

## Presence of Compounds in Picao preto (*Bidens pilosa*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Aesculetin	Coumarin	Entire Plant	Egypt	00.03%	K08651
Amyrin, beta:	Triterpene	Entire Plant	Egypt	00.03075%	K08651
Aurone, 3'-4'-6-7-tetrahydroxy: cis:6-o-(6-o-acetyl-beta-d-glucopyranoside)	Flavonoid	Leaf	Japan	00.0045%	H07457
Aurone, 3'-4'-6-7-tetrahydroxy: cis:6-o-(6-o-para-coumaroyl-beta-d-glucopyranoside)	Flavonoid	Leaf	Japan	00.003%	H07457
Aurone, 3'-4'-6-7-tetrahydroxy: cis:6-o-beta-d-glucopyranoside	Flavonoid	Leaf	Japan	00.00975%	H07457
Aurone, 3'-4'-6-7-tetrahydroxy: cis: 7-o-beta-d-glucopyranoside	Flavonoid	Leaf	Japan	00.0008%	H07457
Aurone,6-o-(2"-4"-6"-triacetyl-beta-d-gluco- pyranosyl)-3'-4'-6-7-tetrahydroxy: cis:	Flavonoid	Aerial Parts	China	00.00085%	H23546
Aurone,6-o-(3"-4"-6"-triacetyl-beta-d-gluco- pyranosyl)-3'-4'-6-7-tetrahydroxy: cis:	Flavonoid	Aerial Parts	China	00.00030%	H23546
Aurone,6-o-(4"-6"-diacetyl-beta-d -glucopyranosyl)-3'-4'-6 -7-tetrahydroxy:	Flavonoid	Aerial Parts	China	00.00181%	H23546
Behenic acid	Lipid	Leaf	Philippines	Not stated	H16059
Borneol	Monoterpene	Leaf Essential Oil	Japan	02.00%	M31438
Butanedioic acid	Alkane to c4	Aerial Parts	China	00.00181%	H23546
Butoxy-2-ethanol	Alkanol to c4	Entire Plant	Taiwan	00.00026%	H28235
Butoxy-2-ethyl-linoleate	Lipid	Entire Plant	Taiwan	00.00082%	H28235
Butoxy-2-ethyl-linolenate	Lipid	Entire Plant	Taiwan	00.00064%	H28235
Butoxy-2-ethyl-oleate	Lipid	Entire Plant	Taiwan	00.00075%	H28235
Cadinol, alpha:	Sesquiterpene	Leaf Essential Oil	Japan	11.00%	M31438

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Caffeine	Alkaloid	Aerial Parts	England	Not stated	L09755
Capric acid	Lipid	Entire Plant	Egypt	Not stated	K08651
Caryophyllene, beta:	Sesquiterpene	Leaf Essential Oil Leaf Essential Oil	Cameroon Japan	Not stated 73.00%	J16663 M31438
Coumaric acid, para: 4-o-(2-o-acetyl -6-o-para-coumaroyl-beta-d-glucopyranoside)	Phenylpropanoid	Leaf Aerial Parts	Japan China	00.01% 00.00054%	H07457 H23546
Coumaric acid, para: 4-o-(6 -o-para-coumaroyl-beta-d-glucopyranoside)	Phenylpropanoid	Leaf	Japan	00.0045%	H07457
Daucosterol	Steroid	Entire Plant	Egypt	00.045%	K08651
Elaidic acid	Lipid	Leaf	Philippines	Not stated	H16059
Erythronic acid, 2-o-caffeoyl-2-c-methyl-d:	Phenylpropanoid	Leaf	Japan	00.0007%	H10046
Erythronic acid, 2-o-caffeoyl-2-c-methyl-d: methyl ester	Phenylpropanoid	Leaf	Japan	00.000305%	H10046
Erythronic acid, 3-o-caffeoyl-2-c-methyl-d: methyl ester	Phenylpropanoid	Leaf	Japan	00.00065%	H10046
Erythrono-1-4-lactone, 3-o-caffeoyl-2-c-methyl-d:	Phenylpropanoid	Leaf	Japan	00.0015%	H10046
Friedelan-3-beta-ol	Triterpene	Aerial Parts	Switzerland	Not stated	K08422
Friedelin	Triterpene	Aerial Parts	Switzerland	Not stated	K08422
Germacrene d	Sesquiterpene	Leaf Essential Oil Leaf Essential Oil	Cameroon Japan	Not stated 73.00%	J16663 M31438
Hepta-1-3-5-triyn, 1-phenyl:	Benzenoid	Entire Plant Leaf Essential Oil Aerial Parts	USSR Cameroon China	Not stated Not stated 00.00127%	T11657 J16663 H23546
Hepta-2-4-6-triyn, 7-phenyl:	Benzenoid	Leaf	Canada	Not stated	T04807
Hoslundin, 5-o-methyl:	Flavonoid	Aerial Parts	England	Not stated	L09755
Inositol, l:	Carbohydrate	Leaf + Stem	France	Not stated	A14608

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Lauric acid	Lipid	Entire Plant	Egypt	Not stated	K08651
Limonene	Monoterpene	Leaf Essential Oil	Japan	10.00%	M31438
Linoleic acid	Lipid	Aerial Parts Entire Plant	Switzerland Taiwan	Not stated 00.00028%	K08422 H28235
Linoleic acid ethyl ester	Lipid	Entire Plant	Taiwan	00.00073%	H28235
Linolenic acid	Lipid	Aerial Parts Entire Plant	Switzerland Taiwan	Not stated 00.00033%	K08422 H28235
Linolenic acid methyl ester	Lipid	Entire Plant	Taiwan	00.0007%	H28235
Lupeol	Triterpene	Entire Plant	Egypt	00.005%	K08651
Lupeol acetate	Triterpene	Entire Plant	Egypt	00.006%	K08651
Luteolin	Flavone	Aerial Parts	China	00.00027%	H23546
Muurolol, t:	Sesquiterpene	Leaf Essential Oil	Japan	11.00%	M31438
Myristic acid	Lipid	Entire Plant	Egypt	Not stated	K08651
Okanin-3'-4'-diglucoside	Flavonoid	Flowers	Germany	00.01%	M22213
Okanin-3'-glucoside	Flavonoid	Flowers	Germany	00.102%	M22213
Okanin-3'-o-beta-d-glucoside	Flavonoid	Leaf	Germany(cul t)	00.00840%	T14184
Okanin-4'-(6"-o-acetyl)-glucoside	Flavonoid	Flowers	Germany	00.012%	M22213
Okanin-4'-diglucoside	Flavonoid	Flowers	Germany	00.046%	M22213
Okanin-4'-glucoside	Flavonoid	Flowers	Germany	00.02%	M22213
Okanin-4'-o-beta-d-(2''-4''-6''-tri acetyl)-glucoside	Flavonoid	Leaf	Germany(cul t)	00.01760%	T14184
Okanin-4'-o-beta-d-(2''-4''-diacetyl-6''-trans-para-coumaroyl)-glucoside	Flavonoid	Leaf	Germany	Not stated	M17399

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Okanin-4'-o-beta-d-(3''-4''-diacetyl-6''-trans-para-coumaroyl)-glucoside	Flavonoid	Leaf	Germany	Not stated	M17399
Okanin-4'-o-beta-d-(4''-acetyl-6''-trans-para-coumaroyl)-glucoside	Flavonoid	Leaf	Germany	Not stated	M17399
Okanin-4'-o-beta-d-(6''-trans-para-coumaroyl)-glucoside	Flavonoid	Leaf	Germany(cult)	00.00210%	T14184
Okanin-4'-o-beta-d-glucopyranoside	Flavonoid	Leaf	Japan	00.00065%	H07457
Okanin-4-methyl ether 3'-o-beta-d-glucoside	Flavonoid	Leaf	Germany	00.00460%	M18081
Okanin,iso: 7-o-beta-d-(2''-4''-6'' flavone -triacetyl)-glucopyranoside		Aerial Parts	China	00.001%	H23546
Okanin-4'-o-beta-d-(3''-4''-6''-tri acetyl)-glucopyranoside	Flavonoid	Aerial Parts	China	00.00027%	H23546
Okanin-4'-o-beta-d-(4''-6''-diacetyl)- glucopyranoside	Flavonoid	Aerial Parts	China	00.000909%	H23546
Palmitic acid	Lipid	Entire Plant	Egypt	Not stated	K08651
Palmitoleic acid	Lipid	Entire Plant	Egypt	Not stated	K08651
Phenylacetylene		Root	Brazil	Not stated	AE1006
Phenylhepta-1-3-5-triyne	Benzenoid	Flower + Fruit + Leaf Entire Plant	France Mexico	Not stated 00.00370%	T14775 H20010
Phenylheptatriyne	Benzenoid	Aerial Parts Leaf Entire Plant	Switzerland Canada Not Stated	Not stated Not stated Not stated	K08422 N16264 N06661
Phenyl-1, 3-diyn-5-en-7-ol-acetate, 1:		Root	Brazil	Not stated	J11673
Phenyl-1-hepta-1-3-5-triyne	Benzenoid	Entire Plant	Taiwan	00.00064%	H28235
Phenyl-1-hepta-cis-5-ene-1-3-diyne	Benzenoid	Entire Plant	Taiwan	00.00008%	H28235
Phenylethanol, 2:	Benzenoid	Entire Plant	Taiwan	00.00037%	H28235
Phytanoic acid	Lipid	Entire Plant	Taiwan	00.0002%	H28235

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Phytol	Diterpene	Entire Plant	Taiwan	00.0007%	H28235
Phytol heptanoate	Diterpene	Leaf	Philippines	Not stated	H16059
Pilosola a	Benzenoid	Entire Plant	Taiwan	00.00053%	H28235
Precocene I	Oxygen heterocycle	Leaf Essential Oil	Cameroon	Not stated	J16663
Pyranose, beta-d-glucose	Flavonoid	Root	Brazil	Not stated	AE1006
Pyranose, alpha-l-rhamnopyranosyl-(1-6)-beta-d-glucosyl-	Flavonoid	Root	Brazil	Not stated	AE1006
Quercetin-3-3'-dimethyl ether-7-o-alpha-l-rhamnopyranosyl-(1-6)-beta-d-glucopyranoside	Flavonol	Root	Brazil	00.0056%	H22078
Quercetin-3-3'-dimethyl ether-7-o-beta-d-glucopyranoside	Flavonol	Root	Brazil	00.00116%	H22078
Quercetin-3-4'-dimethyl ether 7-o-rutinoside	Flavonol	Aerial Parts	China	00.00072%	H23546
Quercitrin, iso:	Flavonol	Leaf	Japan	00.0012%	H07457
Sandaracopimara-8(14)-15-diene-7-alpha-18-diol	Diterpene	Leaf	Rwanda	Not stated	K17419
Sitosterol, beta:	Steroid	Entire Plant	Taiwan	00.00071%	H28235
Squalene	Triterpene	Leaf Entire Plant	Philippines Taiwan	Not stated 00.00075%	H16059 H28235
Stigmasterol	Steroid	Leaf Entire Plant	Philippines Taiwan	Not stated 00.00071%	H16059 H28235
Stigmast-7-en-3-beta-ol, 5-alpha:	Steroid	Entire Plant	Taiwan	00.00004%	H28235
Stigmasta-7-22-dien-3-beta-ol, 5-alpha:	Steroid	Entire Plant	Taiwan	00.00017%	H28235
Tannic acid	Tannin	Aerial Parts	Cuba	Not stated	L18036
Tetradec-trans-6-ene-8-10-12-triene 3-hydroxy: beta-d-glucopyranosyl-oxy	Alkenynol c5 or more	Entire Plant	Mexico	00.01058%	H20010
Tetradec-trans-6-ene-8-10-12-triene, 3-beta-d-glucopyranosyl-oxy-1-hydroxy:	Alkenynol c5 or more	Aerial Parts	USA-FL	Not stated	L08341

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Tocopherolquinone, alpha:	Quinoid	Entire Plant	Taiwan	00.000355	H28235
Tridec-5-ene-7-9-11-triyn-3-ol	Alkenynol c5 or more	Root	Egypt	Not stated	K08651
Trideca-2-12-diene-4-6-8-10-tetrayn -1-ol	Alkenynol c5 or more	Root	Egypt	Not stated	K08651
Trideca-3-11-diene-5-7-9-triyn-1-2 -diol	Alkenynol c5 or more	Root	Egypt	Not stated	K08651
Trideca-trans-ene-3-5-7-tetrayn-1-2-diol 2-o-beta-glucoside	Alkenynol c5 or more	Leaf	Brazil	Not stated	L04335
Tridec-trans-5-ene-7-9-11-triyn, 2-beta-d-glucopyranosyl-oxy-1-hydroxy	Alkenynol c5 or more	Aerial Parts	USA-FL	Not stated	L08341
Tridecapentayn-1-ene	Alkenyne c5 or more	Root	Egypt	Not stated	K08651
Vanillic acid	Benzenoid	Aerial Parts	England	Not stated	L09755

**OTHER PHYTOCHEMICAL SCREENING:**

ALKALOIDS ABSENT	AERIAL PARTS	J08936
	FRUIT	J08936
ALKALOIDS PRESENT	LEAF	L16047

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