

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

Activity	Chemical Count
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	5
5-Lipoxygenase-Inhibitor	2
ABeta-Inhibitor	1
ACE-Inhibitor	1
Acetylcholinergic	1
Acidulant	3
Adenylate-Cyclase-Inhibitor	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	4
Allelochemic	3
Allergenic	6
Alpha-Reductase-Inhibitor	2
Analgesic	4
Androgenic?	1
Anemiagenic	2
Angiotensin-Receptor-Blocker	3
Anthelmintic	1
Antiacid	1
Antiacne	5
Antiacrodermatitic	1
Antiacrodynic	1
Antiaflatoxin	2
AntiAGE	1
Antiaggregant	7
Antiaging	3
Antiakathisic	1

Activity	Chemical Count
Antialcoholic	5
Antialdosteronic	1
Antiallergic	6
Antialopecic	4
Antialzheimeran	7
Antiamblyopic	1
Antianaphylactic	3
Antiandrogenic	3
Antianemic	1
Antianginal	2
Antiangiogenic	2
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiarabiflavivotic	1
Antiarrhythmic	3
Antiarteriosclerotic	1
Antiarthritic	8
Antiasphyctic	1
Antiasthmatic	5
Antiatherosclerotic	7
Antibackache	1
Antibacterial	7
Antiberiberi	1
AntiBPH	1
Anticancer	3
Anticanker	3

Activity	Chemical Count
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	2
Anticarpal-Tunnel	1
Anticataract	6
Anticephalagic	2
Anticervicaldysplastic	3
AntiCFS	2
Anticheilitic	2
Antichilblain	1
Anticholinergic	1
Antichoreic	1
Anticirrhotic	1
Anticlimacteric	3
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolitic	3
Anticomplementary	2
Anticonvulsant	2
Anticoronary	4
AntiCrohn's	3
AntiCTS	1
Anticystinuric	1
Anticystitic	1
Antidandruff	2

Activity	Chemical Count
Antidecubitic	3
Antideliriant	1
Antidementia	5
Antidepressant	6
Antidermatitic	2
Antidiabetic	8
Antidiabetic?	1
Antidiarrheic	1
Antidote	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Hypoglycin-A)	1
Antidote (Lead)	2
Antidote (Paraquat)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrhic	1
Antidyspeptic	1
Antidysphagic	1
Antieczemic	5
Antiedemic	3
Antielastase	1
Antiencephalitic	2
Antiencephalopathic	5
Antiendometriotic	2
Antienterotic	1

Activity	Chemical Count
Antiepileptic	3
Antiescherichic	1
Antiastrogenic	1
Antifatigue	4
Antifeedant	1
Antifertility	1
Antifibrinolytic	2
Antifibromyalgic	2
Antifibrosarcomic	1
Antifibrotic	2
Antiflu	1
Antifuruncular	1
Antigallstone	1
Antigastric	1
Antigastritic	3
Antigastrotic	1
Antigingivitic	2
Antiglaucomic	2
Antiglossitic	1
Antigonadotropic	2
Antigranular	1
AntiGTF	1
Antihangover	5
Antiheartburn	1
Antihemolytic	1
Antihemorrhagic	1
Antihepatitic	1

Activity	Chemical Count
Antihepatomic	1
Antihepatotoxic	5
Antiherpetic	5
Antiherpetic?	1
Antihistaminic	5
AntiHIV	4
Antihomocysteine	1
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihypertensive	8
Antihyperthyroid	1
Antihypoglycemic	1
Antiichthyotic	1
Antiimplantation	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	10
Antiinsomniac	3
Antiinsomnic	1
Antiintegrase	1
Antikeratitic	1
Antiketotic	2
Antileishmanic	1

Activity	Chemical Count
Antileptic	2
Antileukemic	2
Antileukonychic	1
Antileukoplakic	1
Antileukorrhic	1
Antileukotriene	2
Antileukotriene-D4	4
Antilipolytic	1
Antilipoperoxidant	3
Antilithic	2
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	1
Antimaculitic	3
Antimalarial	1
Antimanic	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanomic	1
AntiMeniere's	1
Antimenopausal	3
Antimenorrhagic	4
Antimetastatic	3
Antimigraine	4
Antimitral-valve-prolapse	1

Activity	Chemical Count
Antimorphinic	1
AntiMS	4
Antimutagenic	7
Antimyocarditic	2
Antinauseant	1
Antinephritic	2
Antinephrolytic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	2
Antineurotic	1
Antinitrosaminic	1
Antinitrosic	1
Antinociceptive	2
Antinyctalopic	1
Antiobesity	5
Antiopidic	1
Antiorchitic	1
Antiosteoarthritic	1
Antiosteoporotic	5
Antiotitic	1
Antioxidant	12
Antioxidant (LDL)	1
Antioxidant Synergist	2
Antiozenic	1



Activity	Chemical Count
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	2
Antiparotitic	1
Antipellagic	2
Antipeptic	1
Antiperiodontal	1
Antiperiodontic	1
Antiperiodontitic	3
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	1
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplateque	5
Antiplasmodial	1
AntiPMS	5
Antipneumonic	1
Antipodriac	2
Antipolio	1
Antipoliomyelitic	2
Antipolyneuritic	1
Antiporphyrhic	1
Antiprolactin	1
Antiproliferant	3
Antiprostaglandin	1

Activity	Chemical Count
Antiprostanoid	1
Antiprostatic	6
Antiproteolytic	1
Antipruritic	1
Antipsoriac	3
Antipulmonotic	1
Antipyretic	1
Antiradicular	7
AntiRaynaud's	4
Antirenitic	1
Antiretinopathic	1
Antiretinotic	1
Antirheumatic	4
Antirhinitic	1
Antisalmonella	1
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	1
Antiseptic	4
Antiserotonin	1
Antishingles	1
Antishock	1
Antisickling	1
Antispare-Tire	1
Antispasmodic	6
Antispasmophilic	1
Antistaphylococcic	1

Activity	Chemical Count
Antisteatotic	1
Antistomatitic	1
Antistreptococcic	1
Antistress	4
Antistroke	2
Antisyndrome-X	3
Antithiamin	1
Antithrombic	1
Antithyreotropic	1
Antithyroid	1
Antititic	1
Antitinnitic	1
Antitriglyceride	1
Antitrypanosomic	1
Antitubercular	1
Antitumor	9
Antitumor (Bladder)	1
Antitumor (Breast)	2
Antitumor (CNS)	1
Antitumor (Colon)	2
Antitumor (Gastric)	1
Antitumor (Lung)	4
Antitumor (Ovary)	2
Antitumor (Prostate)	1
Antitumor (Skin)	1
Antitumor (Stomach)	1
Antitumor-Promoter	3

Activity	Chemical Count
Antitussive	1
Antiulcer	9
Antiuremic	1
Antivaginitic	2
Antivaricose	1
Antivertigo	1
Antiviral	5
Antiviral?	1
Antixerophthalmic	1
Antixerotic	1
Anxiolytic	5
Apoptotic	4
Aromatase-Inhibitor	1
Asthma-preventive	1
Astringent	1
ATPase-Inhibitor	1
Bacteristat	2
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bradycardiac	1
Bronchosedative	1
Bruchiphobe	1
Calcium-Antagonist	3
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2

Activity	Chemical Count
Cancer-Preventive	18
Candidicide	1
Capillariprotective	1
Carcinogenic	4
Cardiodepressant	1
Cardiomyopathogenic	1
Cardioprotective	5
Cardiotoxic	1
Catabolic	1
Cerebrotonic	1
Chelator	1
Chemopreventive	1
Choleretic	3
Cholinergic	1
Circulotonic	1
CNS-Depressant	1
Cold-preventive	1
Collagenic	2
Colorant	1
Comedolytic	1
COMT-Inhibitor	1
Copper-Antagonist	1
Copper-Chelator	2
Cosmetic	1
COX-1-Inhibitor	2
COX-2-Inhibitor	4
Cyanogenic	1

Activity	Chemical Count
Cyclooxygenase-Inhibitor	3
Cytochrome-P450-1A2-Inhibitor	1
Cytotoxic	3
Deiodinase-Inhibitor	2
Demulcent	1
Deodorant	1
Dermatitigenic	2
Detoxicant	1
Detoxicant (Alcohol)	1
Diaphoretic?	2
Differentiator	1
Diuretic	6
Ergogenic	1
Erythrocytogenic	1
Essential	2
Estrogenic	2
Expectorant	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	6
Fungicide	3
Gastroprotective	1
Glucosyl-Transferase-Inhibitor	2
Hemolytic	1
Hemopoietic	1
Hemostat	1
Hepatomagenic	1

Activity	Chemical Count
Hepatoprotective	6
Hepatotoxic	5
HIV-RT-Inhibitor	2
Hypercholesterolemic	1
Hyperglycemic	1
Hypertensive	1
Hypocholesterolemic	11
Hypoglycemic	3
Hypolipidemic	1
Hypotensive	10
Hypouricemic	1
ICAM-1-Inhibitor	1
Ileorelaxant	1
Immunomodulator	7
Immunostimulant	7
Immunosuppressant	2
iNOS-Inhibitor	2
Inotropic	2
Insecticide	1
Insectifuge	4
Insulinogenic	3
Interferon-Synergist	1
Interferonogenic	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	3
JNK-Inhibitor	1
Juvabional	1

Activity	Chemical Count
Keratitigenic	1
Keratolytic	2
Larvostat	1
Laxative	4
Laxative?	1
Leptingenic	1
Lipotropic	1
Lipoxygenase-Inhibitor	4
Lithogenic	1
Litholytic	1
Lubricant	3
Lymphocytogenic	1
MAO-A-Inhibitor	1
MAO-Inhibitor	2
Mast-Cell-Stabilizer	1
Memorigenic	1
Memory-Enhancer	1
Metal-Chelator (Copper)	3
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	1
Mucogenic	2
Mucolytic	2
Mutagenic	5
Mycobactericide	1
Myorelaxant	1
NADH-Oxidase-Inhibitor	1



Activity	Chemical Count
Natriuretic	1
Nematicide	2
Neoplastic	1
NEP-Inhibitor	1
Neuroexcitant	1
Neuroinhibitor	1
Neuroprotective	4
Neurotransmitter	1
NF-kB-Inhibitor	2
NO-Inhibitor	3
NO-Synthase-Inhibitor	1
Ornithine-Decarboxylase-Inhibitor	2
Osteogenic	1
Osteolytic	1
Oxidant	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Parasympathomimetic	1
Percutaneostimulant	2
Perfumery	4
Pesticide	13
PGE2-Inhibitor	1
Phagocytotic	1
Phospholipase-Inhibitor	1
Pigment	2
Plasmodicide	1

Activity	Chemical Count
Proliferant	1
Prooxidant	4
Propepic	5
Prostaglandin-Synthesis-Inhibitor	2
Protein-Kinase-C-Inhibitor	1
Protisticide	2
Psychotropic	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	2
Radioprotective	1
Respirastimulant	1
Roborant	1
Rodenticide	1
Sedative	1
Serotonergic	1
Sialogogue	1
Soap	1
Spermicide	1
Spermigenic	1
Sunscreen	1
Suppository	1
Suppurative	1
Sweetener	2
Teratologic	2
Testosteronigenic	1
Thymoprotective	1
TNF-alpha-Inhibitor	2

Activity	Chemical Count
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	2
Tranquilizer	2
Trichomonicide	1
Tumorigenic	1
Tyrosinase-Inhibitor	2
Tyrosine-Kinase-Inhibitor	1
Ubiquit	1
Ulcerogenic	1
Uricosuric	2
Urinary-Acidulant	1
Uterorelaxant	1
Uterotrophic	1
Vasodilator	10
Vasomotor-Stimulant	1
VEGF-Inhibitor	1
Verrucolytic	1
Vulnerary	4
Xanthine-Oxidase-Inhibitor	2