

Supplementary materials

Suppl. 1. *Setipinna phasa* oil fatty acids profiling utilizing a gas chromatography-mass spectrometer (GC-MS)

RT	Name of fatty acid	Health beneficial effect	References
40.820	Hexadec-9-enoic acid	Has a potential role against inflammation and cancer management.	Farag and Gad, 2022
40.828	Octadec-11-enoic acid	May have an anti-inflammatory effect.	Reilly et al., 2021
49.528	Octadeca-9,12-dienoic acid	Lowers rats triglycerides, total cholesterol, body weight, oxidative stress, and inflammation, <i>etc.</i>	Salama et al., 2023
50.103	Octadec-7-enoic acid	Intake of trans fatty acid might be helpful in cardiovascular disease, coronary heart disease, high blood pressure, breast cancer, and diabetes.	Gashaw and Getasetegn, 2018
50.303	Octadec-12-enoic acid	Intake of trans fatty acid might be helpful in cardiovascular disease, coronary heart disease, high blood pressure, breast cancer, and diabetes.	Gashaw and Getasetegn, 2018
56.445	(5Z,8Z,11Z,14Z)- icosa-5,8,11,14- tetraenoic acid/Methyl arachidonate	Helps to control normal blood pressure by relaxing the arteries and blood vessels and decreasing blood lipids. It is an important independent marker of metabolic deregulation.	Zhou et al., 2021
56.453	Methyl cis- 7,10,13,16,19- docosapentaenoate	Not reported.	–
56.778	Docosa- 4,7,10,13,16,19- hexaenoic acid	Has many roles in humans, as well as a tremendous effect on foetus brain development, including neuronal, retinal, and immune function. It may also affect cardiovascular function.	Duan et al., 2023; Swanson et al., 2012; Zendedel et al., 2015
64.403	Icosa-5,8,11,14,17- pentaenoic acid/ Methyl cis- 5,8,11,14,17- Eicosapentaenoate	Has many roles in humans, as well as a tremendous effect on foetus brain development, including neuronal, retinal, and immune function, and improved blood circulation. It may also affect cardiovascular function.	Khan et al., 2021; Maulu et al., 2021; Swanson et al., 2012
90.062	(9Z,12Z,15Z)- octadeca-9,12,15- trienoic acid/ Methyl linolenate	Has been linked to numerous positive effects, including the prevention of atherosclerosis, certain cancers, hypertension, and is known to enhance immune function.	Biswas et al., 2022; Carvalho et al., 2010
90.070	Icosa-11,14,17- trienoic acid/ Methyl cis-11,14,17- Icosatrienoate	Not reported.	–