



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

GB 1903.79-2025

**National food safety standard - Food nutrition fortifier -
L-Lysine-L-aspartate**

食品安全国家标准 食品营养强化剂 L-赖氨酸 L-天（门）冬氨酸盐

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Foreword

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National food safety standard - Food nutrition fortifier L-Lysine-L-aspartate 1 Scope

This standard applies to L-Lysine-L-aspartate, a food nutrition fortifier, which is produced by fermentation using starch or sugars as raw materials, or by chemical synthesis using L-lysine (or L-lysine salt) and L-aspartic acid as raw materials.

2 Chemical name, molecular formula, structural formula, and relative molecular mass 2.1

Chemical name

L-2,6-Diaminohexanoic acid L-2-aminosuccinate

1 Scope

This standard applies to L-Lysine-L-aspartate, a food nutrition fortifier, which is produced by fermentation using starch or sugars as raw materials, or by chemical synthesis using L-lysine (or L-lysine salt) and L-aspartic acid as raw materials.

2 Chemical name, molecular formula, structural formula, and

relative molecular mass

2.1 Chemical name

L-2,6-Diaminohexanoic acid L-2-aminosuccinate

2.4 Relative molecular mass

279.29 (based on the international relative atomic mass in 2022).

3.1 Sensory requirements

Sensory requirements shall comply with the provisions of Table 1.

Some reagents used in this test method are toxic and corrosive; therefore, caution must be exercised during handling. If splashed onto skin, rinse immediately with water; for severe cases, seek immediate medical attention. When using flammable materials, heating with an open flame is strictly prohibited.

A.2 General provisions

Unless otherwise specified in this standard, all reagents used shall be of analytical grade. Standard titration solutions, standard solutions for impurity determination, preparations, and products used shall be prepared in accordance with the provisions of GB/T 601, GB/T 602, and GB/T 603, respectively. The water used in the tests shall meet the requirements for Grade III water in GB/T 6682. In the test, the solutions used, unless the solvent for preparation is specified, all refer to aqueous solutions.

A.3 Identification test

Infrared identification. The determination of infrared spectroscopic analysis shall be performed in accordance with 6.2 of GB/T 32199 or GB/T 6040. The spectrogram of the sample shall be compared with that of the standard (see Figure B.1 in Appendix B), and the two shall be basically consistent.

A.4 Determination of L-Lysine-L-aspartate (on a dry basis) A.4.1 Method summary