CLAIMS

1. A method of producing a dihomo-γ-linolenic acid-containing microbial oil/lipid comprising substantially no ARA, the method comprising culturing, in a culture medium, a microorganism strain having a mutation in a Δ5 desaturase gene, to produce the dihomo-γ-linolenic acid-containing microbial oil/lipid wherein the microorganism strain has a gene mutation that results in an amino acid substitution of Y310C of SEQ ID NO: 3 of a Δ5 desaturase.

2. The method according to claim 1, wherein the microorganism strain has a base deletion at positions from 2206 to 2234 of SEQ ID NO: 1 of the Δ5 desaturase gene.

3. The method according to claim 1 or 2, wherein the microorganism strain is a strain of a microorganism belonging to the genus *Mortierella*.

4. The method according to claim 1, 2 or 3, wherein the microorganism having the accession number FERM BP-02778 is used as the microorganism strain.

5. The microorganism having accession number FERM BP-02778.