



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

GB 1886.229-2016

Replacing GB 1895-2004

Food additive -- Aluminum potassium sulfate

食品安全国家标准 食品添加剂 硫酸铝钾（又名钾明矾）

(English Translation)

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1 Scope

This standard applies to rear by *Lactococcus lactis* (*Lactococcus lactis subsp. lactis*) fermented extract prepared milk food additives Acid nisin.

2 Molecular formula, relative molecular mass and structural formula

Formula 2.1

C₁₄₃H₂₃₀O₃₇N₄₂S₇ (NisinA) C₁₄₁H₂₂₈O₃₈N₄₁S₇ (NisinZ)

2.2 Formula

NisinA. The first 27 amino acid histidine (His); NisinZ. The first 27 amino acid asparagine (Asn)

2.3 Relative molecular mass

NisinA. 3354.35 (according to 2013 international relative atomic mass) NisinZ. 3330.31 (according to 2013 international relative atomic mass)

3.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

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Table 1 Sensory requirements

Project requires test methods Color light brown to milky white State powder the sample is placed in the appropriate uniform white porcelain plate, observe its color under natural light

and state

3.2 Physical and Chemical Indicators

Physical and chemical indicators should be consistent with the provisions of Table 2.

Table 2. Physical and chemical indicators

Item Index Test Method Titer/(IU/mg) ≥ 900 Appendix A A.3 Loss on drying, w /% ≤ 3.0
GB 5009.3 Sodium chloride, w /% ≥ 50.0 GB/T 5009.42 Lead (Pb)/(mg/kg) ≤ 1.0 GB
5009.75 Note. The commercialization of nisin product shall comply with the standards of
nisin as a raw material, sodium chloride can be added, and other accessories made of milk
solids, in line with its potency claims.

3.3 Microbial indicators

Microbiological indicators comply with Table 3.

Table 3 microbiological indicators

Item Index Test Method CfU/(CFU/g) ≤ 10 GB 4789.2 Coliform/(MPN/g)