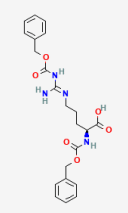
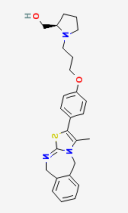
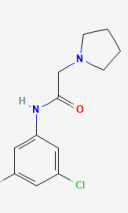
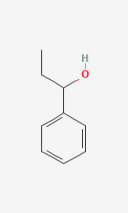
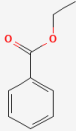
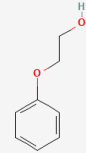
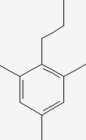
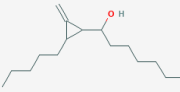
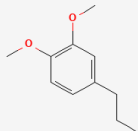
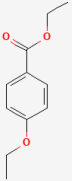
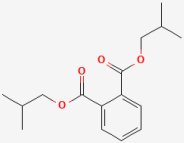
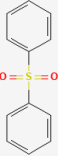
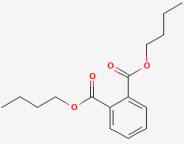
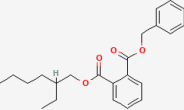
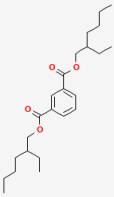
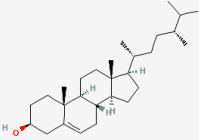
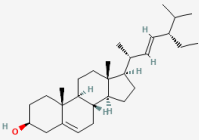
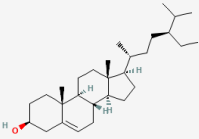


Supplementary Table 1A. Volatile compounds identified from root of untreated brinjal seedlings at 14 days after sowing.


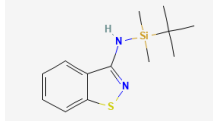
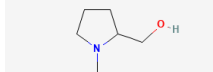
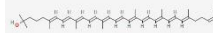
S. No	Retention time (RT)	Peak Area %	Name of the compound	Nature of the compound	Molecular formula of the compound	Structure of the compound	Activity of the compound
1.	5.2090	1.05	N-alpha.,N-omega.-Di-cbz-L-arginine	Amino	C ₂₂ H ₂₆ N ₄ O ₆		Antibacterial
2.	5.7756	14.83	2 Pyrrolidinemethanol, 1-methyl	Alkyl	C ₂₆ H ₃₁ N ₃ O ₂ S		Antimicrobial
3.	6.1311	1.07	Acetamide, N-(3,5-dichlorophenyl)-2-(1-pyrrolidinyl)	Amide	C ₁₂ H ₁₄ Cl ₂ N ₂ O		Antimicrobial
4.	6.4311	2.58	Benzenemethanol, alpha-ethyl	Alcohol	C ₉ H ₁₂ O		Antimicrobial

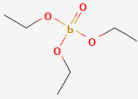
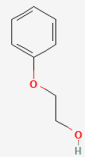

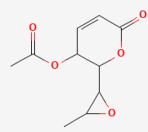
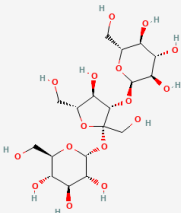
5.	6.6199	1.76	Benzoic acid, ethyl ester	Ester	$C_9H_{10}O_2$		Antimicrobial
6.	7.0977	5.74	Ethanol, 2-phenoxy-	Alcohol	$C_8H_{10}O_2$		Anticancer
7.	8.4197	2.43	Benzene, 1,3,5-trimethyl-2-propyl	Alkene	$C_{12}H_{18}$		Antimicrobial
8.	9.0641	2.48	Cyclopropane, 1-(1-hydroxy-1-heptyl)-2-methylene-3-pentyl	Alkane	$C_{16}H_{30}O$		Antifungal
9.	9.4196	4.48	1,2-Dimethoxy-4-n-propylbenzene	Alkene	$C_{11}H_{16}O_2$		Antiviral

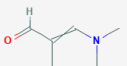
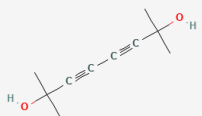
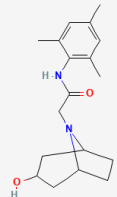
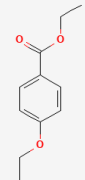
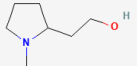
10.	9.8306	27.76	Benzoic acid, 4-ethoxy-, ethyl ester	Ester	$C_{11}H_{14}O_3$		Antifungal
11.	12.3525	2.28	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	Ester	$C_{16}H_{22}O_4$		Antifungal
12.	12.9080	3.91	Diphenyl sulfone	Ketone	$C_{12}H_{10}O_2S$		Antibacterial
13.	12.9969	2.76	Dibutyl phthalate	Acid	$C_{16}H_{22}O_4$		Antimicrobial
14.	16.9520	1.15	Phthalic acid, benzyl 2-ethylhexyl ester	acid	$C_{23}H_{28}O_4$		Antibacterial

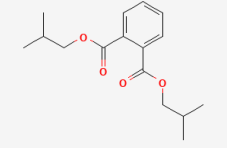
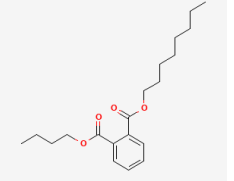
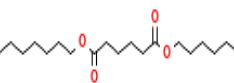
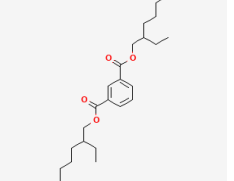
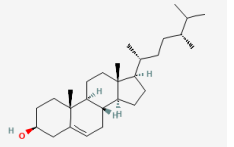
15.	17.4186	2.41	1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	Ester	$C_{24}H_{38}O_4$		Antifungal
16.	21.2847	1.22	Campesterol	sterol	$C_{28}H_{48}O$		Antimicrobial
17.	21.5514	3.15	Stigmasterol	sterol	$C_{29}H_{48}O$		Antiviral; Antimicrobial
18.	22.2846	1.33	Gamma -Sitosterol	sterol	$C_{29}H_{50}O$		Antimicrobial

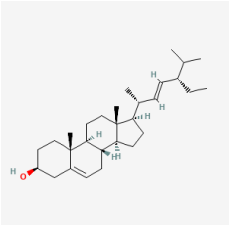
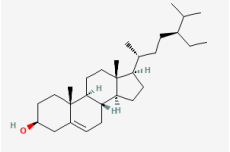
Supplementary Table 1B. Volatile compounds identified from root of fish fermented acid treated brinjal seedlings at 14 days after sowing.

S. No	Retention time (RT)	Peak Area %	Name of the compound	Nature of the compound	Molecular formula of the compound	Structure of the compound	Activity of the compound
1.	4.7758	1.69	Decane	Halogenated alkane	$C_{10}H_{22}$		Antibacterial, Intra and inter-plant communication Attraction or repulsion of parasites
2.	5.3535	1.43	1,2-Benzisothiazol-3-amine	Alcohol	$C_{13}H_{20}N_2SSi$		Antimicrobial
3.	5.7646	33.10	2-Pyrrolidinemethanol, 1-methyl-	Alcohol	$C_6H_{13}NO$		Antibacterial
4.	5.9090	0.96	Rhodopin	Carotene	$C_{40}H_{58}O$		Antioxidant

5.	6.0090	1.06	Triethyl phosphate	Alkyl	$C_6H_{15}O_4P$		Antibacterial
6.	7.0977	2.89	Ethanol, 2-phenoxy-	Alcohol	$C_8H_{10}O_2$		Antifungal
7.	7.1977	4.12	8-Azabicyclo [3.2.1] octan-3-ol, 8-methyl-	Amino acid	$C_8H_{15}NO$		Antimicrobial
8.	8.8419	1.15	5,6-Dihydropyran-2-one, 5-acetoxy-6-(1,2-epoxypropyl)-	Acid	$C_{10}H_{12}O_5$		Antifungal
9.	9.0086	2.26	Alpha -D- Glucopyranoside	Saccharide	$C_{18}H_{32}O_{16}$		Antimicrobial

10.	9.0641	3.54	3-(Dimethylamino)-2-methyl-2-propenal	Amino	$C_6H_{11}NO$		Antibacterial
11.	9.4196	1.65	2,7-Dimethyloctadiyne-3,5-diol-2,7		$C_{10}H_{14}O_2$		Antimicrobial
12.	9.5196	1.04	Acetamide	Amide	$C_{18}H_{26}N_2O_2$		Antibacterial, Antifungal
13.	9.8307	3.43	Benzoic acid, 4-ethoxy-, ethyl ester	Ester	$C_{11}H_{14}O_3$		Antimicrobial
14.	11.1528	4.21	1-Methyl-2-pyrrolidineethanol	Alcohol	$C_7H_{15}NO$		Antifungal

15.	12.3526	1.15	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	Ester	$C_{16}H_{22}O_4$		Antimicrobial
16.	12.9970	1.19	1,2-Benzenedicarboxylic acid, butyl octyl ester	Ester	$C_{20}H_{30}O_4$		Antibacterial
17.	15.5633	0.73	Hexanedioic acid, dioctyl ester	Ester	$C_{22}H_{42}O_4$		Antibacterial, antifungal
18.	17.4186	1.93	1,2-Benzenedicarboxylic acid, bis (2-ethylhexyl) ester	Ester	$C_{24}H_{38}O_4$		Antimicrobial, Insecticidal activity
19.	21.2737	3.79	Campesterol	sterol	$C_{28}H_{48}O$		Antimicrobial; antifungal

20.	21.5514	9.70	Stigmasterol	sterol	$C_{29}H_{48}O$	 The chemical structure of Stigmasterol is a steroid with a hydroxyl group at C-3, a double bond at C-5, and a side chain at C-17 consisting of a propene ring and an ethyl group. Stereochemistry is indicated with wedges and dashes.	Antimicrobial
21.	22.2847	4.25	Gamma - Sitosterol	sterol	$C_{29}H_{50}O$	 The chemical structure of Gamma-Sitosterol is a steroid with a hydroxyl group at C-3, a double bond at C-5, and a side chain at C-17 consisting of a propene ring and an ethyl group. Stereochemistry is indicated with wedges and dashes.	Antimicrobial