

Contents

Foreword	2
1 Scope	3
2 Terms and definitions	3
3 Technical Requirements	3
4 Label	3

1 Scope

This standard applies to baby formula.

2 Normative References

Reference documents in this standard are indispensable to the application of the standard. For dated reference, only the version with the same date shall apply to the standard. For undated reference, the latest version as well as all the amendments shall apply to the standard.

3 Terms and Definitions

3.1 Infant

Refer to persons of 0-12 months old.

3.2 Infant Formula

3.2.1 Milk-based infant formula: Liquid or powder products mainly made by milk and milk protein products with moderate vitamins, minerals and/or other substances via physical methods, which are appropriate for normal infants, energies and nutritional ingredients of which shall meet normal nutritional needs of 0-6 months old infants.

3.2.2 Bean-based infant formula: Liquid or powder products mainly made by beans and bean protein products with moderate vitamins, minerals and/or other substances via physical methods, which are appropriate for normal infants, energies and nutritional ingredients of which shall meet normal nutritional needs of 0-6 months old infants.

4 Technical Requirements

4.1 Requirements of Raw Materials

Raw materials applied in products shall comply with related safety standard and/or related regulations to ensure the safety of infants and meet their nutritional needs, substances detrimental to the safety and health of infants should not be used.

Raw materials and food additives should not contain gluten.

Hydrogenated oil and fats should not be used.

Radiation-treated raw materials should not be used.

4.2 Organoleptic requirements: shall comply with specifications in Table 1

Table 1 Organoleptic Requirements

GB 10765-2010

Molecular formula: $C_6H_{13}NO_2$

Molecular weight: 131.17

B.3.3 Physical and Chemical Properties: White crystal or crystalline powder; odorless, slightly bitter taste.

B.3.4 Physical and chemical indicators: shall comply with regulations of B.3.

Table B.3 Physical and chemical indicators of L- leucine

Item	Indicator
Specific optical rotation α_m (20°C, D)	14.5~16.5
Content (by dry matter)/(%) $\geq$	98.5
Water content/(%) $\leq$	0.2
pH value	5.5~6.5
Ash content/(%) $\leq$	0.1
Lead (by Pb)/(mg/kg) $\leq$	0.3
Arsenic (by As)/(mg/kg) $\leq$	0.2

B.4 L-tyrosine

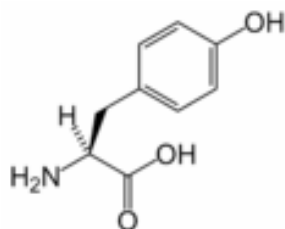
B.4.1 Name and source

Name: L-tyrosine S-amino -3 (4 - hydroxyphenyl) - propionic acid

Source: Separation from the beet wine

B.4.2 Chemical structure, molecular formula and molecular weight

Chemical structure:



Molecular formula: $C_9H_{11}NO_3$

Molecular weight: 181.19

B.4.3 Physical and Chemical Properties: This product is a white silk-like crystal or crystalline powder.

B.4.4 Physical and chemical indicators: shall comply with regulations of Table B.4.

Table B.4. Physical and chemical indicators of L-tyrosine

Item	Indicator
Specific optical rotation α_m (20°C, D)	-11.0~-12.3
Content (by dry matter)/(%) $\geq$	99.0
Water content/(%) $\leq$	0.3
pH value ^a	-

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