

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in *Euphrasia officinalis***

Activity	Chemical Count
Xanthine-Oxidase-Inhibitor	6
Vulnerary	3
VEGF-Inhibitor	4
Vasopressor	1
Vasodilator	11
Uterotrophic	2
Uterosedative	1
Uterorelaxant	1
Urinary-Acidulant	1
Uricosuric	2
Ulcerogenic	1
Ubiquit	3
Tyrosine-Kinase-Inhibitor	1
Tyrosinase-Inhibitor	2
Tumorigenic	2
Trichomonicide	1
Tranquilizer	2
Topoisomerase-II-Inhibitor	5
Topoisomerase-I-Inhibitor	5
TNF-alpha-Inhibitor	6
Thymoprotective	1
Testosteronigenic	1
Teratologic	2
Taenicide	1
Sweetener	1
Sunscreen	4
Succinoxidase-Inhibitor	1

Activity	Chemical Count
Styptic	1
Spermigenic	1
Spermicide	1
Serotoninerpic	1
Sedative	4
RNA-Inhibitor	1
Radioprotective	2
Quinone-Reductase-Inducer	3
Purgative	1
PTK-Inhibitor	3
Psychotropic	1
Protisticide	2
Protein-Kinase-C-Inhibitor	4
Prostaglandin-Synthetase-Inhibitor	1
Prostaglandin-Synthesis-Inhibitor	2
Prostaglandin-Sparer	1
Prostaglandigenic	2
Prooxidant	3
Proliferant	2
Progestational	1
Preservative	1
PPAR-Gamma-Antagonist	1
Polyamine-Synthesis-Inhibitor	2
Plasmodicide	1
PKC-Inhibitor	1
Phospholipase-Inhibitor	1
Phagocytotic	2

Activity	Chemical Count
PGE2-Inhibitor	1
Pesticide	20
Parasympathomimetic	1
Paralytic	1
PAF-Inhibitor	2
P450-Inhibitor	1
P450-Inducer	1
P21-Inducer	1
Ovulant	1
Oviposition-Stimulant	1
Osteogenic	1
Osteoblastogenic	1
Ornithine-Decarboxylase-Inhibitor	6
Nodulation-Signal	1
NO-Synthase-Inhibitor	2
NO-Inhibitor	5
NF-kB-Inhibitor	5
Neurotransmitter	1
Neuroprotective	3
Nephrotoxic	1
NEP-Inhibitor	2
Natriuretic	1
NADH-Oxidase-Inhibitor	2
Myorelaxant	5
Myoprotective	1
Mutagenic	4
Musculotropic	1

Activity	Chemical Count
Mucolytic	1
Mucogenic	2
MMP-9-Inhibitor	2
Metalloproteinase-Inhibitor	2
Metal-Chelator (Copper)	1
Metal-Chelator	2
Memory-Enhancer	1
Memorigenic	2
Mast-Cell-Stabilizer	1
MAPK-Inhibitor	2
MAO-Inhibitor	3
MAO-A-Inhibitor	1
Lyase-Inhibitor	1
Litholytic	1
Lithogenic	1
Lipoxygenase-Inhibitor	6
Lipotropic	1
Leukotriene-Inhibitor	1
Leptogenic	1
Laxative	6
Larvostat	2
Lactagogue	1
Juvabional	2
JNK-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	2
Interleukin-6-Inhibitor	1
Interferonogenic	1

Activity	Chemical Count
Interferon-Synergist	1
Insulinogenic	4
Insulin-Sparing	1
Insectiphile	2
Insectifuge	3
Insecticide	1
Inotropic	3
iNOS-Inhibitor	4
Immunosuppressant	4
Immunostimulant	8
Immunomodulator	7
Ileorelaxant	1
IKK-Inhibitor	2
ICAM-1-Inhibitor	3
Hypouricemic	1
Hypotensive	12
Hypolipidemic	3
Hypoglycemic	6
Hypocholesterolemic	10
Hypertensive	1
Hyperglycemic	1
Hydrocholerectic	1
Hyaluronidase-Inhibitor	2
HIV-RT-Inhibitor	2
Histamine-Inhibitor	1
HIF-1alpha-Inhibitor	1
Herbicide	1

Activity	Chemical Count
Hepatotropic	2
Hepatotoxic	1
Hepatoprotective	13
Hepatomagenic	2
Hepatocarcinogenic	1
Hemostat	3
Gram(-)icide	1
Gram(+)icide	1
Gonadotrophic	1
Glucosyl-Transferase-Inhibitor	2
Gastroprotective	1
Fungicide	6
Floral-Inhibitor	1
Fistula-Preventive	1
Fibrinolytic	1
Febrifuge	1
Estrogenic?	1
Estrogenic	7
Erythrocytogenic	1
Ergogenic	1
Energizer	1
Encephalopathic	1
DNA-Protective	2
DNA-Active	1
Diuretic	12
Differentiator	3
Diaphoretic?	2

Activity	Chemical Count
Diaphoretic	1
Detoxicant (Alcohol)	1
Detoxicant	1
Depressant	1
Deodorant	1
Deiodinase-Inhibitor	3
Cytotoxic	6
Cytoprotective	2
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-1A1-Inhibitor	1
Cyclooxygenase-Inhibitor	5
COX-2-Inhibitor	5
COX-1-Inhibitor	2
Copper-Chelator	2
Copper-Antagonist	1
COMT-Inhibitor	1
Colorant	1
Collagenic	3
Collagen-Sparing	1
Cold-preventive	1
Co-carcinogenic	1
CNS-Depressant	2
CNS-Active	1
Clastogenic	1
Circulotonic	1
Cholinergic	1
Choleretic	8

Activity	Chemical Count
Cholagogue	2
Chemopreventive	4
Chelator	1
Cerebrotonic	1
Cathartic	3
Catabolic	2
Caspase-8-Inducer	1
Cardiotoxic	1
Cardioprotective	8
Cardiomyopathogenic	1
Cardiodepressant	1
Cardiac	1
Carcinogenic	5
Capillariprotective	2
Capillarigenic	1
Candidicide	6
Cancer-Preventive	21
cAMP-Phosphodiesterase-Inhibitor	3
Calmodulin-Antagonist	1
Calcium-Channel-Blocker	1
Calcium-Antagonist?	1
Calcium-Antagonist	4
Bronchodilator	1
Bradycardiac	1
Beta-Glucuronidase-Inhibitor	3
Beta-Blocker	2
Beta-Adrenergic Receptor Blocker	1



Activity	Chemical Count
Bacteristat	2
ATPase-Inhibitor	1
Astringent	2
Asthma-preventive	1
Ascaricide	1
Arteriodilator	1
Artemicide	2
Aromatase-Inhibitor	3
Apoptotic	9
Aphidifuge	1
AP-1-Inhibitor	1
Anxiolytic	7
Antixerophthalmic	1
Antiviral?	1
Antiviral	15
Antivertigo	1
Antivaricose	2
Antivaginitic	1
Antivaccinia	1
Antiulcerogenic	2
Antiulcer	8
Antitussive	1
Antitumor-Promoter	10
Antitumor (Thyroid)	1
Antitumor (Stomach)	2
Antitumor (Skin)	5
Antitumor (Prostate)	2

Activity	Chemical Count
Antitumor (Pancreas)	1
Antitumor (Ovary)	2
Antitumor (Lung)	7
Antitumor (Liver)	1
Antitumor (Kidney)	1
Antitumor (Gastric)	1
Antitumor (Forestomach)	1
Antitumor (Colon)	4
Antitumor (CNS)	1
Antitumor (Cervix)	1
Antitumor (Breast)	5
Antitumor (brain)	2
Antitumor (Bladder)	1
Antitumor	14
Antitrypanosomic	2
Antitriglyceride	2
Antitinnitic	1
Antitic	1
Antithyroid	3
Antithrombogenic	1
Antithrombic	2
Antithiamin	2
Antisyndrome-X	6
Antisunburn	2
Antistroke	2
Antistress	5
Antistreptococcic	1

Activity	Chemical Count
Antistomatitic	2
Antisteatotic	1
Antistaphylococcic	4
Antispasmophilic	1
Antispasmodic	11
Antispare-Tire	1
Antisilicotic	1
Antisickling	1
Antishingles	1
Antiserotonin	2
Antiseptic	6
Antiscotomic	1
Antiscorbatic	1
Antirhinoviral	2
Antirhinitic	1
Antirheumatic	5
Antiretinotic	1
Antiretinopathic	1
Antirenitic	1
AntiRaynaud's	3
Antiradicular	12
Antipyretic	2
Antipurpuric	1
Antipsoriac	2
Antiprotozoal	1
Antiproteolytic	1
Antiprostatic	3

Activity	Chemical Count
Antiprostataadenomic	1
Antiprostanoid	1
Antiprostaglandin	2
Antiproliferant	7
Antiprolactin	2
Antiprogestational	1
Antiporphyrin	1
Antipoliomyelitic	2
Antipolio	3
Antipodriac	2
Antipneumonic	1
AntiPMS	5
Antiplatelet	1
Antiplasmodial	1
Antiplatelet	4
Antipityriasis	1
Antiphosphobic	2
Antipharyngitic	1
Antiperoxidant	5
Antipermeability	1
Antiperistaltic	2
Antiperiodontic	4
Antiperiodontic	1
Antiperiodontal	1
Antipellagic	2
Antiparotitic	1
Antiparkinsonian	3

Activity	Chemical Count
Antipapillomic	1
Antipancreatitis	1
Antiozenic	1
Antioxidant	21
Antiototic	1
Antiosteoporotic	7
Antiosteoarthritic	2
Antiorchitic	1
Antiophidic	4
Antionychotic	1
Antiobesity	5
Antinyctalopic	1
Antinociceptive	6
Antinitrosic	1
Antinitrosaminic	4
AntiNF-kB	1
Antineurotic	1
Antineuropathic	2
Antineuritic	1
Antineurasthenic	1
Antineuramidase	1
Antineuralgic	2
Antinephrolytic	1
Antinephritic	2
Antineoplastic	1
Antimyocarditic	2
Antimyalgic	1

Activity	Chemical Count
Antimutagenic	16
AntiMS	1
AntiMRSA	1
Antimitral-valve-prolapse	1
Antimitotic	1
Antimigraine	4
Antimetastatic	5
Antimenorrhagic	1
Antimenopausal	4
AntiMeniere's	1
Antimelanomic	5
Antimelanogenic	1
Antimeasles	1
Antimastitic	1
Antimastalgic	1
Antimanic	1
Antimalarial	2
Antimaculitic	4
Antilymphomic	3
Antilymphocytic	1
AntiLyme	5
Antilupus	1
Antilithic	2
Antilipoperoxidant	2
Antilipolytic	1
Antileukotriene	3
Antileukoplakic	1

Activity	Chemical Count
Antileukonychic	1
Antileukemic	10
Antileptic	2
Antileishmanic	2
AntiLegionella	1
Antiketotic	1
Antikeshan	1
Antikeratitic	1
Antiinsomnic	1
Antiinsomniac	3
Antiinflammatory	15
Antiinfertility	2
Antiinfective	1
Antiimpotence	1
Antiimplantation	1
Antiichthyotic	1
Antihypoglycemic	1
Antihyperthyroid	1
Antihypertensive	8
Antihyperlipoproteinaemic	1
Antihyperkinetic	2
Antihyperkeratotic	1
Antihypercholesterolemic	1
Antihyperactivity	1
Antihydrophobic	1
Antihomocysteine	1
AntiHIV	8

Activity	Chemical Count
Antihistaminic	8
Antiherpetic?	1
Antiherpetic	10
Antihepatotoxic	9
Antihepatoadenomic	1
Antihepatitic	1
Antihemorrhoidal	1
Antihemorrhagic	1
Antihemolytic	1
Antihematuric	1
Antiheartburn	1
Antihangover	4
AntiGTF	1
Antigout	1
Antigonadotropic	2
Antigonadotrophic	1
Antiglycosuric	1
Antiglossitic	1
Antiglaucomic	3
Antigingivitic	2
Antigastrotic	1
Antigastritic	2
Antigastric	1
Antigallstone	1
Antifuruncular	1
Antiflu	3
Antifibrotic	3



Activity	Chemical Count
Antifibrosarcomic	1
Antifibromyalgic	1
Antifibrinolytic	1
Antifertility	2
Antifeedant	5
Antifatigue	6
Antiestrogenic	5
Antiescherichic	3
Antierythemic	1
Antiepileptic	4
Antienterotic	1
Antiendometriotic	2
Antiencephalopathic	2
Antiencephalitic	2
Antielastase	3
Antiedemic	6
Antieczemic	2
Antidysphagic	1
Antidyspeptic	1
Antidysmenorrhic	2
Antidyskinetic	2
Antidysgeuzic	1
Antidysenteric	1
Antidote (Paraquat)	1
Antidote (Mercury)	1
Antidote (Lead)	3
Antidote (Cadmium)	2

Activity	Chemical Count
Antidote (Amanitin)	1
Antidote (Aluminum)	2
Antidiscotic	1
Antidiarrheic	1
Antidiabetic	10
Antidermatitic	4
Antidermatic	1
Antidepressant	7
Antidementia	7
Antideliriant	1
Antidecubitic	3
Antidandruff	2
Anticystitic	1
Anticystinuric	1
AntiCVI	1
AntiCTS	1
AntiCrohn's	3
Anticoronary	4
Anticorneotic	1
Anticonvulsant	3
Anticomplementary	4
Anticolitic	3
Anticold	2
Anticoeliac	1
Anticlimacteric	4
Anticlastogen	2
Anticirrhotic	2

Activity	Chemical Count
Antichoreic	1
Antichilblain	1
Anticheilitic	2
AntiCFS	3
Anticervicaldysplasic	3
Anticephalagic	2
Anticataract	9
Anticarpal-Tunnel	1
Anticariogenic	2
Anticardiospasmic	1
Anticarcinomic (Breast)	1
Anticarcinomic	3
Anticarcinogenic	3
Anticapillary-Fragility	1
Anticanker	3
Anticancer (Skin)	1
Anticancer (Lung)	2
Anticancer (Liver)	1
Anticancer (Forestomach)	1
Anticancer (Colon)	1
Anticancer (Cervix)	1
Anticancer (Breast)	1
Anticancer	8
Antibronchitic	1
AntiBPH	1
Antiberiberi	1
Antibacterial	16

Activity	Chemical Count
Antibackache	1
Antiatherosclerotic	7
Antiatherogenic	3
Antiasthmatic	6
Antiarthritic	8
Antiarteriosclerotic	1
Antiarrhythmic	5
Antiarabiflavivotic	1
Antiapoplectic	1
Antianxiety	2
Antianorexic	1
Antianorectic	2
Antiangiogenic	6
Antianginal	2
Antianemic	2
Antiandrogenic	1
Antianaphylactic	2
Antiamblyopic	1
Antialzheimeran	7
Antialopepic	1
Antiallergic	9
Antiallergenic	1
Antialcoholic	4
Antiakathisic	1
Antiaging	6
Antiaggregant	9
AntiAGE	2

Activity	Chemical Count
Antiaflatoxin	3
Antiadenovirus	1
Antiadenoviral	1
Antiadenomic	1
AntiADD	1
Antiacrodynic	1
Antiacrodermatitic	1
Antiacne	5
Anthelmintic	2
Anorexic	2
Angiotensin-Receptor-Blocker	3
Angiogenic	1
Androgenic?	1
Androgenic	1
Analgesic	8
Amphiglycemic?	1
Allergenic	4
Allelopathic	2
Allelochemic	2
Aldose-Reductase-Inhibitor	10
Aldehyde-Oxidase-Inhibitor	2
Acidulant	1
Acetylcholinergic	1
ACE-Inhibitor	3
5-Lipoxygenase-Inhibitor	2
5-HT-Inhibitor	1
11B-HSD-Inhibitor	3