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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 1903.60-2023

**National Food Safety Standard Food Nutritional Enhancer
L-Carnitine Tartrate**

Issued on: September 6, 2023

Implemented on: March 6, 2024

**Issued by: National Health Commission of the People's Republic of
China, State Administration for Market Regulation**

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472.49 (according to 2018 international relative atomic mass)

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Foreword

This standard replaces GB 25550-2010 "National Food Safety Standard Food Additive L-Carnitine Tartrate".

Appendix A and Appendix B of this standard are normative appendices.

Compared with GB 25550-2010, the main changes in this standard are as follows.

---The name of the standard is modified to "National Food Safety Standard Food Nutritional Enhancer L-Carnitine Tartrate";

---Modified the identification test of L-carnitine;

---Added identification test for tartaric acid;

---The detection methods of L-carnitine and tartaric acid have been modified and the potentiometric titration method has been added;

---Deleted the heavy metal indicator and added the lead indicator and its inspection method;

---Modified the detection method of total arsenic.

National food safety standards

Food nutritional fortifier L-carnitine tartrate

1 Scope

This standard applies to food nutritional supplements produced by the reaction of the food nutritional fortifier L-carnitine and the food additive tartaric acid as the main raw materials.

Chemical agent L-carnitine tartrate.

2.1 Chemical name

(R)-Bis[(3-carboxy-2-hydroxypropyl)trimethylamino]-L-tartrate

2.3 Molecular formula

C₁₈H₃₆N₂O₁₂

3.1 Sensory requirements

Sensory requirements should comply with Table 1.

Table 1 Sensory requirements

Project requirements inspection method

color

state

White

crystalline powder

Take an appropriate amount of sample and place it in a clean, dry white porcelain plate under natural light.

Observe its color and condition below

3.2 Physical and chemical indicators

The physical and chemical indicators should comply with the provisions of Table 2.