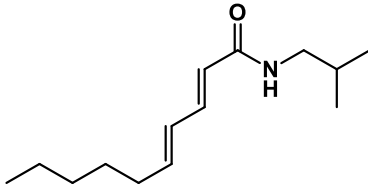
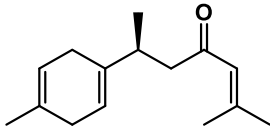
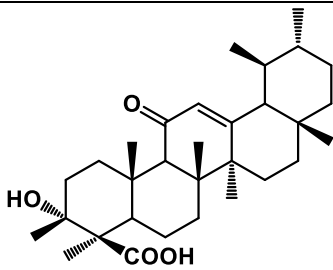
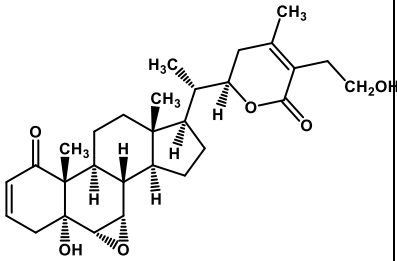
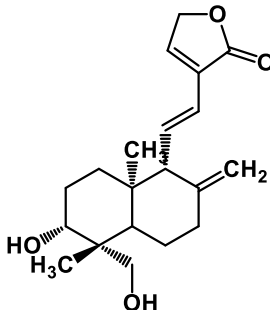
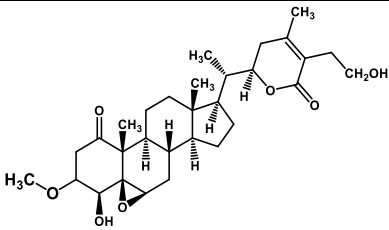
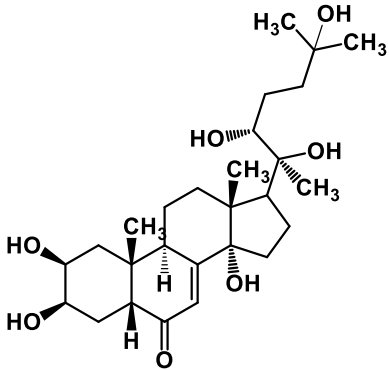
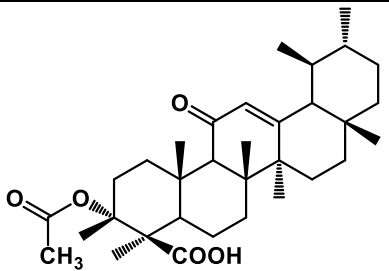
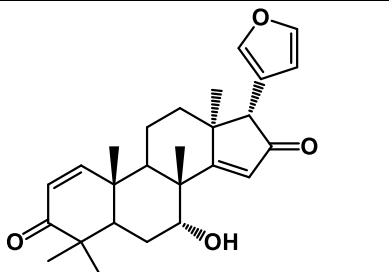
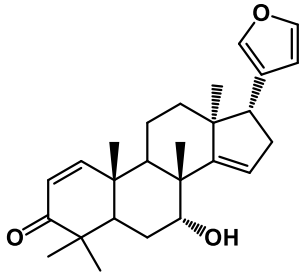
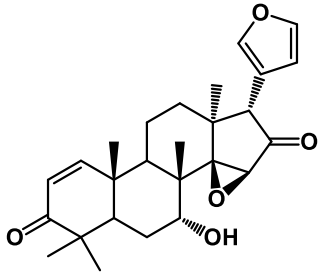
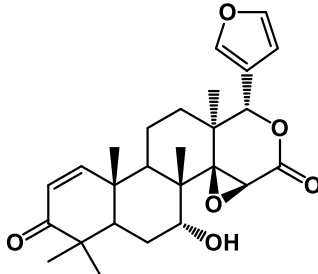
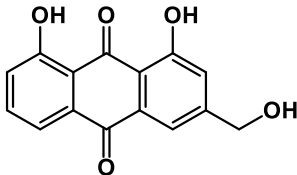
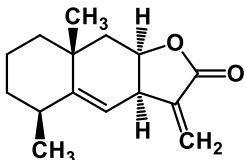
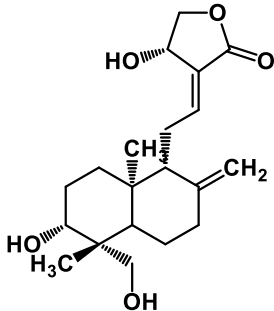
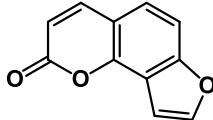
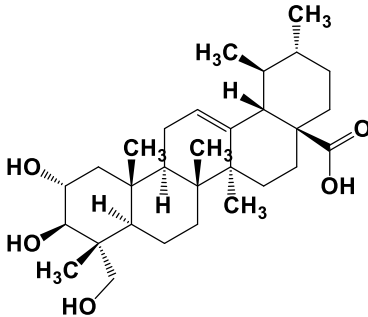
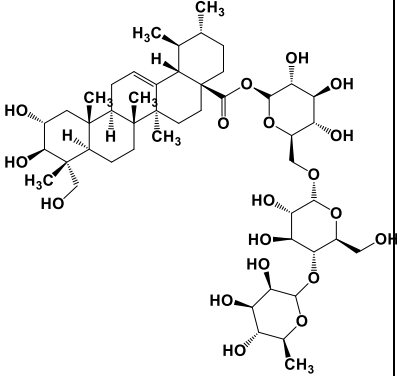


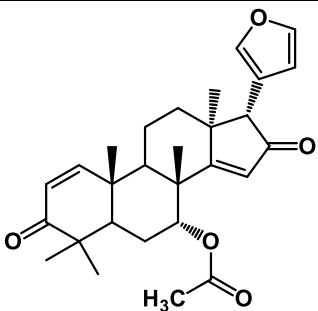
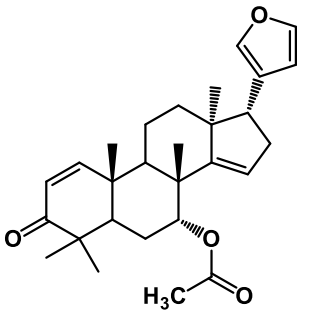
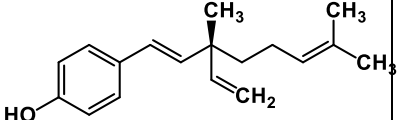
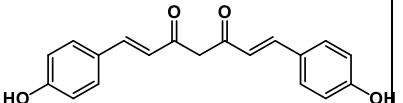
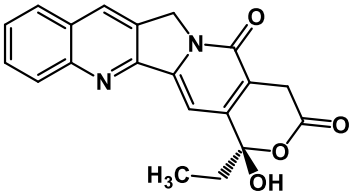
LIST OF PHYTOCHEMICALS WITH STRUCTURE AND ACTIVITY_NEW HORIZON BOTANICALS

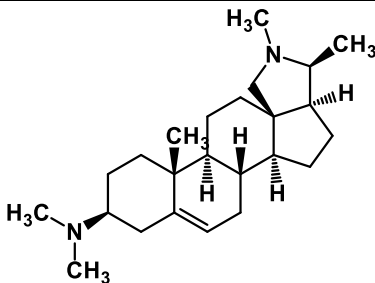
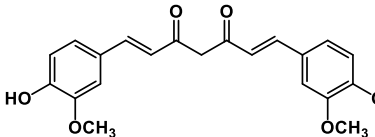
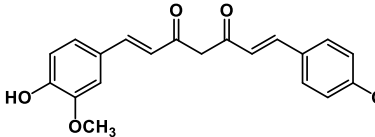
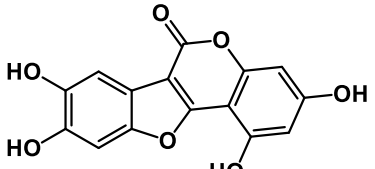
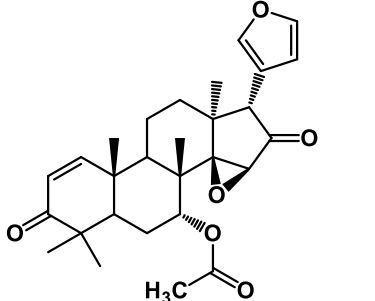
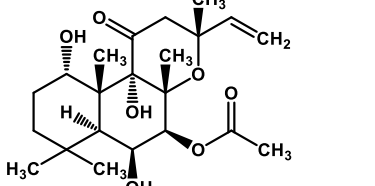
S. No	Name of the Phytochemical	Source/Host	Chemical Structure	CAS No.	Qty Available	CoA & Spectral Data (HPLC, ¹ H & ¹³ C-NMR)	Functional Activity
1	(2E,4E)-N-Isobutyl Decadienamide (Pellitorin)	Piper longum		18836-52-7	grams	Available	Anti cancer
2	(S)-(+)-Turmerone, Ar (Ar-Turmerone)	Curcuma longa		532-65-0	grams	Available	Anti-inflammatory, Anti-microbial, Anti-acne, Anti-aging
3	11-Ketoβ boswellic acid (KBA)	Boswellia serrata		17019-92-0	grams	Available	Anti-inflammatory, Anti-cancer, COX-2 inhibitor
4	12-Deoxy withastramonolide (27-Hydroxywithanolide B)	Withania somnifera		60124-17-6	grams	Available	Neuro degenerative
5	14-Deoxy-11,12-didehydro andrographolide	Andrographis paniculata		42895-58-9	grams	Available	Hepatoprotective, Anti-viral

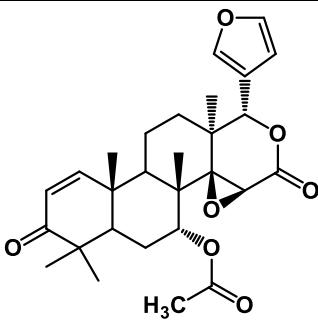
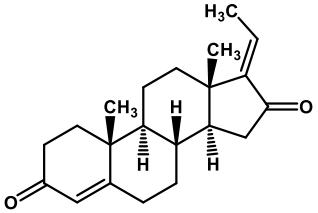
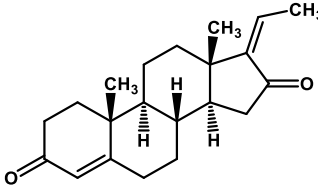
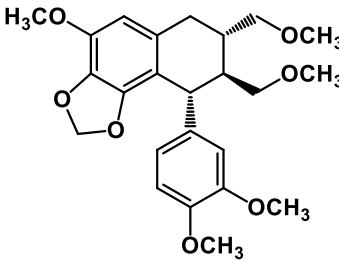
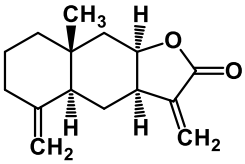
6	2,3-Dihydro-3-methoxywithaferin A	Withania somnifera		21902-96-5	grams	Available	Neurodegenerative
7	20-Hydroxy ecdysone	Ipomoea hederacea		5289-74-7	grams	Available	Gene expression
8	3-Acetyl-11-keto β boswellic acid(AKBA)	Boswellia serrata		67416-61-9	grams	Available	Anti-inflammatory, Anti-cancer, COX-2 inhibitor
9	7-Deacetyl azadiradione	Azadirachta indica		NA	grams	Available	Neuro degenerative

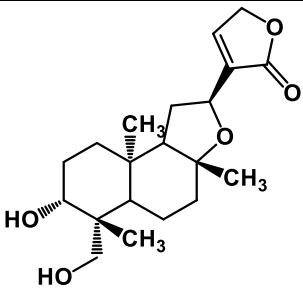
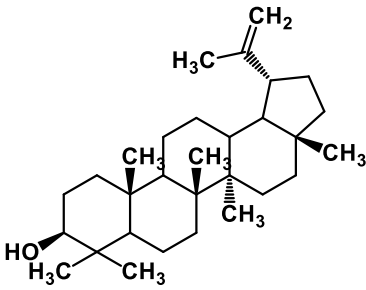
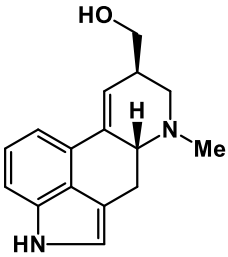
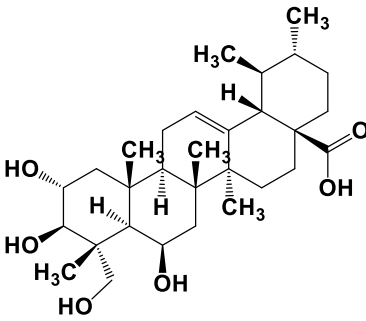
10	7-Deacetylazadirone	Azadirachta indica			grams	Available	
11	7-Deacetyl epoxyazadiradione	Azadirachta indica		NA	grams	Available	Anti-cancer
12	7-Deacetylgedunin	Azadirachta indica		10314-90-6	grams	Available	Anti-cancer
13	Acetyl boswellic acid,($\alpha+\beta$)	Boswellia serrate		89913-60-0(a) 5968-70-7(b)	grams	Available	Anti-inflammatory
14	Aloe emodin	Aloe barbadensis		481-72-1	grams	Available	Anti-cancer, Anti-viral (HSV)
15	Alantolactone	Inula racemosa		546-43-0	grams	Available	Neuro degenerative

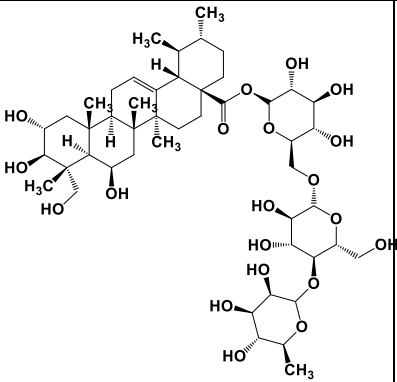
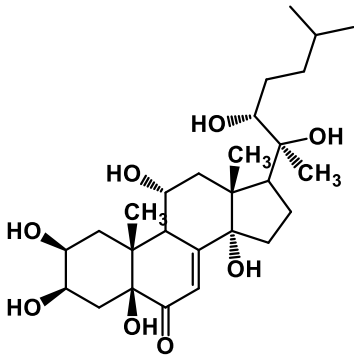
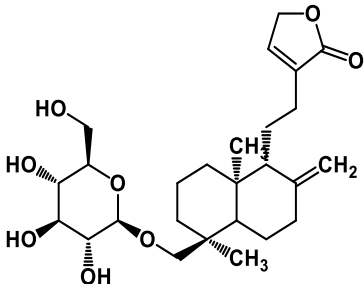
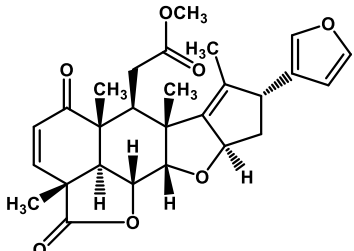
16	Andrographolide	Andrographis paniculata		5508-58-7	grams	Available	Hepatoprotective, Anti-viral
17	Angelicin (Isopsoralen)	Psoralea corylifolia		523-50-2	grams	Available	Antimicrobial, Anti-fungal and Anti-cancer
18	Asiatic acid	Centella asiatica		464-92-6	grams	Available	
19	Asiaticoside	Centella asiatica		16830-15-2	grams	Available	

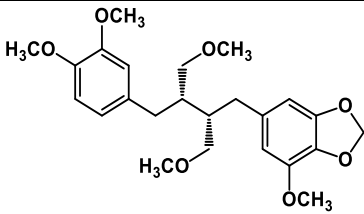
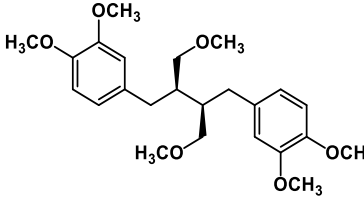
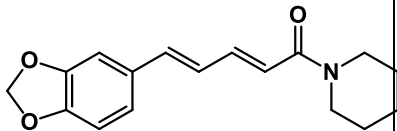
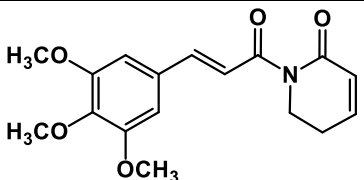
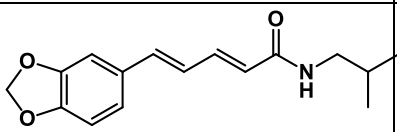
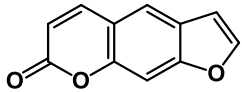
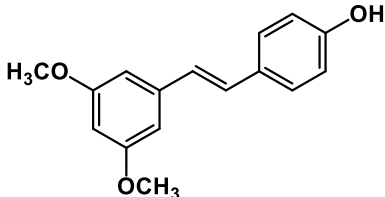
20	Azadiradione	Azadirachta indica		26241-51-0	grams	Available	Neuro degenerative
21	Azadirone	Azadirachta indica		25279-67-8	grams	Available	
22	Bakuchiol	Psoralea corylifolia		10309-37-2	grams	Available	Anti-acne, Skin whitening
23	Bisdemethoxycurcumin	Curcuma longa		24939-16-0	grams	Available	Anti-oxidant, Anti-inflammatory
24	Boswellic acid,(α + β)	Boswellia serrate		471-66-9(a) 631-69-6(b)	grams	Available	Anti-inflammatory
25	Camptothecine	Mappia foetida		7689-03-4	grams	Available	Anti-cancer

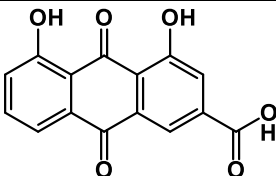
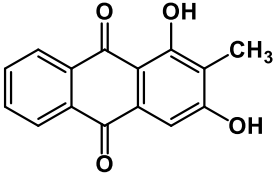
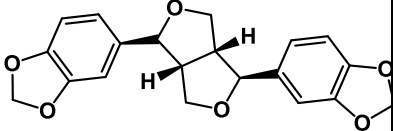
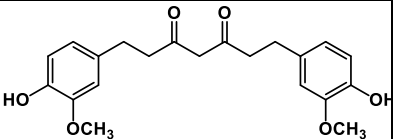
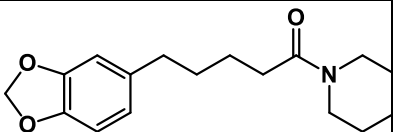
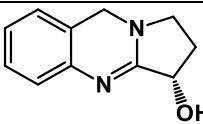
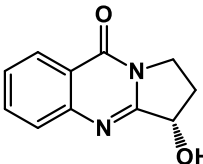
26	Conessine (Wrightine;Nervine;)	Holarrhena antidyssentrica		546-06-5	grams	Available	Anti-histamine
27	Curcumin	Curcuma longa		458-37-7	grams	Available	Anti-oxidant, Anti-inflammatory
28	Demethoxycurcumin	Curcuma longa		22608-11-3	grams	Available	Anti-oxidant, Anti-inflammatory
29	Demethylwedelolactone	Eclipta alba		6468-55-9	grams	Available	Hepatoprotective, Anti-cancer
30	Epoxyazadiradione	Azadirachta indica		18385-59-6	grams	Available	Anti-cancer
31	Forskolin	Coleus forskohlii		66575-29-9	grams	Available	Skin conditioning, Anti-aging

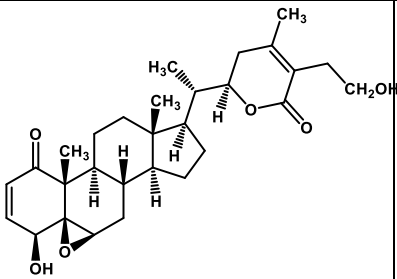
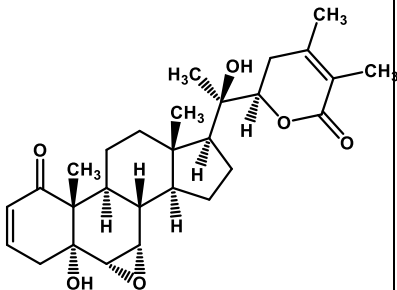
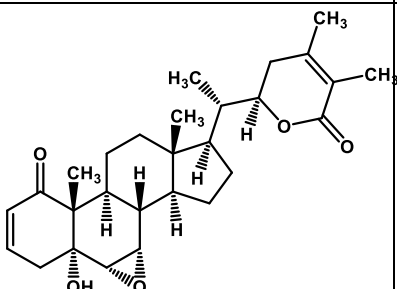
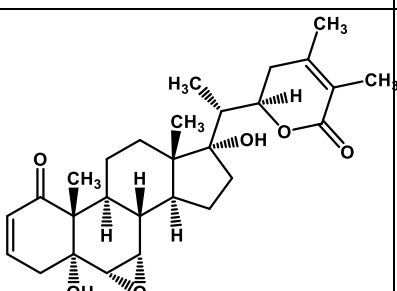
32	Gedunin	Azadirachta indica		2753-30-2	grams	Available	Anti-cancer
33	Guggulsterone-E	Commiphora mukul		39025-24-6	grams	Available	Cholesterol lowering
34	Guggulsterone-Z	Commiphora mukul		39025-23-5	grams	Available	Cholesterol lowering
35	Guggulsterone (E+Z)	Commiphora mukul			grams	Available	Cholesterol lowering
36	Hypophyllanthin	Phyllanthus amarus		33676-00-5	grams	Available	Hepatoprotective
37	Isoalantolactone	Inula racemosa		470-17-7	grams	Available	Neuro degenerative

38	Isoandrographolide	Andrographis paniculata			grams	Available	NAFLD, Hepatoprotective, NASH
39	Lupeol (Clerodol;Fagarsterol)	Crataeva nurvala		545-47-1	grams	Available	Anti-cancer, Anti-HIV
40	Lysergol	Ipomoea hederacea		602-85-7	grams	Available	Serotonin receptor activity
41	Madecassic acid	Centella asiatica		18449-41-7	grams	Available	

42	Madecassoside	Centella asiatica		34540-22-2	grams	Available	
43	Muristerone A (Mur A)	Ipomoea hederacea		38778-30-2	grams	Available	Gene expression
44	Neoandrographolide (Andrographolide, Neo)	Andrographis paniculata		27215-14-1	grams	Available	NAFLD, Hepatoprotective, NASH
45	Nimbolide	Azadirachta indica		25990-37-8	grams	Available	Anti-cancer

46	Niranthin	Phyllanthus amarus		50656-77-4	grams	Available	Hepatoprotective
47	Phyllanthin	Phyllanthus amarus		10351-88-9	grams	Available	Hepatoprotective
48	Piperin	Piper nigrum		94-62-2	grams	Available	Bioavailability enhancer
49	Piperlongumine	Piper longum		20069-09-4	grams	Available	Anti-cancer, neurodegenerative
50	Piperlonguminine	Piper longum		5950-12-9	grams	Available	Alzheimers and Anti-cancer
51	Psoralen	Psoralea corylifolia		66-97-7	grams	Available	Vitiligo, psoriasis
52	Pterostilbene	Pterocarpus marsupium		537-42-8	grams	Available	Anti-oxidant

53	Rhein	Aloe barbadensis		478-43-3	grams	Available	
54	Rubiadin (2-Methylxanthopurpurin)	Rubia cordifolia		117-02-2	grams	Available	Hepatoprotective
55	Sesamin (Fagarol)	Sesamum indicum		607-80-7	grams	Available	Anti-oxidant, Anti-inflammatory, cholesterol lowering
56	Tetrahydrocurcumin	Curcuma longa		36062-04-1	grams	Available	Skin whitening, Anti-oxidant, Anti-aging, UV-B protectant
57	Tetrahydropiperin	Piper nigrum/Piper longum		23434-88-0	grams	Available	Permeation enhancer
58	Vasicine (Peganine)	Adhatoda vasica		6159-55-3	grams	Available	Bronchodilator activity, Anti-tubercular, Cytotoxic activity
59	Vasicinone	Adhatoda vasica		486-64-6	grams	Available	Bronchodilator activity, Anti-tubercular, Cytotoxic activity

60	Withaferin A	Withania somnifera		5119-48-2	grams	Available	Anti-cancer, Neuro degenerative
61	Withanolide A	Withania somnifera		32911-62-9	grams	Available	Neuro degenerative
62	Withanolide B	Withania somnifera		56973-41-2	grams	Available	Neuro degenerative
63	Withanone	Withania somnifera		27570-38-3	grams	Available	Anti-cancer, Neuro degenerative

