



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

GB 1886.70-2015

**National Food Safety Standard -- Food Additives -- Sa-son seed
gum**

食品安全国家标准 食品添加剂 沙蒿胶

(English Translation)

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1 Scope

This standard applies to Artemisia (ArtemisiaL.) Seeds as raw material extraction and processing water-swellable prepared food additive artemisia glue.

2.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

Project requires test methods Milky white or light yellow color State powder Take appropriate sample is placed in a clean, dry white porcelain dish, self Under natural light, observe its color and status

2.2 Physical indicators

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

Table 2. Physical and chemical indicators

Item Index Test Method Fineness (through a sieve aperture of 336 μ m) /% $\geq$ 90 GB/T 5507 Viscosity (1.0% solution) (20 °C) / (mPa · s) $\geq$ 600 Appendix A A.3 pH 4.0 ~ 7.5 in Appendix A A.4 Water, w /% $\leq$ 10.0 GB 5009.3 Ash, w /% $\leq$ 8.0 GB 5009.4 Starch test by test A.5 in Appendix A Protein, w /% $\leq$ 10.0 GB 5009.5 Lead (Pb)/(mg/kg) $\leq$ 3.0 GB 5009.12 Total arsenic (As)/(mg/kg) $\leq$ 3.0 GB 5009.11 Appendix A Testing method A.1 General Provisions this standard reagents and water, did not indicate when the other requirements, refer to the three water analytical reagent and GB/T 6682 regulations. test Test used in the standard solution, impurity standard solution, preparations and products, did not indicate when the other requirements, according to GB/T 601, GB/T 602 and GB/T 603 provisions prepared. Solution was used in the tests did not indicate what is formulated with solvent, it refers to an aqueous solution.

A.2 Identification Test A.2.1 Identification of the water-absorbing shaped Weigh the sample 0.5g, placed in a beaker filled with 300mL cold water of 0 °C ~ 4 °C and gently shaking the

beaker vibration surface, so that particles disperse Swelling, the formation of this product unique tough tendons creamy egg white fluff-like gel, filtered water, add a little potassium aluminum sulfate dodecahydrate, stirred extrusion should Forming a glue cotton wool fibers.

A.2.2 Infrared Spectroscopy the method according to GB/T 6040 provisions were weighed sample of about 1mg to about 100mg of potassium bromide and straight grinding in an agate mortar to mix, take a little of the mixture powder was poured into the mold with tablet is compressed into a transparent sheet (salt window), and then put the infrared light Infrared spectrometer on the scan, the scanning range $4000\text{cm}^{-1} \sim 400\text{cm}^{-1}$, to obtain its infrared transmission spectrum. An infrared spectrum of the sample

Figure with standard infrared absorption spectra of the degree of similarity in the $4000\text{cm}^{-1} \sim 400\text{cm}^{-1}$ Scope for compound characterization. red

Outside the spectrum of Appendix B in Figure B.1.

A.3 viscosity (1.0% solution) (20 deg.] C) measured A.3.1 Instruments A.3.1.1 viscometer..

A.3.1.2 tall beaker. 500mL.

A.3.1.3 water bath. Temperature accuracy $0.2\text{ }^{\circ}\text{C}$.

A.3.2 Analysis step

Weigh the dried sample 3g (accurate to 0.01g), dispersed in 300mL water, stirred for about 1h after swelling, stirring while heating to boiling, with boiling water, make up the evaporation of water, stir well, into a beaker covered with a watch glass placed in a constant temperature water bath at 6h ~ 8h $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$, according to Viscometer operating instructions viscosity measurement.

A.4 pH measurement

A.4.1 Instruments and Equipment A.4.1.1 pH meter. measuring range of 0 to 14, the minimum scale value of 0.02.

A.4.1.2 centrifuge. maximum speed of 4000r/min.

A.4.2 Analysis step

Weigh 1g (accurate to 0.01g) sample is placed in a beaker, water was added 100mL $25\text{ }^{\circ}\text{C}$, shaking 30min, to 3000r/min centrifugal 5min, the supernatant was measured by using pH.

A.5 starch test

A.5.1 Reagents and materials A.5.1.1 potassium iodide solution. Weigh 36.0g of potassium iodide was dissolved in 100mL aqueous solution.

A.5.1.2 iodine solution. Weigh 14.0g of iodine dissolved in potassium iodide solution (A.5.1.1), the shake, add 3 drops of hydrochloric acid, water to the 1000mL.

A.5.2 Analysis step

Weigh the sample 1.0g (accurate to 0.1g) in 50mL beaker, add water, 10mL, stir with a glass rod, after boiling to room temperature, add 0.1mol/L iodine solution (A.5.1.2) 2 drops, stir well, no significant blue experimentally.

Appendix B

Artemisia glue infrared spectra Artemisia glue infrared spectrum shown in Figure B.1.

Note: The sample preparation method for the potassium bromide tablet method.

Figure B.1 artemisia glue infrared spectra