



GB 1903.65-2024

National Food Safety Standard

Food Nutritional Enhancer Arachidonic Acid Oil (Fermentation Method)

食品安全国家标准 食品营养强化剂 花生四烯酸油脂
(发酵法)

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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National Standard of the People's Republic of China

GB 1903.65-2024
In Replacement of GB 26401-2011

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Foreword

This standard replaces GB 26401-2011 “National Food Safety Standard Food Additive Arachidonic Acid Oil (Fermentation Method)”.

Compared with GB 26401-2011, the main changes of this standard are as follows.

——the name of the standard has been changed to “National Food Safety Standard for Food Nutrition Fortifier Arachidonic Acid Oil (Fermentation Method)”;

——the year of the international relative atomic mass has been revised;

——the tissue status requirements in the sensory requirements have been modified;

——the index requirements for solvent residue and peroxide value have been modified;

——the requirements for commercial arachidonic acid oil products in the physical and chemical indicators have been added;

——the other requirements have been deleted;

——the Annex has been deleted;

——the testing methods for content (calculated as $C_{20}H_{32}O_2$ triglyceride), moisture, total arsenic (calculated as As), and lead (Pb) shall refer to the corresponding national standards;

——the reference standards of some test methods have been adjusted to the latest published versions.

National Food Safety Standard**Food Nutritional Enhancer Arachidonic Acid Oil****(Fermentation Method)****1 Scope**

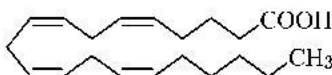
This standard applies to arachidonic acid (ARA) oils produced by biological fermentation using the *Mortierella alpina* strain.

2 Chemical Name, Molecular Formula, Structural Formula and Relative Molecular Mass**2.1 Chemical name**

cis-5,8,11,14-eicosatetraenoic acid

2.2 Molecular formula

C₂₀H₃₂O₂

2.3 Structural formula**2.4 Relative molecular mass**

304.47 (according to the 2018 International Relative Atomic Mass)

3 Technical requirements**3.1 Sensory requirements**

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

Item	Requirement	Testing method
Color	Light yellow	Take 10g of the sample, place it in a test tube, and observe its color and texture by
Odor	Has a unique smell of this product	



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