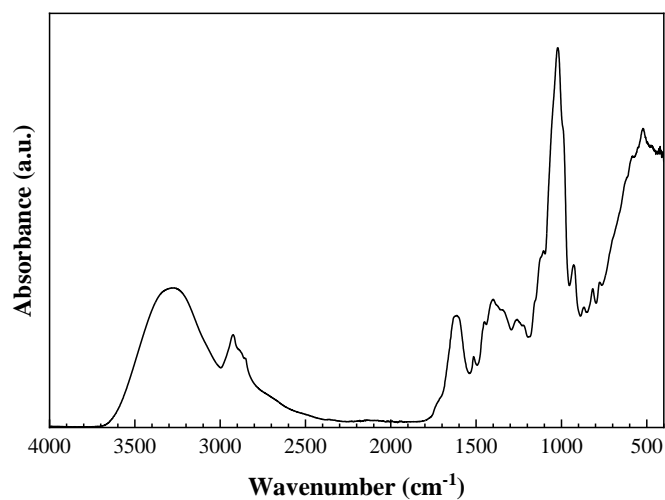
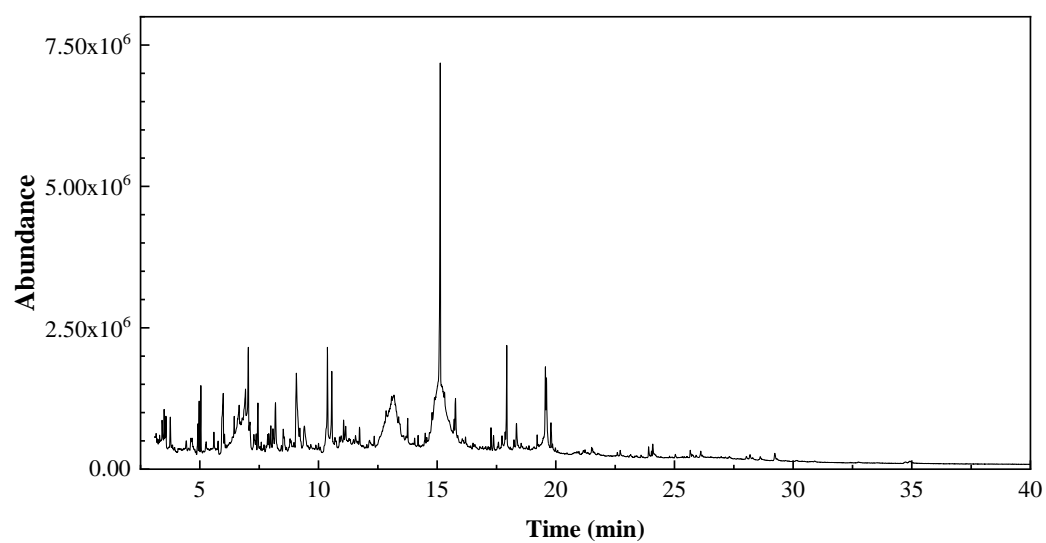


## Supplementary Material

### Figures:



**Figure S1.** ATR-FTIR spectrum of freeze-dried garlic peel extract.



**Figure S2.** GC-MS chromatogram of garlic peel extract.

**Table:****Table S1.** Phytochemicals identified in garlic peel extract by GC-MS.

RT (min)	Area (%)	Assignment
3.4134	0.4254	Cycloserine
3.4965	0.2739	2,3-Butanediol
3.5736	0.2421	2,3-Butanediol
3.8466	0.1192	3-Butenoic acid
4.3334	0.1056	2,6-Naphthalenediol, 1,5-bis[[3-(4methylpiperazino)propylimino]methyl]-
4.4283	0.2612	Disulfide, methyl 2-propenyl
4.5233	0.1443	Thiocarbamic acid, N,N-diethyl-S-(diethylamino)-
4.6242	0.2759	Dihydroxyacetone
4.6717	0.3299	1,3-Dihydroxyacetone dimer
4.9150	0.3122	1H-Imidazole, 4,5-dihydro-2-methyl-
4.9684	0.5138	Cyclobutane, methyl-
5.0397	0.5749	2-Cyclopenten-1-one, 2-hydroxy-
5.2652	0.2897	Thiazole, 2-amino-4-(p-aminophenyl)-
5.5916	0.4059	Rhodanine
5.9834	1.3997	2-Hydroxy-gamma-butyrolactone
6.0368	0.2707	Carbamic acid, acetylthio-, O-methyl ester
6.1021	0.1337	Erythritol
6.2504	0.4578	3(5)-[[1,2-Dihydroxy-3-propoxy]methyl]-4-hydroxy-1H-pyrazole-5(3)-carboxamide
6.3929	0.6682	Glycerin
6.4463	0.5326	1,2-Cyclopentanedione, 3-methyl-
6.6540	2.2861	Erythritol
6.7075	0.4125	Glycerin
6.7846	1.0353	Glycerin
6.9211	2.0824	Glycerin
7.0399	2.1112	Zinc, di-2-propenyl-
7.2773	0.5297	Mequinol
7.3722,	0.2494	Butanoic acid, 3-hydroxy-
7.4494,	0.6923	1,3-Propanediamine, N-methyl-
7.5384,	0.1132	Furan, 2,3-dihydro-2,5-dimethyl-
7.5859,	0.1416	Heptanoic acid, 2-methyl-2-butyl ester
7.7046	0.1588	1,3-Cyclopentanedione, 2,4-dimethyl-
7.7936,	0.1289	1-Acetoxynonadecane
7.8589	0.2963	Benzenamine, 3-(1,2,3-thiadiazol-4-yl)-
7.9064	0.2577	Oxirane, 2-methyl-2-pentyl-
7.9895	0.4428	3,4-Di-O-methyl-L-arabinopyranose
8.0845,	0.5065	Ethanamine, N-ethyl-N-nitroso-
8.1854	1.1643	4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl-
8.4406	0.1660	3-Cyclopentene-1,2-diol, cis

**Table S1.** Continued.

8.5177	0.3481	Glutamine
8.5593	0.2912	Benzoic acid
8.6542	0.1357	Octanal
9.0697	2.3910	Catechol
9.2122	0.6179	Catechol
9.4021	1.1985	5-Hydroxymethylfurfural
9.5564	0.1799	4-Hydroxy-N-methylpiperidine
9.6751	0.3352	Ethene, 1-(dimethylamino)-1-(trifluoromethyl)-
9.7760	0.1120	Heptadecyl acetate
10.3814	2.3389	Trisulfide, di-2-propenyl
10.5595	1.7398	2-Methoxy-4-vinylphenol
10.6960	0.2969	1H-Indole, 5-methyl-2-phenyl-
10.7435	0.2958	Diallyl sulfide
10.8859	0.3223	Phthalic acid, dec-2-yl isobutyl ester
10.9572	0.5781	4-Acetylbutyric acid
11.0581	0.4846	Phenol, 2,6-dimethoxy-
11.1471	0.9125	Eugenol
11.2895	0.3270	1H-1,2,3-Triazole-4-carboxylic acid, 1-(4-amino-1,2,5-oxadiazol-3-yl)-5-propyl
11.3311	0.3555	1H-Imidazole-4-methanol, 5-methyl-
11.4795	0.4748	2-Cyclohexen-1-one, 4-hydroxy-
11.5626	0.5516	1,3-Benzenediol, 4-ethyl-
11.6575	0.2015	6,7-Dimethyl-triazolo(2,3-b)(1,2,4)-triazine
11.7287	0.6449	Vanillin", 25795,"000121-33-5",97
12.1502	0.5838	Benzeneethanol, 4-hydroxy-
12.3460	0.4143	trans-Isoeugenol", 33251,"005932-68-3",96
12.7852	2.2128	1,3-Dioxane-5-methanol, 5-ethyl-
13.5865	0.4189	2-Methyl-9-.beta.-d-ribofuranosylhypoxanthine
13.6933	0.5167	N-n-Butylpropionamide
13.7586	0.8660	2,3,5,6-Tetrafluoroanisole
13.9782	0.2996	5,9-Undecadien-2-one, 6,10-dimethyl-, (E)
14.0494	0.3947	$\alpha$ -Amino-3'-hydroxy-4'-methoxyacetophenone
14.1978	0.3817	4-Thiazolecarboxaldehyde, 5-(3,4-dimethoxyphenyl)-2,3-dihydro-2-thioxo-
14.3996	0.2498	Ethanethioic acid, S-(tetrahydro-2H-pyran-3-yl) ester
14.4946	0.4589	2,2-Dimethyl-4-ethynyl-tetrahydrothiopyran-4-ol
14.5658	0.3110	Ethanethioic acid, S-(tetrahydro-2H-pyran-3-yl) ester
14.6845	0.6382	D-glycero-D-gulo-Heptonic acid, .delta.-lactone
14.7854	1.0651	3-Deoxy-d-mannonic lactone
14.8923	1.6030	Lactose
15.1297	9.5062	Pyrimidine, 4-methyl-6-phenyl-
15.1890	2.5523	Butanoic acid, 3-oxo-, 1-methylethyl ester
15.3137	4.5611	d-Glycero-l-gluco-heptose

**Table S1.** Continued.

15.7173	0.6401	2-Butylamino-3,5-dinitropyridine
15.7707	1.1815	4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol
15.8716	0.7836	d-Glycero-d-galacto-heptose
16.0615	0.5441	2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-
16.1980	0.6687	Carbamic acid, (3-methoxyphenyl)-, methyl ester
16.4176	0.1837	3H-Indole, 3-ethyl-2,3-dimethyl-
16.5126	0.2229	2-Bornanone oxime
16.6610	0.2215	3,6-Diazahomoadamantan-9-one Oxime
16.8034	0.2681	(2Z)-3-Amino-3-[(2-hydroxyethyl)sulfanyl]-2-propene-1,1,2-tricarbonitrile
16.9162	0.1812	d-Talonic acid lactone
17.3791	0.3413	Ethanol, 2-([1,1'-biphenyl]-2-yloxy)-
17.5394	0.1312	Bicyclo[2.2.1]heptan-2-one, 4,7,7-trimethyl-, semicarbazone
17.5810	0.2295	Hexadecanoic acid, methyl ester
17.7353	0.5673	Cyclododecane
17.8658	0.4040	2,5-Pyrrolidinedione, 1-[2-(1-pyrrolydinyldicarbonyl)ethyl]-
17.9311	1.4507	n-Hexadecanoic acid
18.2398	0.3774	Hexadecanoic acid, ethyl ester
18.3407	0.8581	4-Ethoxy-2,5-dimethoxybenzaldehyde
18.5425	, 0.2792	2-Propenoic acid, 3-(3,4,5-trimethoxyphenyl)-, methyl ester
18.6018	0.1212	d-Talonic acid lactone
18.7621	0.2230	Oleic Acid
18.8689	0.2051	Octadec-9-enoic acid
18.9817	0.1278	Cyclopentadecanone, 2-hydroxy-
19.0885	0.2542	cis-9-Hexadecenal
19.2131	0.3013	Methyl 9-cis,11-trans-octadecadienoate
19.2606	0.1382	6-Octadecenoic acid
19.3556	0.2349	9-Octadecenoic acid (E)
19.5633	1.8715	9,12-Octadecadienoic acid (Z,Z)-
19.6049	1.4929	9-Octadecenoic acid, (E)-
19.7948	0.5134	Octadecanoic acid
19.8601	0.2183	Cyclopentadecanone, 2-hydroxy-
22.7150	0.1260	Hexadecanoic acid, 2-hydroxy-1-(hydroxymethyl)ethyl ester
24.0860	0.3520	1,3,12-Nonadecatriene
25.6708	0.1633	Dihydrocapsaicin
25.7479	0.1441	Estra-1,3,5(10)-triene-3,17-diol, 2-methoxy-, (17 $\beta$ )
28.0330	0.1284	Pyrido[2,3-d]pyrimidine, 4-phenyl-
28.3001	0.1130	(E)-2-bromobutyloxychalcone
28.6147	0.1861	2-Ethylacridine
29.2320	0.1779	$\gamma$ -Sitosterol