

Table S1. Phytochemical analysis of methanolic leaf extract of *Azadirachta indica* using gas chromatography-mass spectrometry.

S. No.	RT	Name of the compound	Molecular Formula	Molecular weight	Peak area (%)
1.	34.4	D-Glucose, 4-O-à-D-glucopyranosyl	C ₁₂ H ₂₂ O ₁₁	342	13.03
2.	36.93	Phytol	C ₂₀ H ₄₀ O	296	8.31
3.	20.63	5-(1-Ethoxy-ethoxy)-4-methyl-hex-2-enal	C ₁₁ H ₂₀ O ₃	200	6.73
4.	19.7	Heptasiloxane-tetradecamethyl	C ₁₄ H ₄₄ O ₆ Si ₇	504	4.86
5.	24.13	Cycloheptasiloxane, tetradecamethyl	C ₁₄ H ₄₂ O ₇ Si ₇	518	4.4
6.	37.35	Pseudosolasodine diacetate	C ₃₁ H ₄₉ NO ₄	499	3.32
7.	36.71	5,8,11,14-Eicosatetraenoic acid, methyl ester	C ₂₁ H ₃₄ O ₂	318	2.95
8.	42.18	Phenol, 2,2'-methylenebis[6-(1,1-dimethylethyl)-4-methy	C ₂₃ H ₃₂ O ₂	340	2.85
9.	14.18	Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one	C ₆ H ₈ O ₄	144	2.58
10.	34.53	Glyceryl monolinoleate	C ₂₇ H ₅₄ O ₄ Si ₂	498	2.42
11.	34.53	1-Monolinoleoylglycerol trimethylsilyl ether	C ₂₇ H ₅₄ O ₄ Si ₂	498	2.42
12.	34.03	Estra-1,3,5(10)-trien-17à-ol	C ₁₈ H ₂₄ O	256	2.17
13.	34.05	l-(+)-Ascorbic acid 2,6-dihexadecanoate	C ₃₈ H ₆₈ O ₈	652	2.17
14.	28.08	Cyclooctasiloxane, hexadecamethyl	C ₁₆ H ₄₈ O ₈ Si ₈	295	2.14
15.	29.79	Octahydro-2(1H)-quinolinone	C ₉ H ₁₅ NO	153	2.08
16.	33.39	Hexadecanoic acid, methyl ester	C ₁₇ H ₃₄ O ₂	270	2.08
17.	31.49	Heptasiloxane, hexadecamethyl	C ₁₆ H ₄₈ O ₆ Si ₇	532	1.64
18.	36.38	Oleic Acid	C ₁₈ H ₃₄ O ₂	282	1.39
19.	16.55	Benzofuran, 2,3-dihydro	C ₈ H ₈ O	120	1.38
20.	52.38	5à-Pregn-16-en-20-one, 3à,12à-dihydroxy-diacetate	C ₂₅ H ₃₆ O ₅	416	1.38
21.	39.87	Glycine, N-[(3à,5à,7à,12à)-24-oxo-3,7,12tris[(trimethylsilyl)oxy]cholan-24-yl]-, methyl ester	C ₃₆ H ₆₉ NO ₆ Si ₃	695	1.27
22.	52.04	Carotene, 1,1',2,2'-tetrahydro-1,1'-dimethoxy	C ₄₂ H ₆₄ O ₂	600	0.9
23.	43.50	Dasycarpidan-1-methanol, acetate (ester)	C ₂₀ H ₂₆ N ₂ O ₂	326	0.85
24.	40.76	9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, 25-[(trimethylsilyl)oxy]-, (3à,5Z,7E)	C ₃₀ H ₅₂ O ₃ Si	488	0.8
25.	19.3	2-Methoxy-4-vinylphenol	C ₉ H ₁₀ O ₂	150	0.69
26.	18.13	Ergosta-5,22-dien-3-ol, acetate	C ₃₀ H ₄₈ O ₂	440	0.65

27.	43.04	Ethyl 5,8,11,14,17-icosapentaenoate	C ₂₂ H ₃₄ O ₂	330	0.65
28.	26.84	à-D-Glucopyranoside, methyl 2-(acetylamino)-2-deoxy-3-O-(trimethylsilyl)-, cyclic methylboronate	C ₁₃ H ₂₆ BNO ₆ Si	331	0.59
29.	17.13	Octadecanoic acid, 3-hydroxy-, methyl ester	C ₁₉ H ₃₈ O ₃	314	0.58
30.	24.49	Ricinoleic acid	C ₁₈ H ₃₄ O ₃	298	0.58
31.	4.6	1,3,3-Trimethoxybutane	C ₇ H ₁₆ O ₃	148	0.51
32.	23.57	12-Octadecenal	C ₁₈ H ₃₄ O	266	0.55
33.	42.77	Pregn-4-ene-3,20-dione, 17,21-dihydroxy-, bis(O-methyloxime)	C ₂₃ H ₃₆ N ₂ O ₄	404	0.39
34.	38.61	1-Heptatriacotanol	C ₃₇ H ₇₆ O	536	0.32
35.	43.24	Ursodeoxycholic acid	C ₂₄ H ₄₀ O ₄	392	0.32
36.	20.31	2,4-Dimethoxyphenol	C ₈ H ₁₀ O ₃	145	0.3
37.	24.94	Cholestan-3-ol, 2-methylene-, (3à,5à)	C ₂₈ H ₄₈ O	400	0.29
38.	4.78	Geranyl isovalerate	C ₁₅ H ₂₆ O ₂	238	0.27
39.	10.68	Sarreroside	C ₃₀ H ₄₂ O ₁₀	562	0.18
40.	41.58	Retinol	C ₂₀ H ₃₀ O	286	0.18
41.	36.38	Erucic acid	C ₂₂ H ₄₂ O ₂	338	0.17
42.	5.03	5,7-Dodecadiyn-1,12-diol	C ₁₂ H ₁₈ O ₂	194	0.16
43.	38.32	Linoleic acid ethyl ester	C ₂₀ H ₃₆ O ₂	308	0.13
44.	16.92	Pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-6-[2-(4-morpholyl)ethenyl]-5-nitro	C ₁₂ H ₁₆ N ₄ O ₅	296	0.11