (Breast)	3
Antitumor (Cervix)	1
Antitumor (Colon)	3
Antitumor (Fore stomach)	1
Antitumor (Liver)	1
Antitumor (Lung)	3
Antitumor (Ovary)	1
Antitumor (Skin)	2
Antitumor-Promoter	3
Antiulcer	4
Antivaricose	1

Activity	Chemical Count
Antiviral	7
Apoptotic	4
Artemicide	2
Atherogenic	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	1
Bradycardiac	1
Bronchorelaxant	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	8
Candidicide	2
Capillariprotective	2
Carcinogenic	2
Cardiodepressant	1
Cardioprotective	1
Cardiovascular	1
Caspase-8-Inducer	1
Catabolic	2
Cerebrotonic	1
Chemopreventive	2
Cholagogue	2
Choleretic	3
Cholinergic	2
Clastogenic	1
CNS-Active	1



Activity	Chemical Count
CNS-Depressant	2
CNS-Stimulant	2
Collagen-Sparing	1
Collyrium	1
Comedolytic	1
COMT-Inhibitor	1
Copper-Chelator	1
Cosmetic	2
COX-2-Inhibitor	1
Cyclooxygenase-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	1
Cytotoxic	3
Deiodinase-Inhibitor	1
Demulcent	1
Detoxicant	1
Diaphoretic?	1
Differentiator	1
Diuretic	2
Dopaminigenic	1
Ectoparasiticide	1
Emetic	1
Emollient	1
Epinephrinergic	1
Estrogenic	3
Estrogenic?	1
Febrifuge	1

Activity	Chemical Count
Flatugenic	1
FLavor	1
Fungicide	5
Glucosyl-Transferase-Inhibitor	1
Glutathionergic	1
Gonadotrophic	1
Gram(+)-icide	1
Gram(-)-icide	1
Hemostat	2
Hepatomagenic	2
Hepatoprotective	7
Herbicide	2
Histamine-Inhibitor	1
HIV-RT-Inhibitor	1
Hypercholesterolemic	1
Hyperglycemic	1
Hypnotic	1
Hypocholesterolemic	6
Hypoglycemic	5
Hypolipidemic	1
Hypotensive	3
Hypothermic	1
Ileorelaxant	1
Immunomodulator	2
Immunostimulant	4
Immunosuppressant	3
iNOS-Inhibitor	1

Activity	Chemical Count
Inotropic	1
Insecticide	2
Insectifuge	2
Insectiphile	1
Insulinogenic	1
Interferonogenic	1
Juvabional	3
Larvostat	3
Laxative	1
Leukotriene-Inhibitor	1
Lipotropic	1
Lipoxygenase-Inhibitor	3
Lubricant	1
MAO-A-Inhibitor	1
MAO-Inhibitor	1
Mast-Cell-Stabilizer	1
Memorigenic	2
Metal-Chelator	1
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	1
Musculotropic	1
Mutagenic	2
Mydriatic	1
Myoprotective	1
Myorelaxant	2

Activity	Chemical Count
NADH-Oxidase-Inhibitor	1
Narcotic	1
Nematicide	1
Nematostat	1
NEP-Inhibitor	1
Neuroprotective	1
Neurotoxic	1
NF-kB-Inhibitor	1
Nicotinolytic	1
NO-Genic	1
NO-Inhibitor	1
NO-Synthase-Inhibitor	1
Ophthalmic-Antialkali	1
Ornithine-Decarboxylase-Inhibitor	2
Oviposition-Stimulant	2
Ovulant	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Paralytic	1
Parasympathomimetic	1
Perfumery	1
Pesticide	11
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1
Phytoalexin	1

Activity	Chemical Count
Phytohormonal	1
Plasmodicide	1
Poultice	1
Preservative	1
Proliferant	1
Propepic	2
Prostaglandin-Synthesis-Inhibitor	1
Protein-Kinase-C-Inhibitor	1
Protisticide	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	1
Radioprotective	1
Sedative	4
Serotonergic	1
Spermicide	1
Sunscreen	2
Suppository	1
Sweetener	3
Teratologic	1
TNF-alpha-Inhibitor	1
Topoisomerase-I-Inhibitor	1
Topoisomerase-II-Inhibitor	2
Toxic	1
Tranquilizer	1
Triglycerigenic	1
Tumorigenic	1
Tyrosinase-Inhibitor	1

Activity	Chemical Count
Tyrosine-Kinase-Inhibitor	1
Ubiquitin	1
Ulcerogenic	1
Uricogenic	1
Uterosedative	1
Vasodilator	2
Vasopressor	1
VEGF-Inhibitor	1
Vulnerary	3
Xanthine-Oxidase-Inhibitor	1